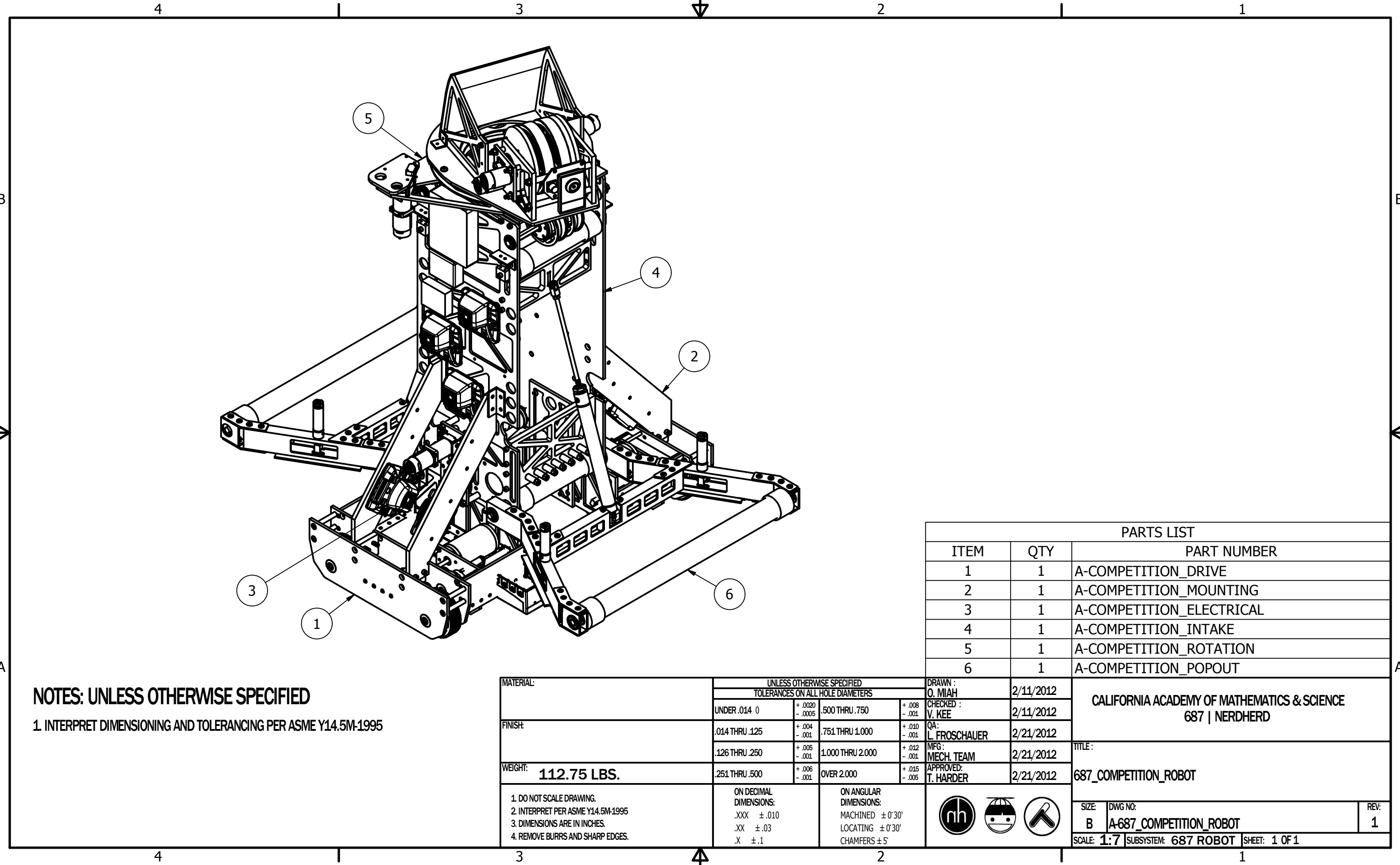
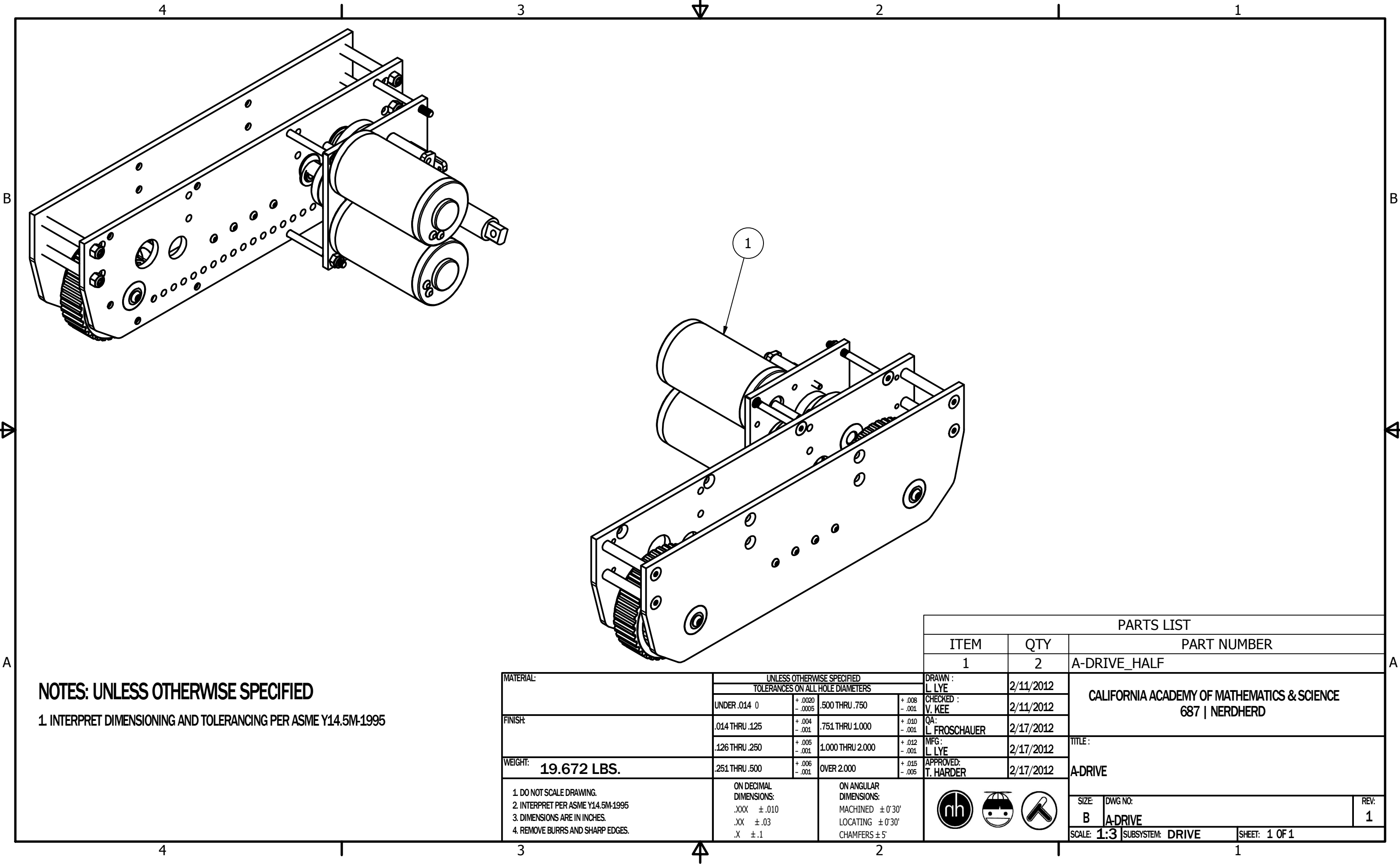




NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

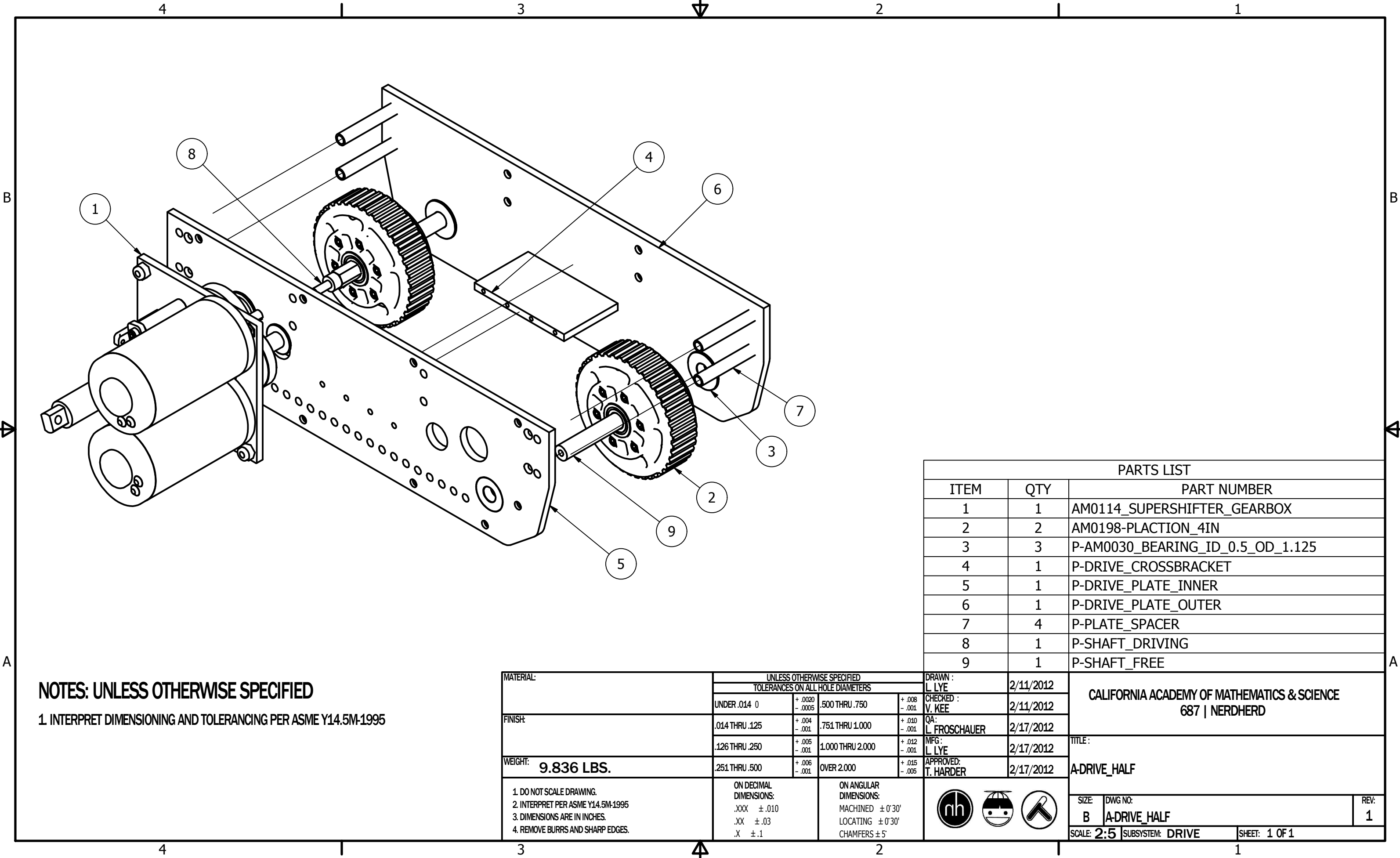
MATERIAL:	UNLESS OTHERWISE SPECIFIED				DRAWN :		CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD		
	TOLERANCES ON ALL HOLE DIAMETERS				O. MIAH	2/11/2012			
FINISH:	UNDER .014 0	+ .0020 - .0005	.500 THRU .750	+ .008 - .001	CHECKED :				
					V. KEE	2/11/2012			
	.014 THRU .125	+ .004 - .001	.751 THRU 1.000	+ .010 - .001	QA:				
					L. FROSCHAUER	2/21/2012			
	.126 THRU .250	+ .005 - .001	1.000 THRU 2.000	+ .012 - .001	MFG:				
WEIGHT:	112.75 LBS.				MECH. TEAM	2/21/2012	TITLE :		
					APPROVED:		687_COMPETITION_ROBOT		
					T. HARDER	2/21/2012			
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.	ON DECIMAL DIMENSIONS:		ON ANGULAR DIMENSIONS:		  		SIZE:	DWG NO:	REV:
	.XXX ±.010		MACHINED ±0°30'						
	.XX ±.03		LOCATING ±0°30'						
	.X ±.1		CHAMFERS ±5°						
						SCALE: 1:7	SUBSYSTEM: 687 ROBOT	SHEET: 1 OF 1	



NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

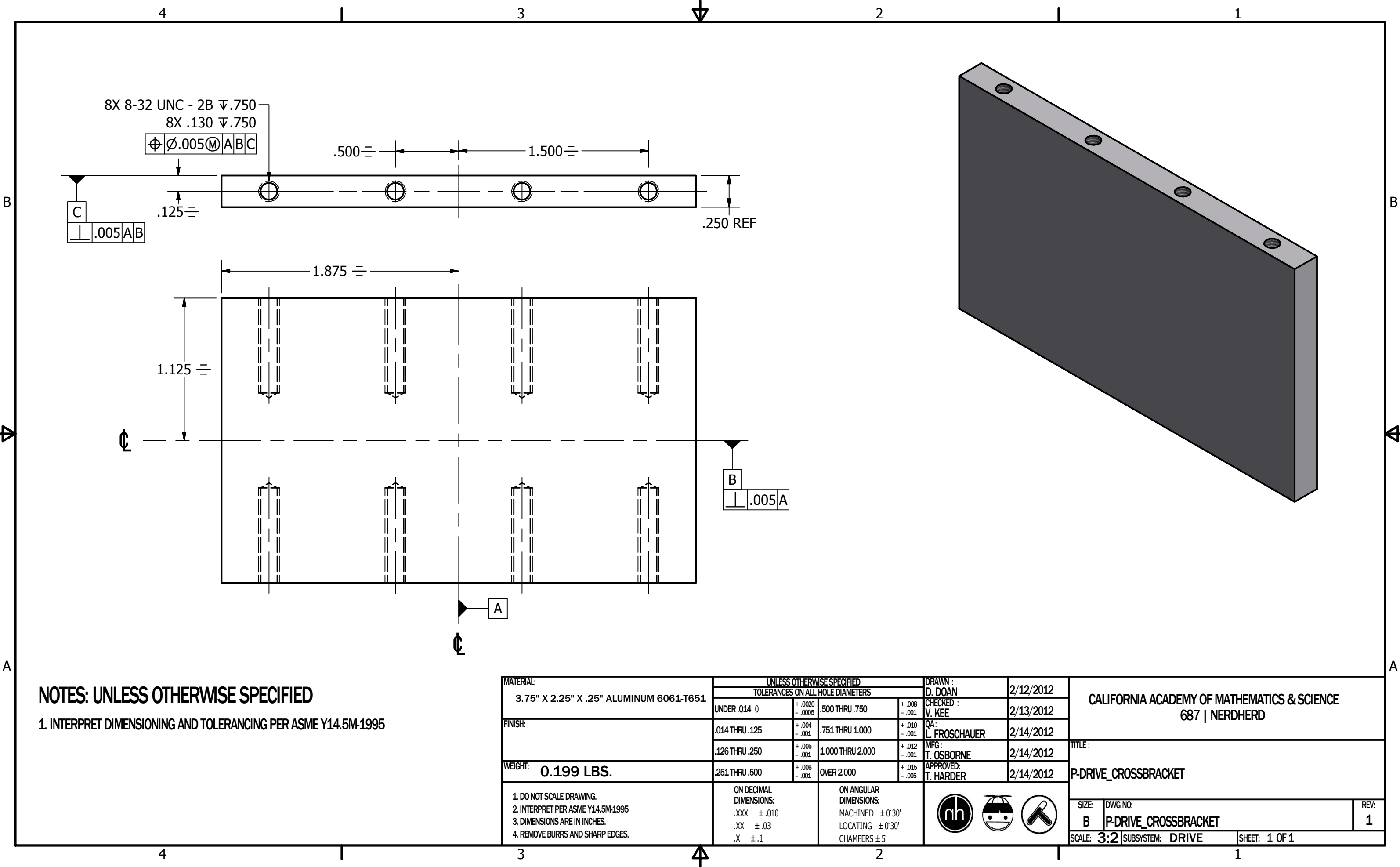
MATERIAL:		UNLESS OTHERWISE SPECIFIED				DRAWN : L. LYE		2/11/2012		CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD							
		TOLERANCES ON ALL HOLE DIAMETERS				CHECKED : V. KEE		2/11/2012									
FINISH:		UNDER .014 0		+ .0020 - .0005		.500 THRU .750		+ .008 - .001						QA: L. FROSCHAUER		2/17/2012	
		.014 THRU .125		+ .004 - .001		.751 THRU 1.000		+ .010 - .001		MFG: L. LYE		2/17/2012					
WEIGHT: 19.672 LBS.		.126 THRU .250		+ .005 - .001		1.000 THRU 2.000		+ .012 - .001		APPROVED: T. HARDER		2/17/2012		TITLE : A-DRIVE			
		.251 THRU .500		+ .006 - .001		OVER 2.000		+ .015 - .005									
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DECIMAL DIMENSIONS: .XXX ±.010 .XX ±.03 .X ±.1				ON ANGULAR DIMENSIONS: MACHINED ±0°30' LOCATING ±0°30' CHAMFERS ±5°				  							
										SIZE: B		DWG NO: A-DRIVE				REV: 1	
										SCALE: 1:3		SUBSYSTEM: DRIVE				SHEET: 1 OF 1	



NOTES: UNLESS OTHERWISE SPECIFIED

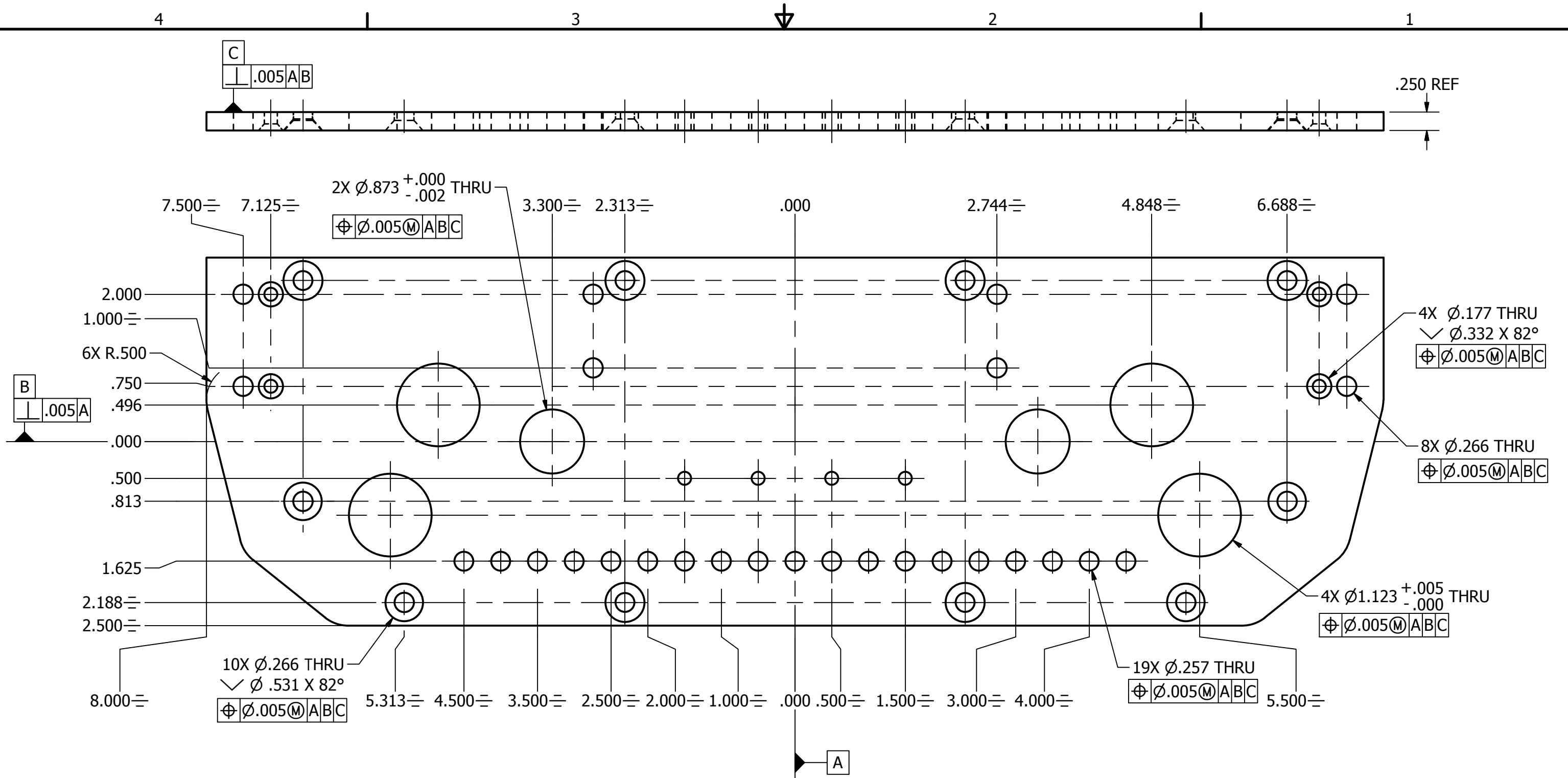
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

MATERIAL:		UNLESS OTHERWISE SPECIFIED				DRAWN : L. LYE		2/11/2012		CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD							
		TOLERANCES ON ALL HOLE DIAMETERS				CHECKED : V. KEE		2/11/2012									
FINISH:		UNDER .014 0		+.0020 -.0005		.500 THRU .750		+.008 -.001						QA: L. FROSCHAUER		2/17/2012	
		.014 THRU .125		+.004 -.001		.751 THRU 1.000		+.010 -.001		MFG: L. LYE		2/17/2012					
WEIGHT: 9.836 LBS.		.126 THRU .250		+.005 -.001		1.000 THRU 2.000		+.012 -.001		APPROVED: T. HARDER		2/17/2012		TITLE : A-DRIVE_HALF			
		.251 THRU .500		+.006 -.001		OVER 2.000		+.015 -.005									
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DECIMAL DIMENSIONS: .XXX ±.010 .XX ±.03 .X ±.1		ON ANGULAR DIMENSIONS: MACHINED ±0°30' LOCATING ±0°30' CHAMFERS ±5°		  		SIZE:		DWG NO:				REV:			
								B		A-DRIVE_HALF				1			
								SCALE: 2:5		SUBSYSTEM: DRIVE				SHEET: 1 OF 1			



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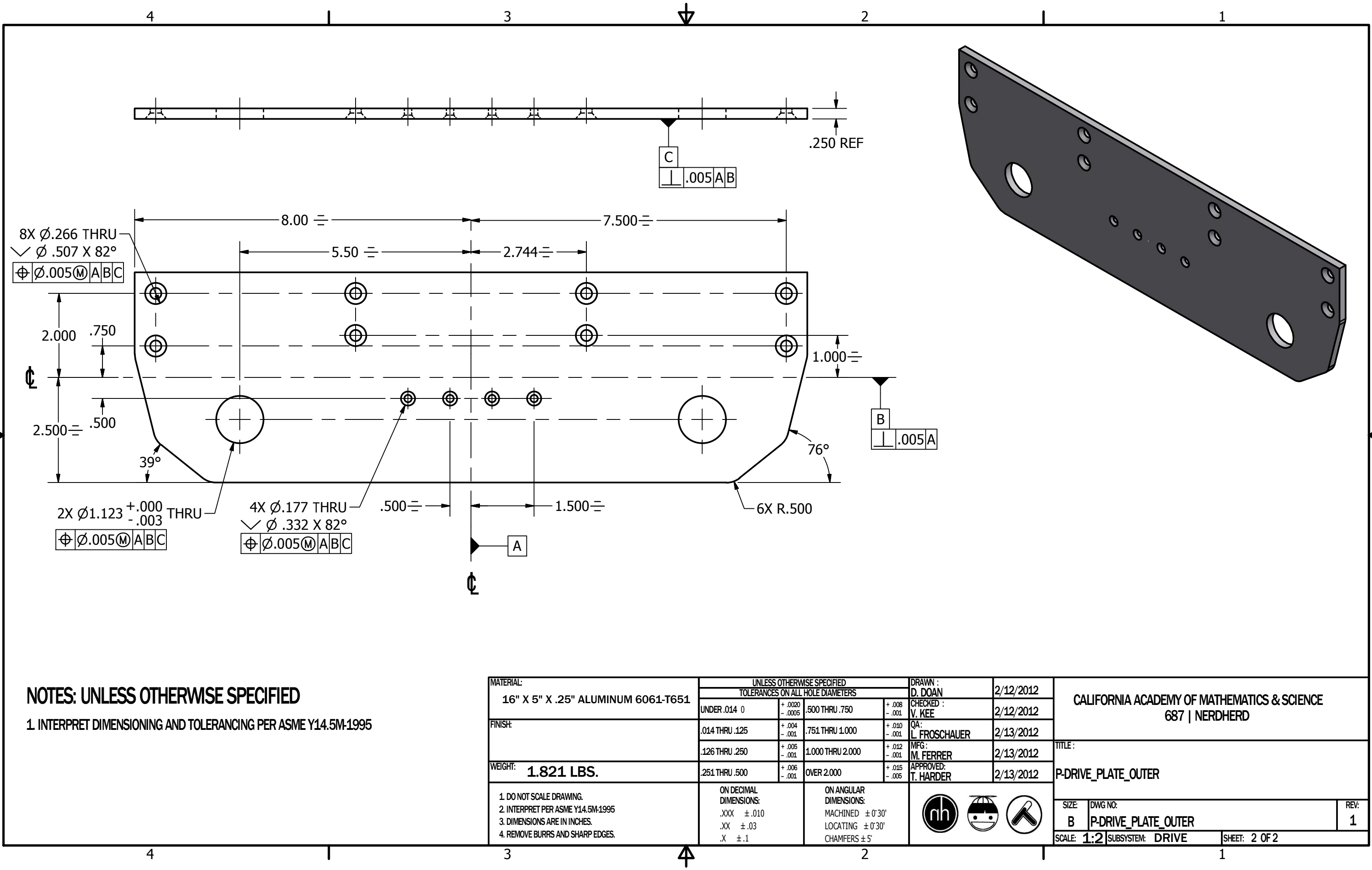


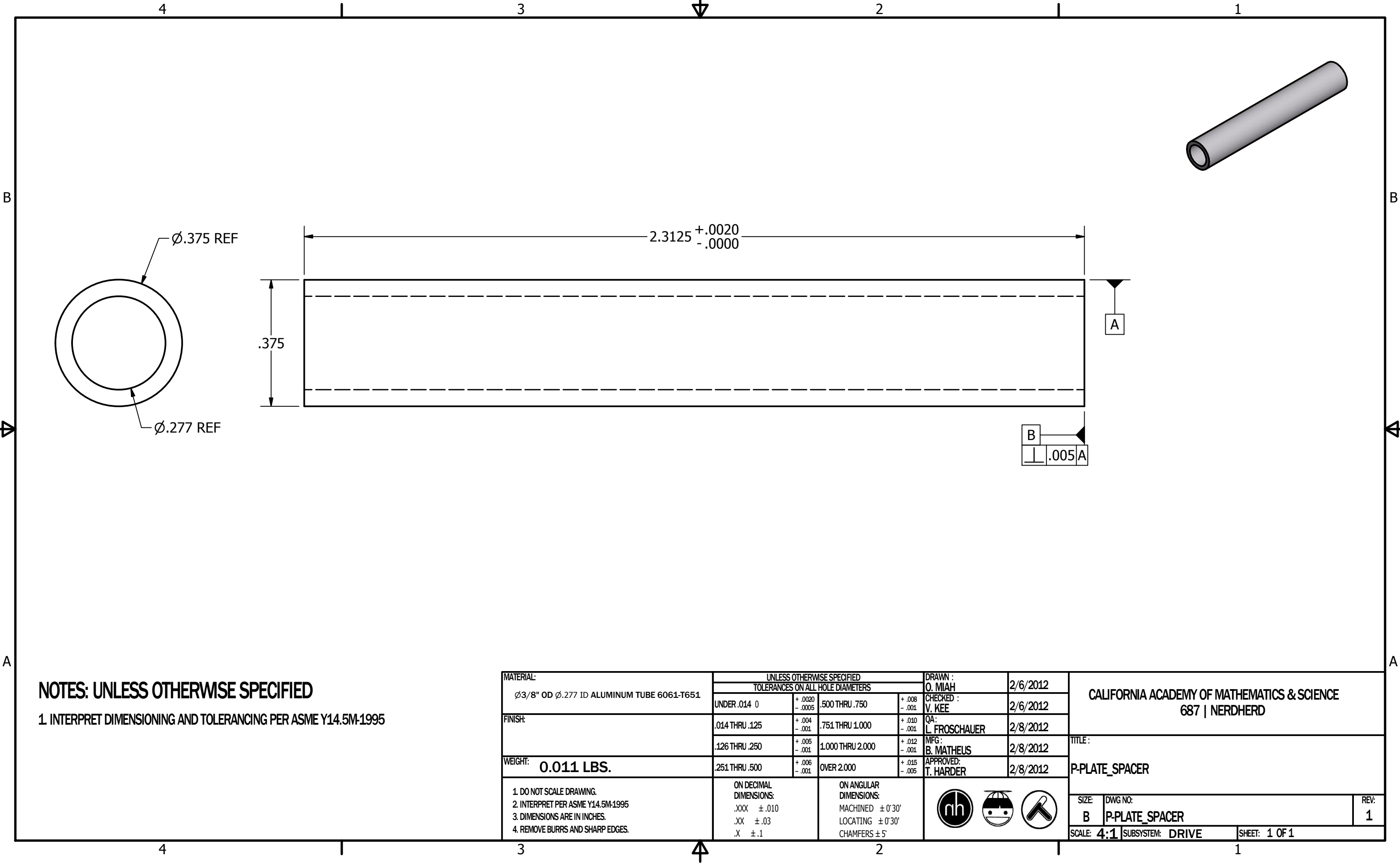
NOTES: UNLESS OTHERWISE SPECIFIED
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

MATERIAL: 16" X 5" X .25" ALUMINUM 6061-T651	UNLESS OTHERWISE SPECIFIED TOLERANCES ON ALL HOLE DIAMETERS				DRAWN : O. MIAH	2/8/2012	CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD		
	UNDER .014 0	+ .0020 - .0005	.500 THRU .750	+ .008 - .001	CHECKED : V. KEE	2/8/2012			
	.014 THRU .125	+ .004 - .001	.751 THRU 1.000	+ .010 - .001	QA: L. FROSCHAUER	2/10/2012	TITLE: P-DRIVE_PLATE_INNER		
	.126 THRU .250	+ .005 - .001	1.000 THRU 2.000	+ .012 - .001	MFG: M. FERRER	2/10/2012			
WEIGHT: 1.688 LBS.	.251 THRU .500	+ .006 - .001	OVER 2.000	+ .015 - .005	APPROVED: T. HARDER	2/10/2012	SIZE: B DWG NO: P-DRIVE_PLATE_INNER SCALE: 3:4 SUBSYSTEM: DRIVE SHEET: 1 OF 1		
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.	ON DECIMAL DIMENSIONS: .XXX ±.010 .XX ±.03 .X ±.1		ON ANGULAR DIMENSIONS: MACHINED ±0°30' LOCATING ±0°30' CHAMFERS ±5°						REV: 1

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NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

4 3 2 1

B

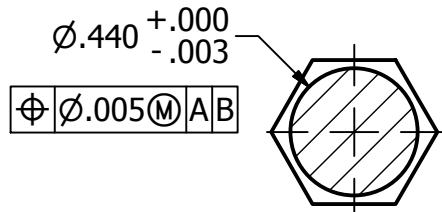
A

A

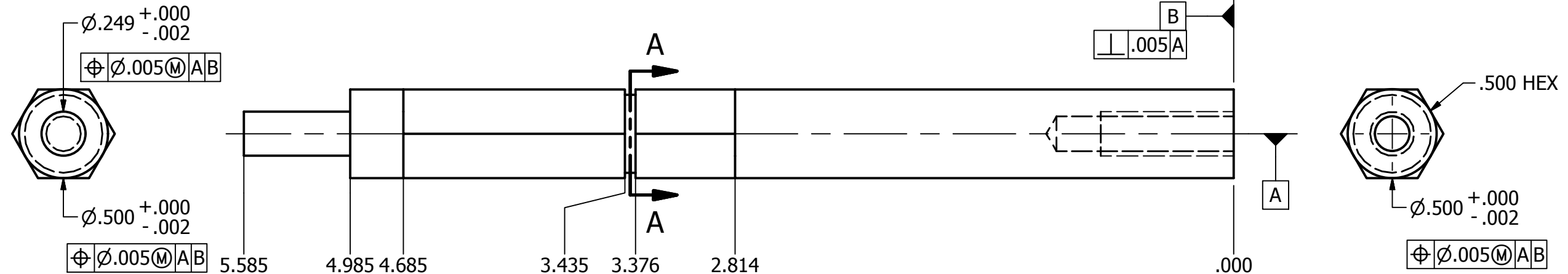
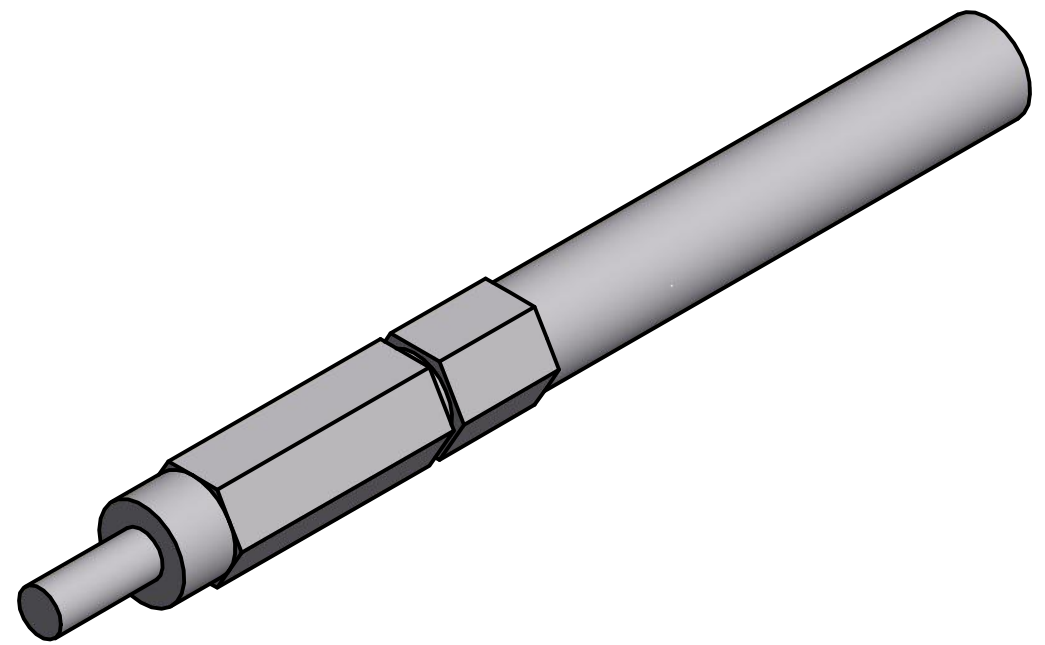
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A



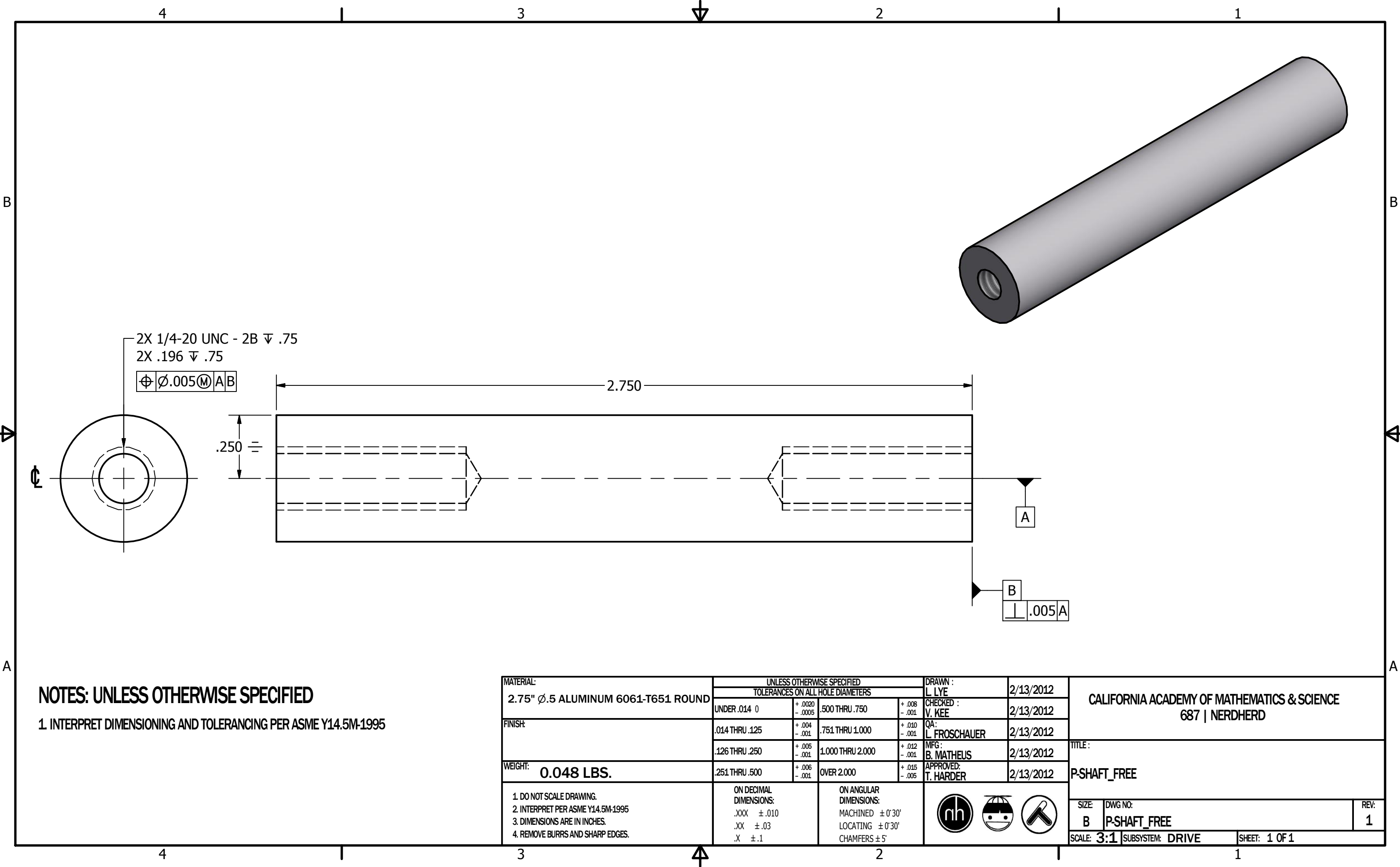
SECTION A-A
SCALE 3:2

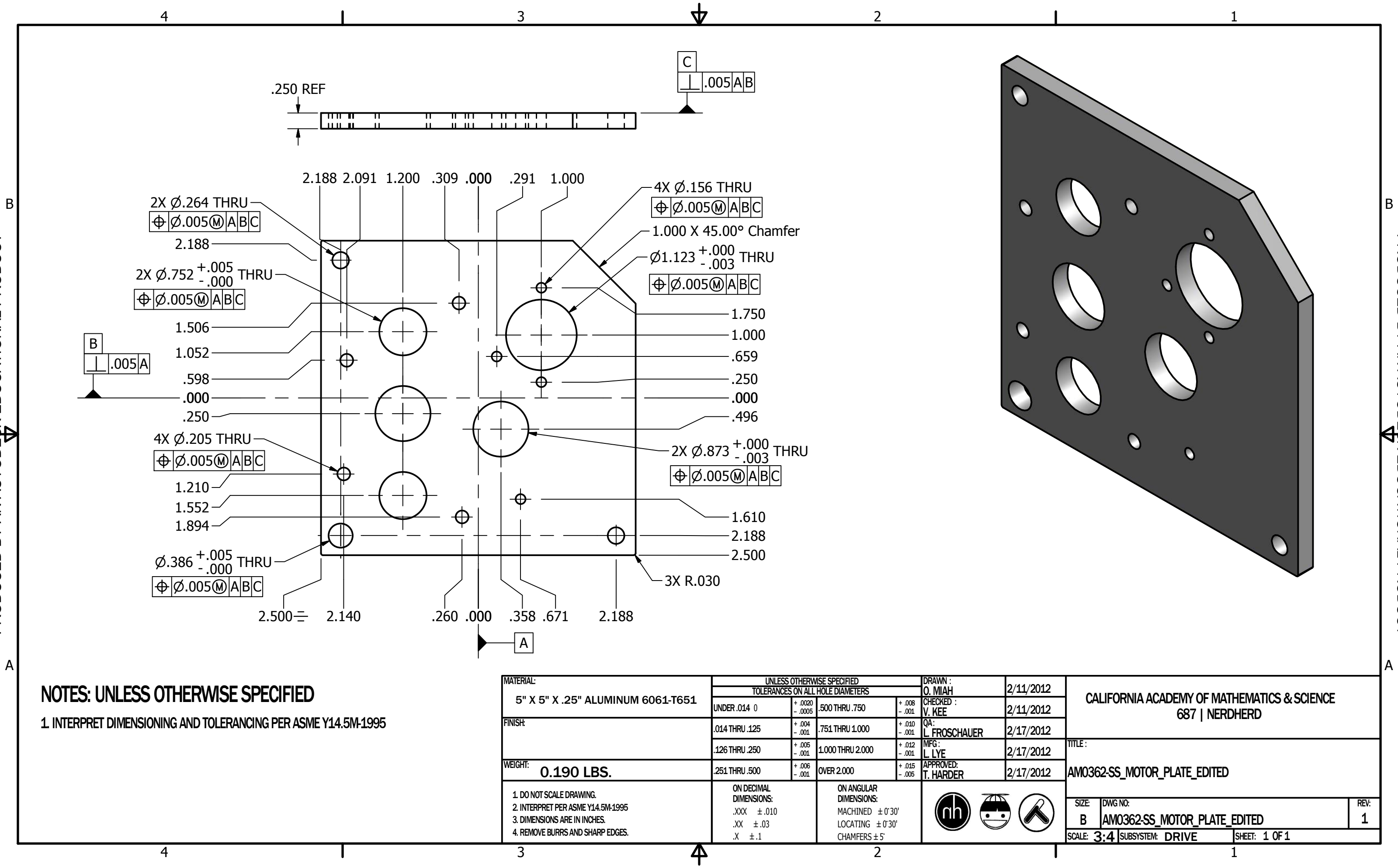


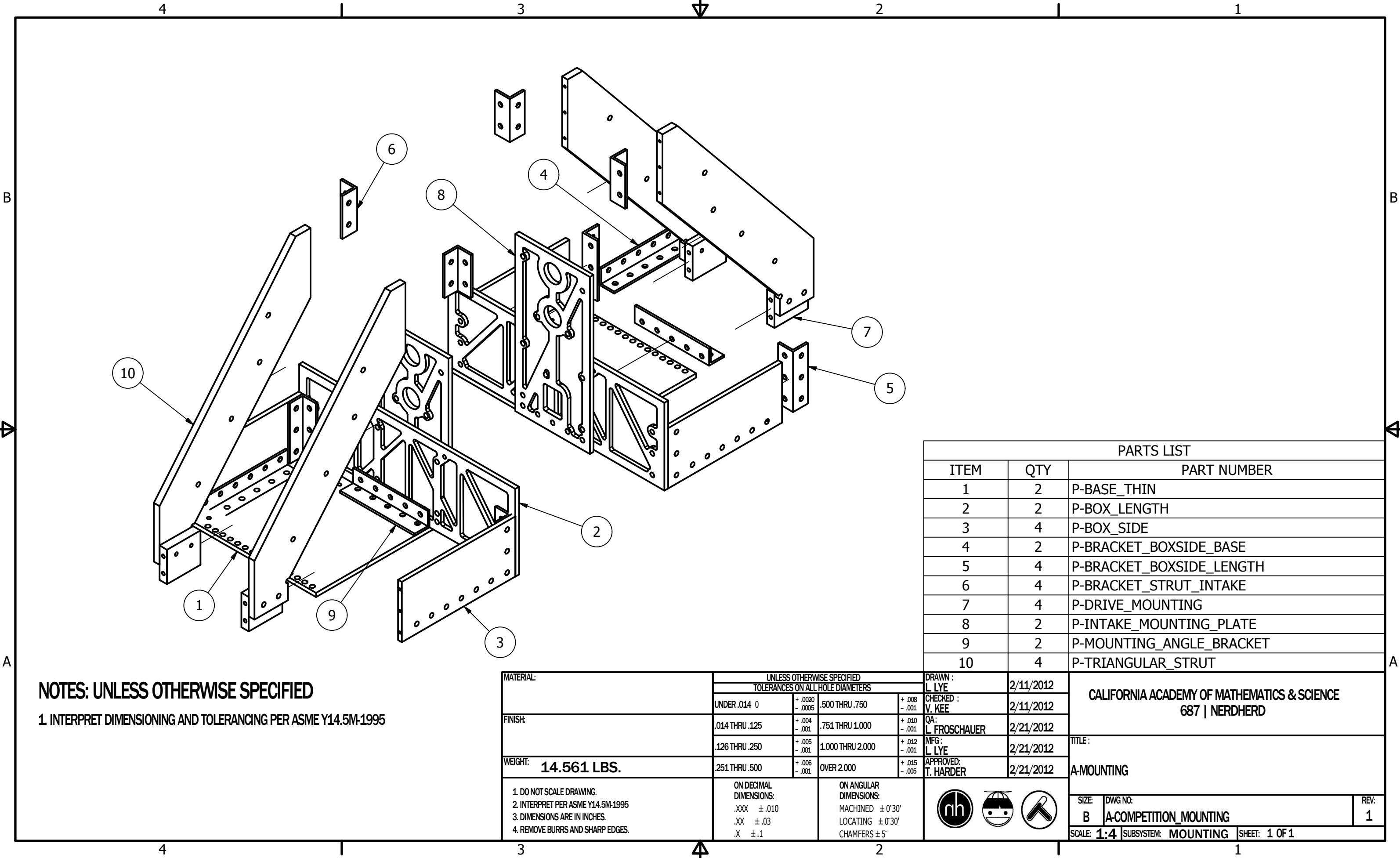
NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

MATERIAL: 6" ALUMINUM 6061-T651 1/2" HEX		UNLESS OTHERWISE SPECIFIED				DRAWN : O. MIAH		2/13/2012		CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD			
		TOLERANCES ON ALL HOLE DIAMETERS				CHECKED : V. KEE		2/13/2012					
FINISH:		UNDER .014 0	+ .0020 - .0005	.500 THRU .750	+ .008 - .001	QA: L. FROSCHAUER		2/13/2012		TITLE : P-SHAFT_DRIVING			
		.014 THRU .125	+ .004 - .001	.751 THRU 1.000	+ .010 - .001	MFG : B. MATHEUS		2/13/2012					
WEIGHT: 0.099 LBS.		.251 THRU .500	+ .006 - .001	OVER 2.000	+ .015 - .005	APPROVED: T. HARDER		2/13/2012					
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DECIMAL DIMENSIONS: .XXX ±.010 .XX ±.03 .X ±.1		ON ANGULAR DIMENSIONS: MACHINED ±0°30' LOCATING ±0°30' CHAMFERS ±5°		  							
								SIZE: B		DWG NO: P-SHAFT_DRIVING		REV: 1	
								SCALE: 3:2		SUBSYSTEM: DRIVE		SHEET: 1 OF 1	







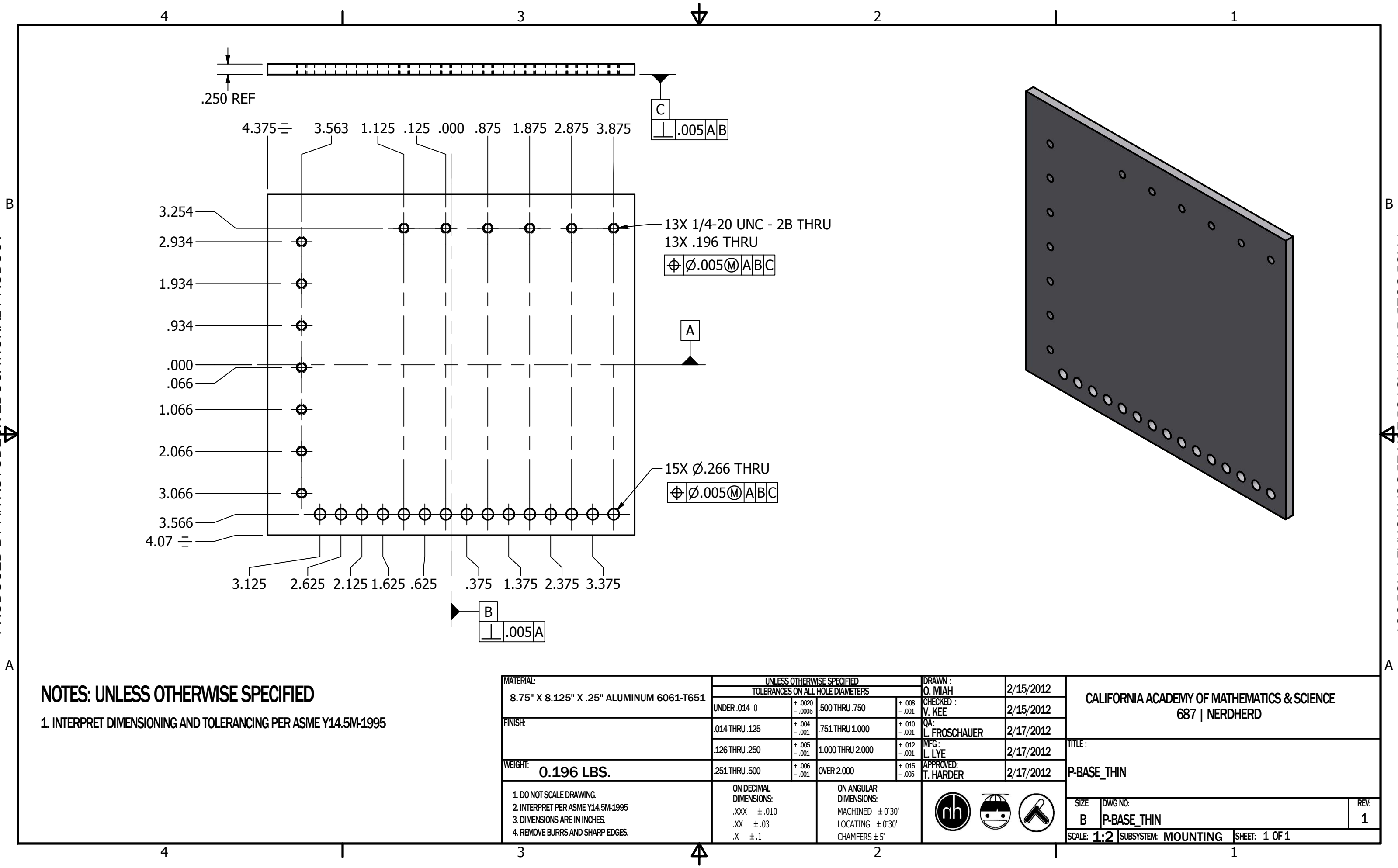
NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

MATERIAL:	UNLESS OTHERWISE SPECIFIED				DRAWN :	2/11/2012	CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD		
	TOLERANCES ON ALL HOLE DIAMETERS				L. LYE	2/11/2012			
FINISH:	UNDER .014 0	+ .0020 - .0005	.500 THRU .750	+ .008 - .001	CHECKED :	2/11/2012	TITLE :		
	.014 THRU .125	+ .004 - .001	.751 THRU 1.000	+ .010 - .001	V. KEE	2/21/2012			
WEIGHT:	.126 THRU .250	+ .005 - .001	1.000 THRU 2.000	+ .012 - .001	QA:	2/21/2012	A-MOUNTING		
	.251 THRU .500	+ .006 - .001	OVER 2.000	+ .015 - .005	L. FROSCHAUER	2/21/2012			
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DECIMAL DIMENSIONS:		ON ANGULAR DIMENSIONS:		  			
		.XXX ± .010 .XX ± .03 .X ± .1		MACHINED ± 0°30' LOCATING ± 0°30' CHAMFERS ± 5°					
						SIZE: B DWG NO: A-COMPETITION_MOUNTING REV: 1			
						SCALE: 1:4 SUBSYSTEM: MOUNTING SHEET: 1 OF 1			

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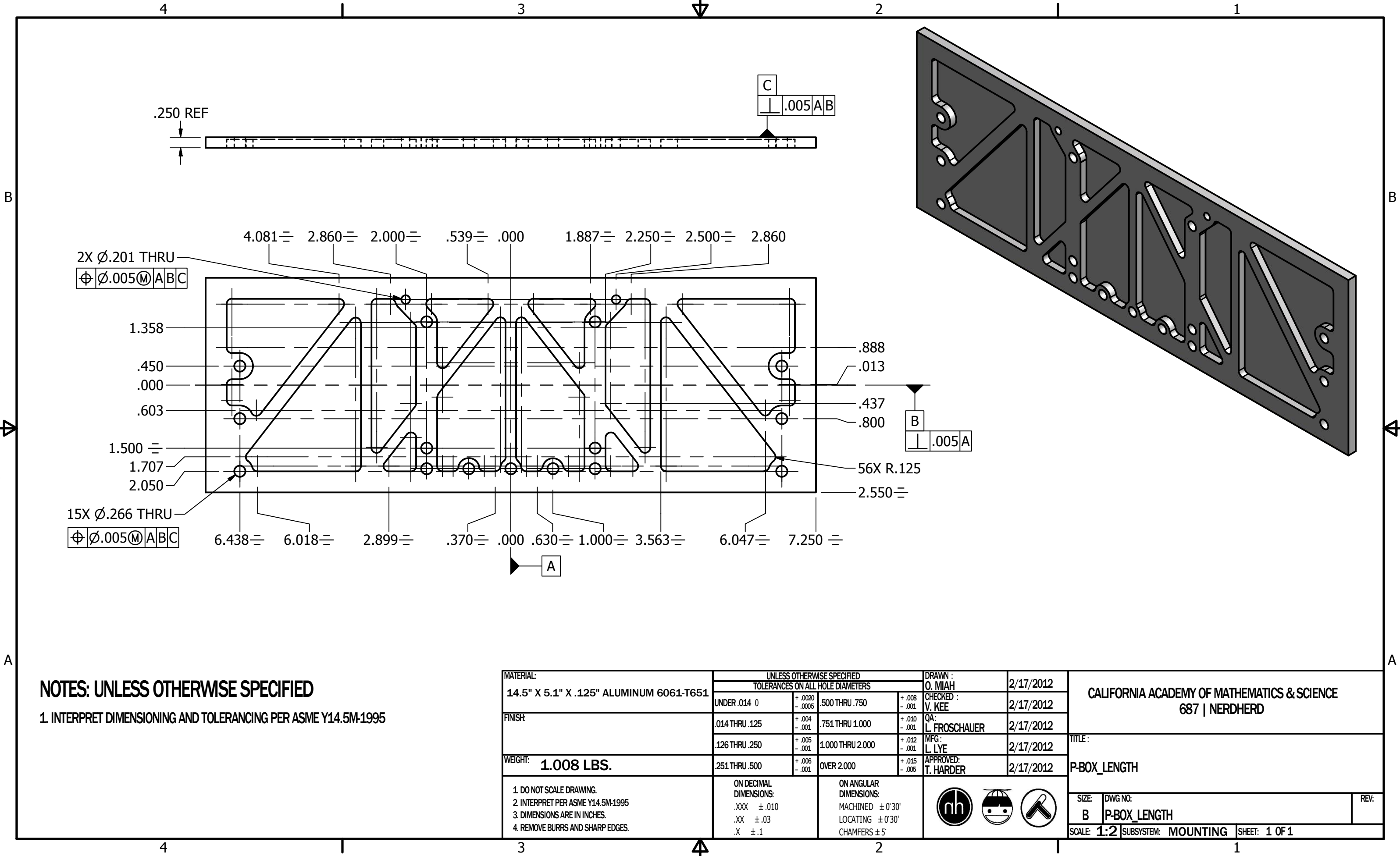
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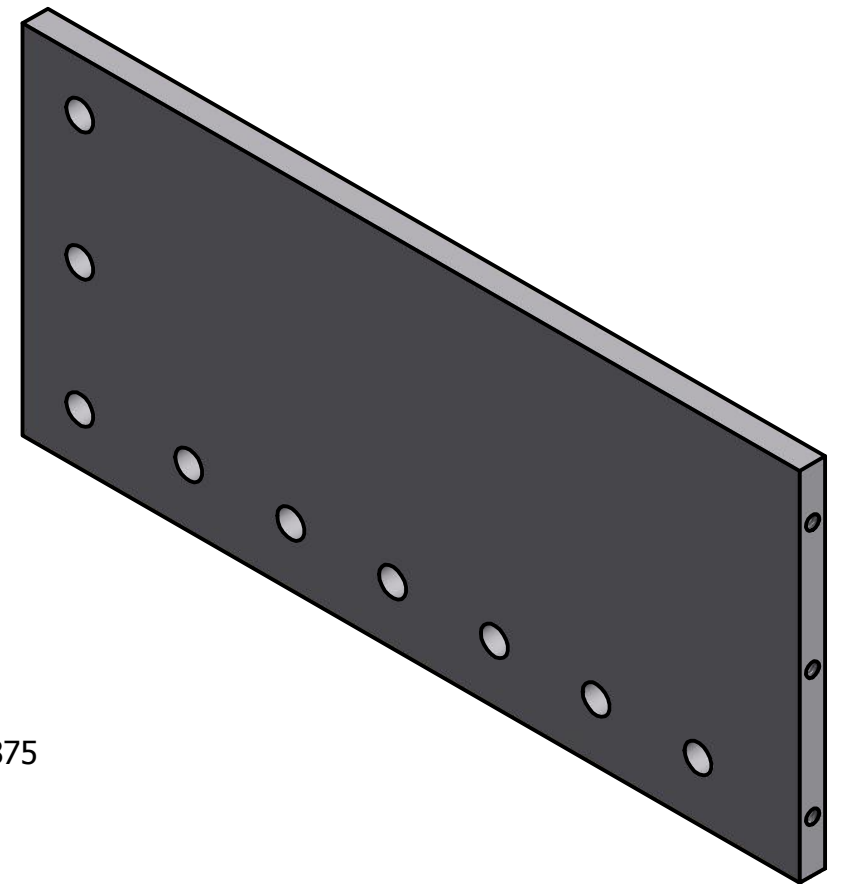


NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

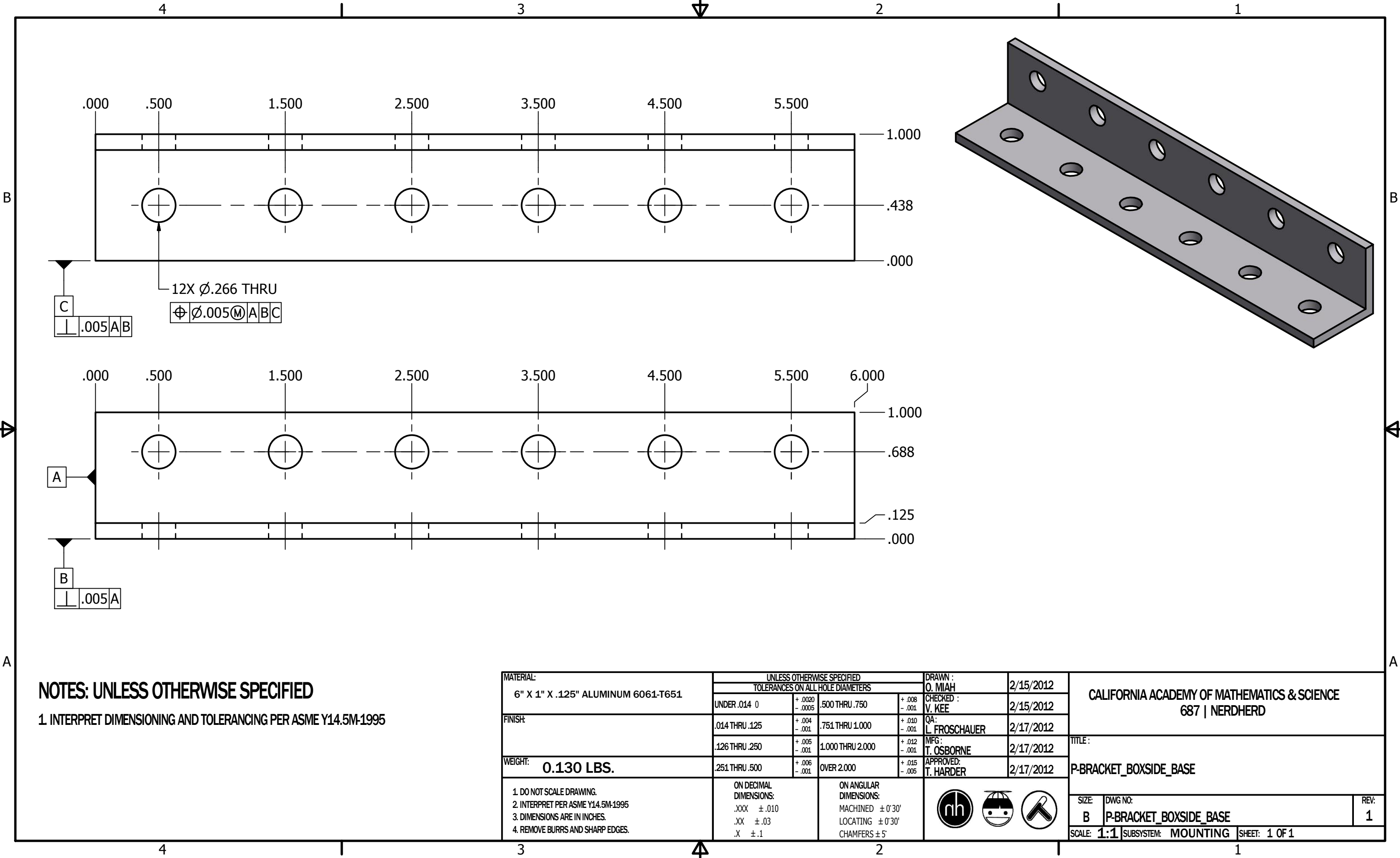
MATERIAL: 8.75" X 8.125" X .25" ALUMINUM 6061-T651		UNLESS OTHERWISE SPECIFIED				DRAWN : O. MIAH		2/15/2012		CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD			
		TOLERANCES ON ALL HOLE DIAMETERS				CHECKED : V. KEE		2/15/2012					
FINISH:		UNDER .014 0	+ .0020 - .0005	.500 THRU .750	+ .008 - .001	QA: L. FROSCHAUER		2/17/2012		TITLE : P-BASE_THIN			
		.014 THRU .125	+ .004 - .001	.751 THRU 1.000	+ .010 - .001	MFG: L. LYE		2/17/2012					
WEIGHT: 0.196 LBS.		.251 THRU .500	+ .006 - .001	OVER 2.000	+ .015 - .005	APPROVED: T. HARDER		2/17/2012					
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DECIMAL DIMENSIONS: .XXX ±.010 .XX ±.03 .X ±.1		ON ANGULAR DIMENSIONS: MACHINED ± 0°30' LOCATING ± 0°30' CHAMFERS ± 5°		  		SIZE: B		DWG NO: P-BASE_THIN		REV: 1	
								SCALE: 1:2		SUBSYSTEM: MOUNTING		SHEET: 1 OF 1	

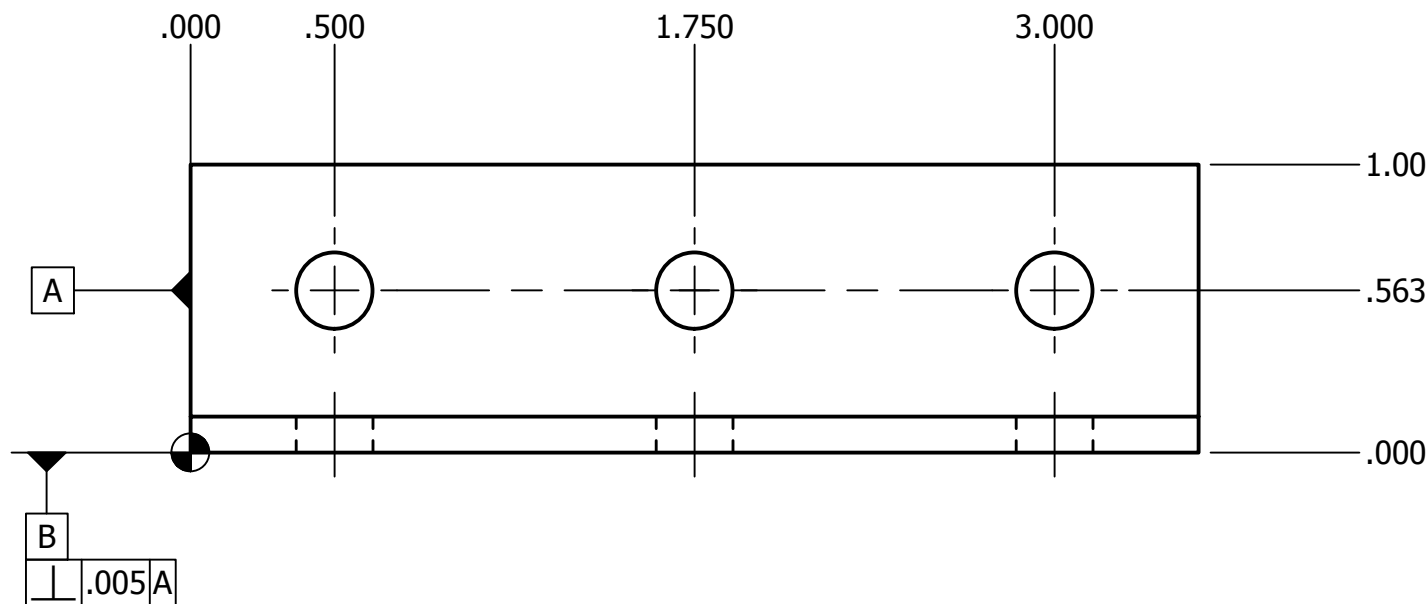
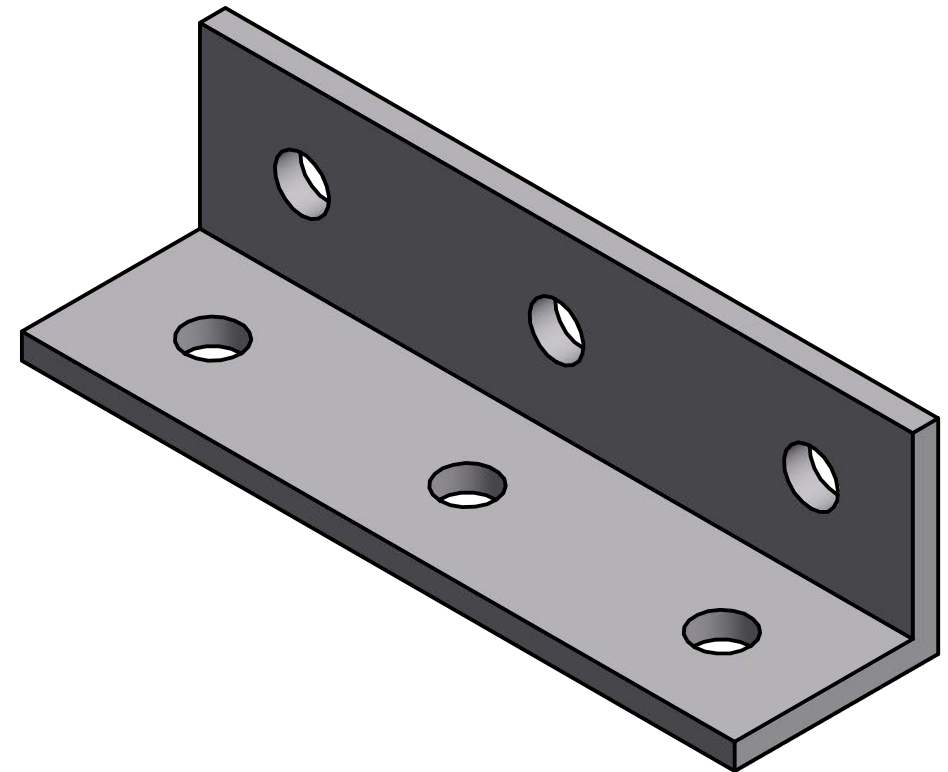




1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

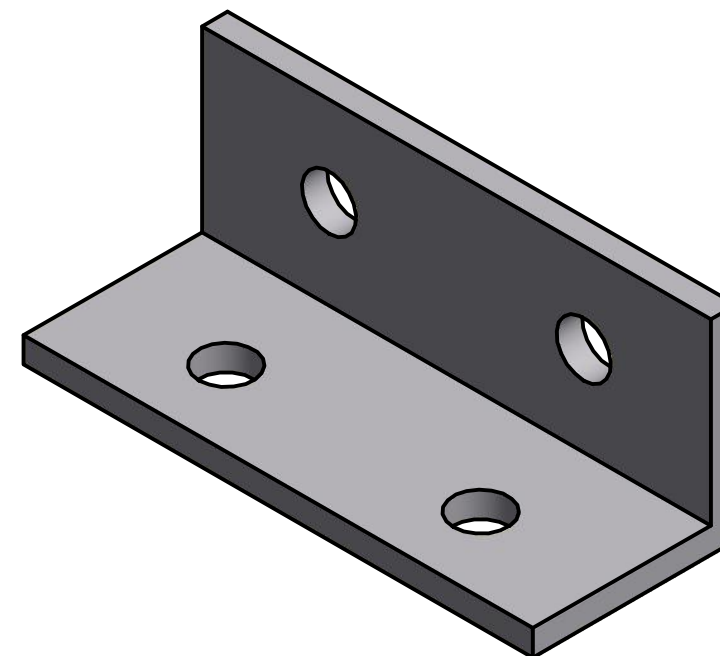
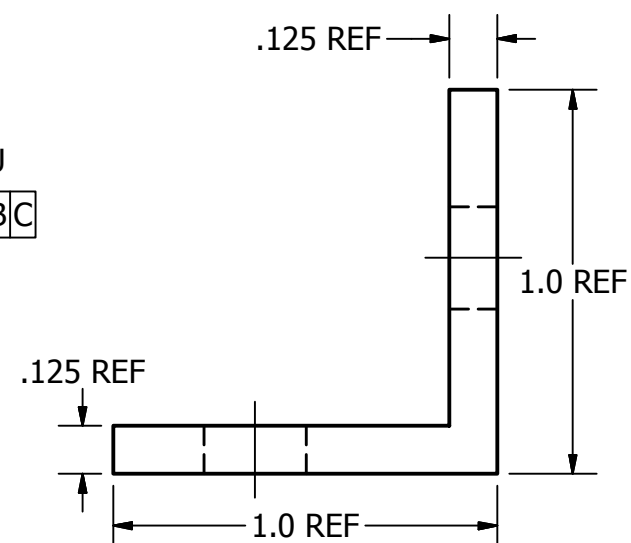
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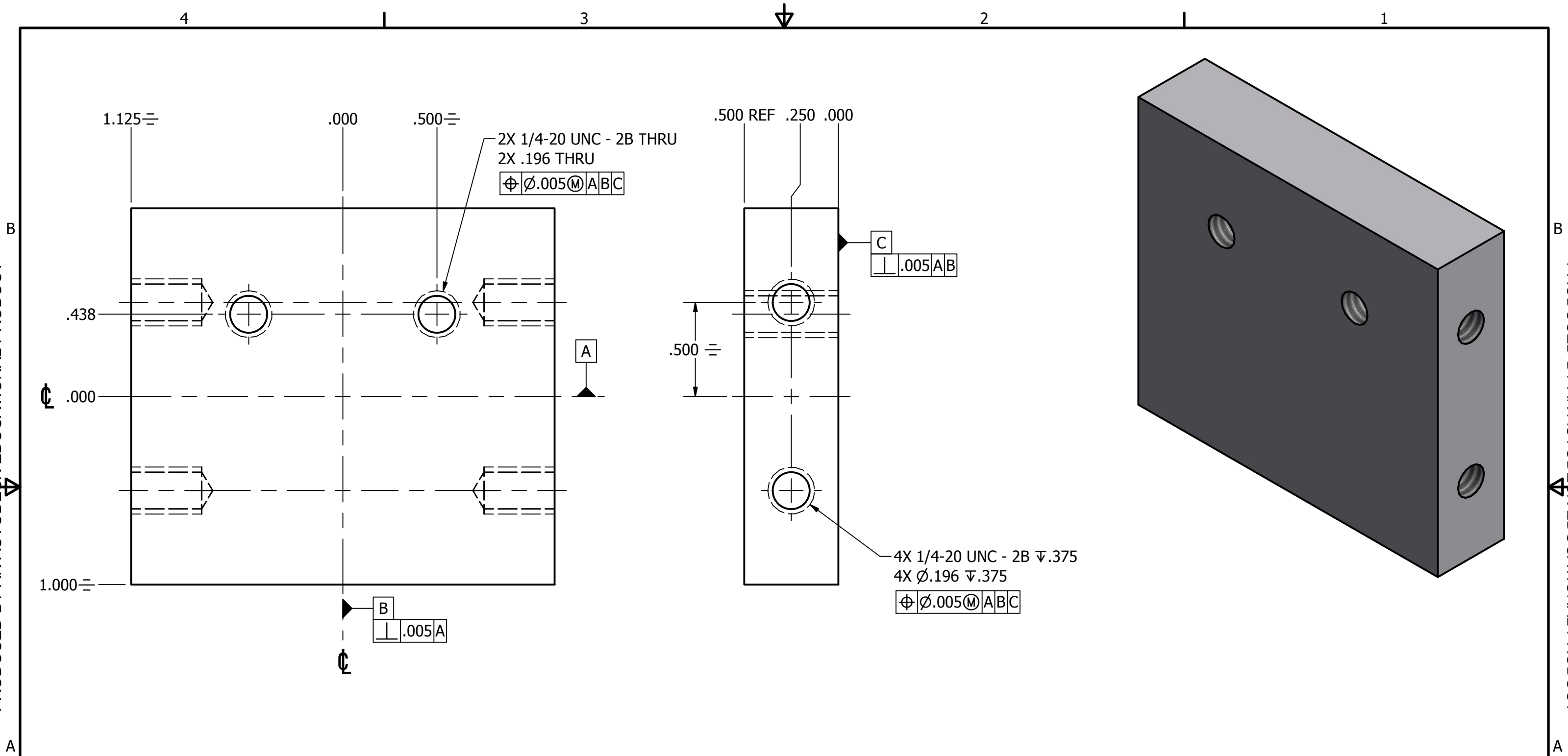
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

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PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT



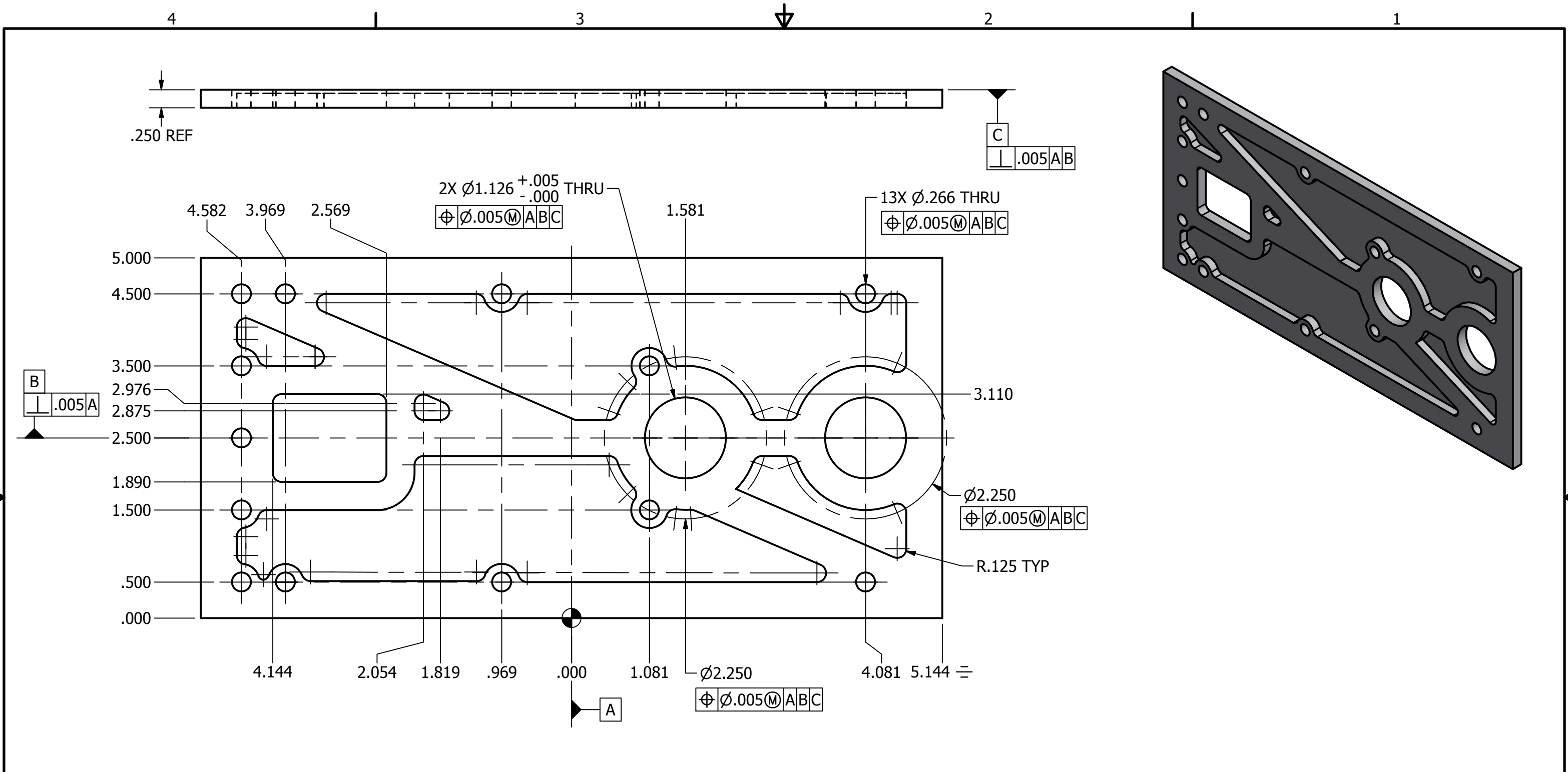
NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

MATERIAL: 2.5" X 2" X .25" ALUMINUM 6061-T651		UNLESS OTHERWISE SPECIFIED				DRAWN : O. MIAH		2/12/2012		CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD							
		TOLERANCES ON ALL HOLE DIAMETERS				CHECKED : V. KEE		2/12/2012									
FINISH:		UNDER .014 0		+ .0020 - .0005		.500 THRU .750		+ .008 - .001		QA: L. FROSCHAUER		2/13/2012		TITLE : P-DRIVE_MOUNTING			
		.014 THRU .125		+ .004 - .001		.751 THRU 1.000		+ .010 - .001		MFG: T. OSBORNE		2/13/2012					
WEIGHT: 0.213 LBS.		.126 THRU .250		+ .005 - .001		1.000 THRU 2.000		+ .012 - .001		APPROVED: T. HARDER		2/13/2012		SIZE: DWG NO: REV: B P-DRIVE_MOUNTING 1			
		.251 THRU .500		+ .006 - .001		OVER 2.000		+ .015 - .005									
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DECIMAL DIMENSIONS: .XXX ±.010 .XX ±.03 .X ±.1				ON ANGULAR DIMENSIONS: MACHINED ±0°30' LOCATING ±0°30' CHAMFERS ±5°				  							
										SCALE: 2:1 SUBSYSTEM: MOUNTING SHEET: 1 OF 1							

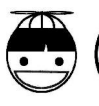
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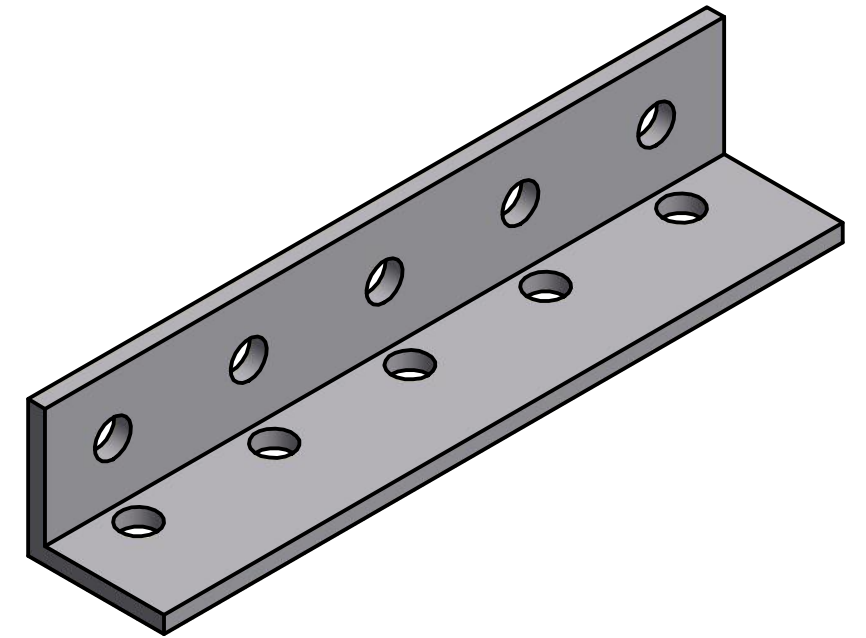
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NOTES: UNLESS OTHERWISE SPECIFIED

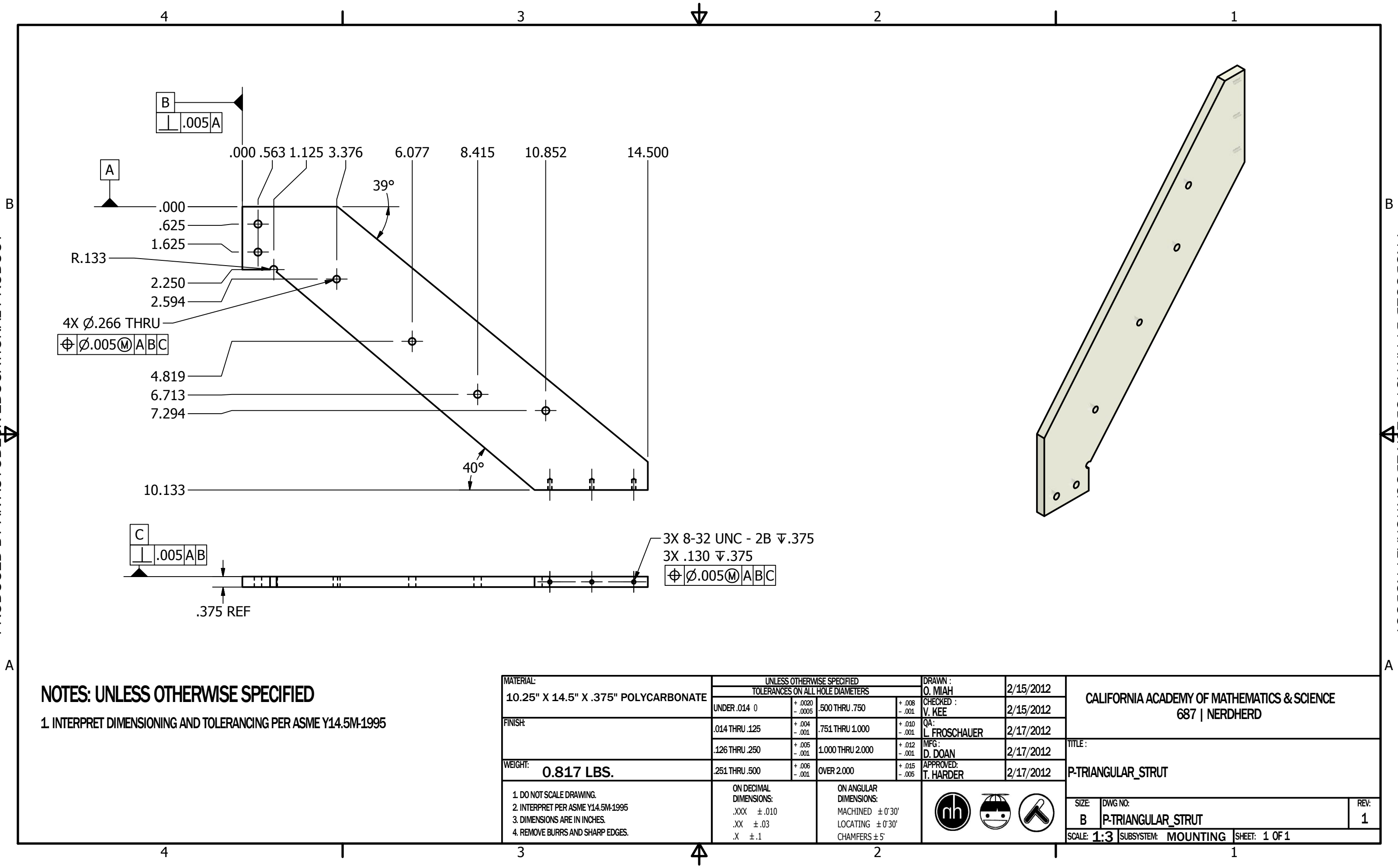
- 1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995
- 2. RIBBING BETWEEN POCKETS AND THE EDGE OF THE PART ARE .500 THK
- 3. RIBBING BETWEEN HOLES ARE .250 THK

MATERIAL: 10.3" X 5" X .25" ALUMINUM 6061-T651	UNLESS OTHERWISE SPECIFIED TOLERANCES ON ALL HOLE DIAMETERS				DRAWN : O. MIAH	2/15/2012	CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD		
	UNDER .014 0	+ .0020 - .0005	.500 THRU .750	+ .008 - .001	CHECKED : V. KEE	2/15/2012			
	.014 THRU .125	+ .004 - .001	.751 THRU 1.000	+ .010 - .001	QA: L. FROSCHAUER	2/17/2012	TITLE: P-INTAKE_MOUNTING_PLATE		
	.126 THRU .250	+ .005 - .001	1.000 THRU 2.000	+ .012 - .001	MFG: L. LYE	2/17/2012			
WEIGHT: 0.749 LBS.	.251 THRU .500	+ .006 - .001	OVER 2.000	+ .015 - .005	APPROVED: T. HARDER	2/17/2012	SIZE: B DWG NO: P-INTAKE_MOUNTING_PLATE SCALE: 3:4 SUBSYSTEM: MOUNTING SHEET: 1 OF 1		
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.	ON DECIMAL DIMENSIONS: .XXX ±.010 .XX ±.03 .X ±.1		ON ANGULAR DIMENSIONS: MACHINED ±0°30' LOCATING ±0°30' CHAMFERS ±5°		  				REV: 1



1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

MATERIAL:		UNLESS OTHERWISE SPECIFIED				DRAWN :		CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD		
5" 1" X 1" .125" THK ALUMINUM 6061-T651		TOLERANCES ON ALL HOLE DIAMETERS				O. MIAH				2/11/2012
FINISH:		UNDER .014 0	+ .0020 - .0005	.500 THRU .750	+ .008 - .001	CHECKED : V. KEE	2/11/2012			
		.014 THRU .125	+ .004 - .001	.751 THRU 1.000	+ .010 - .001	QA: L. FROSCHAUER	2/11/2012			
		.126 THRU .250	+ .005 - .001	1.000 THRU 2.000	+ .012 - .001	MFG : T. OSBORNE	2/11/2012			
WEIGHT: 0.108 LBS.		.251 THRU .500	+ .006 - .001	OVER 2.000	+ .015 - .005	APPROVED: T. HARDER	2/11/2012	TITLE : P-MOUNTING_ANGLE_BRACKET		
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DECIMAL DIMENSIONS: .XXX ± .010 .XX ± .03 .X ± .1		ON ANGULAR DIMENSIONS: MACHINED ± 0°30' LOCATING ± 0°30' CHAMFERS ± 5°		  		SIZE: DWG NO: REV: B P-MOUNTING_ANGLE_BRACKET 1		
								SCALE: 3:2 SUBSYSTEM: MOUNTING SHEET: 1 OF 1		

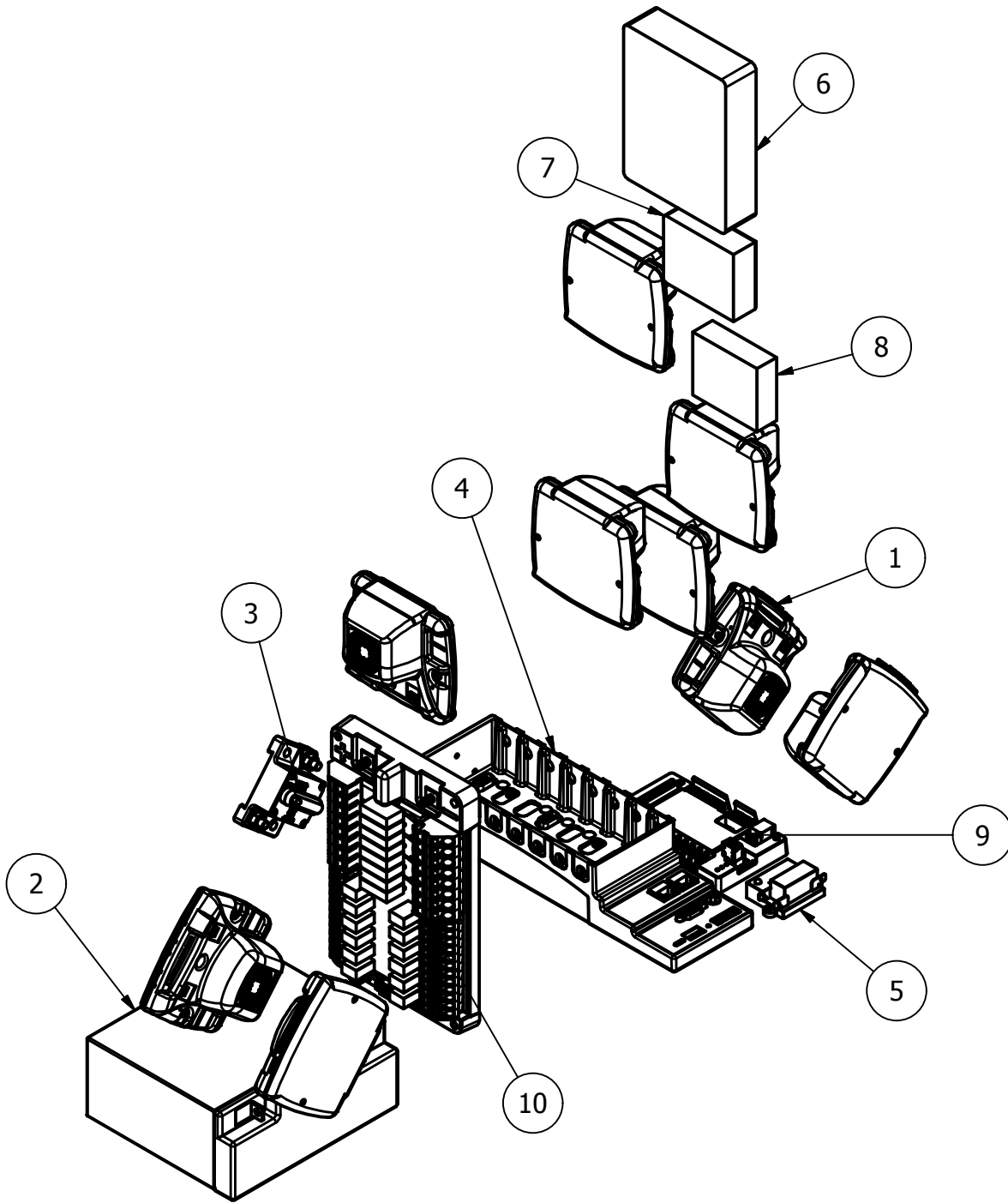


NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

MATERIAL: 10.25" X 14.5" X .375" POLYCARBONATE		UNLESS OTHERWISE SPECIFIED				DRAWN : O. MIAH		2/15/2012		CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD					
		TOLERANCES ON ALL HOLE DIAMETERS				CHECKED : V. KEE								2/15/2012	
FINISH:		UNDER .014 0		+ .0020 - .0005		.500 THRU .750		+ .008 - .001						QA: L. FROSCHAUER	
		.014 THRU .125		+ .004 - .001		.751 THRU 1.000		+ .010 - .001		MFG: D. DOAN		2/17/2012			
WEIGHT: 0.817 LBS.		.126 THRU .250		+ .005 - .001		1.000 THRU 2.000		+ .012 - .001		APPROVED: T. HARDER		2/17/2012		TITLE : P-TRIANGULAR_STRUT	
		.251 THRU .500		+ .006 - .001		OVER 2.000		+ .015 - .005							
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DECIMAL DIMENSIONS: .XXX ±.010 .XX ±.03 .X ±.1		ON ANGULAR DIMENSIONS: MACHINED ± 0°30' LOCATING ± 0°30' CHAMFERS ± 5°		  		SIZE: DWG NO: REV: B P-TRIANGULAR_STRUT 1							
								SCALE: 1:3 SUBSYSTEM: MOUNTING SHEET: 1 OF 1							

4 3 2 1



NOTES: UNLESS OTHERWISE SPECIFIED

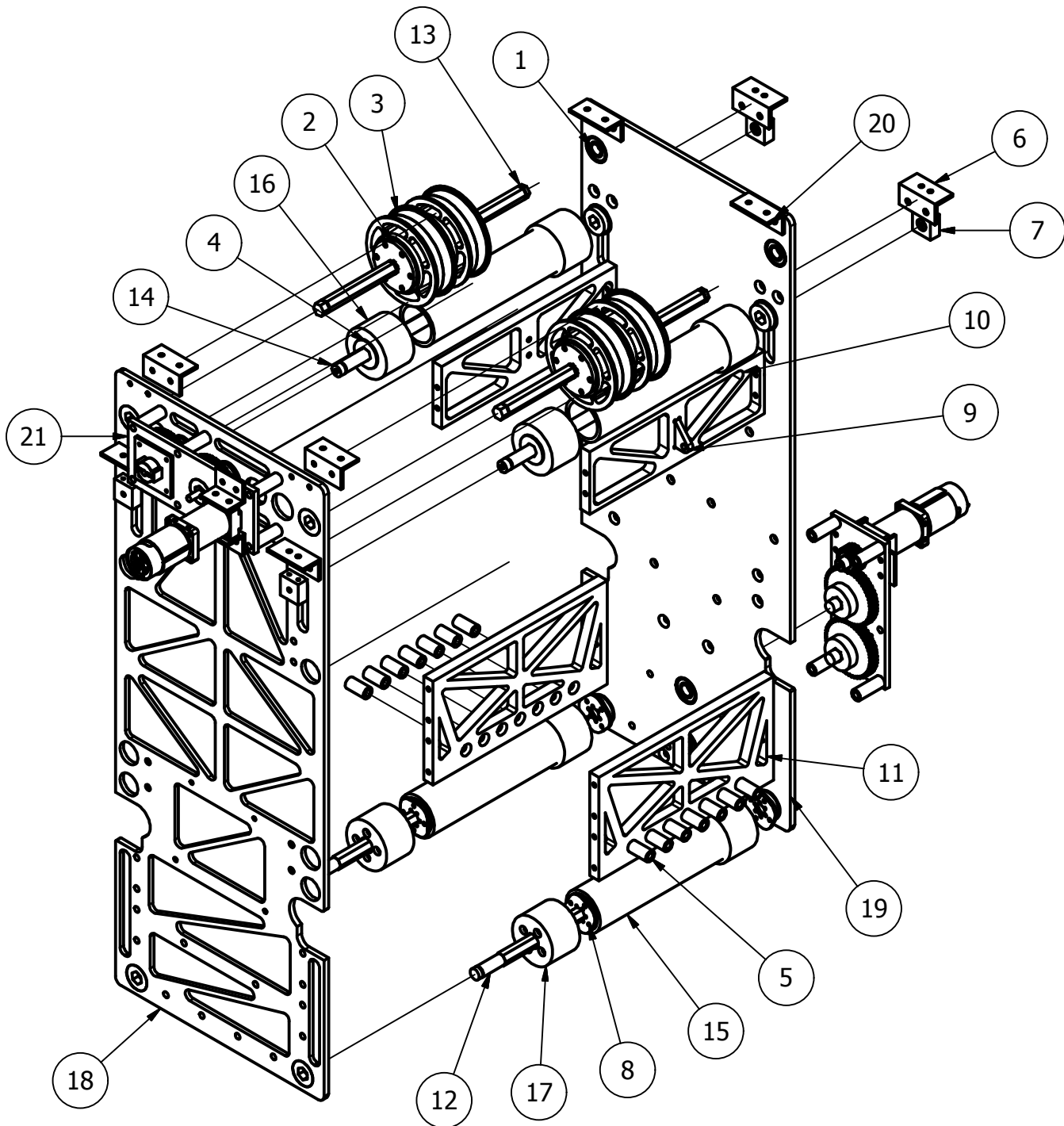
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

PARTS LIST		
ITEM	QTY	PART NUMBER
1	9	MDLBDC24-JAGUAR
2	1	NP1812-12V_17Ah_BATTERY
3	1	BC3SM120-CIRCUIT_BREAKER
4	1	cRIO-FRCII
5	1	SPIKERELAYH-12V_SPIKE
6	1	DAP1522-DLINK_WIRELESS_BRIDGE
7	1	AM0993-2CAN_ADAPTOR
8	1	AM0899-POWER_CONVERTER_CPR-360
9	1	A003333-DIGITAL_SIDEAR
10	1	A003206-POWER_DISTRIBUTION_BOARD

MATERIAL:		UNLESS OTHERWISE SPECIFIED			DRAWN :		CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD			
		TOLERANCES ON ALL HOLE DIAMETERS			G. AHN				2/11/2012	
FINISH:		UNDER .014 0	+ .0020 - .0005	.500 THRU .750	+ .008 - .001	CHECKED :			2/11/2012	
						V. KEE				
		.014 THRU .125	+ .004 - .001	.751 THRU 1.000	+ .010 - .001	QA:	2/21/2012			
						L. FROSCHAUER				
		.126 THRU .250	+ .005 - .001	1.000 THRU 2.000	+ .012 - .001	MFG:	2/21/2012			
						G. AHN				
WEIGHT: 24.121 LBS.		.251 THRU .500	+ .006 - .001	OVER 2.000	+ .015 - .005	APPROVED:	2/11/2012			
						T. HARDER				
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DECIMAL DIMENSIONS:		ON ANGULAR DIMENSIONS:		  				
		.XXX ±.010 .XX ±.03 .X ±.1		MACHINED ±0°30' LOCATING ±0°30' CHAMFERS ±5°						

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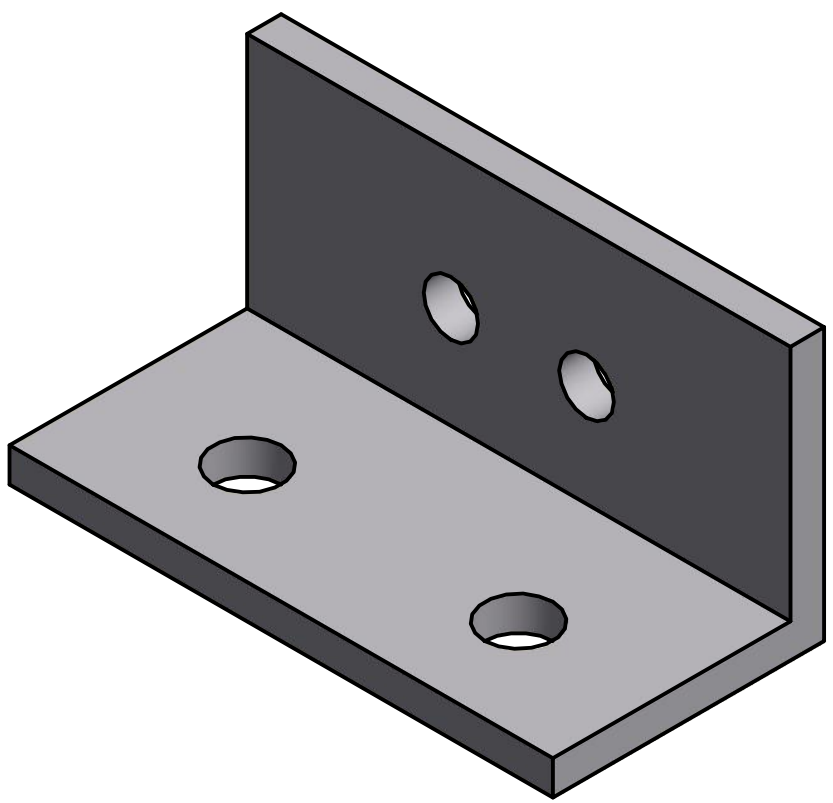
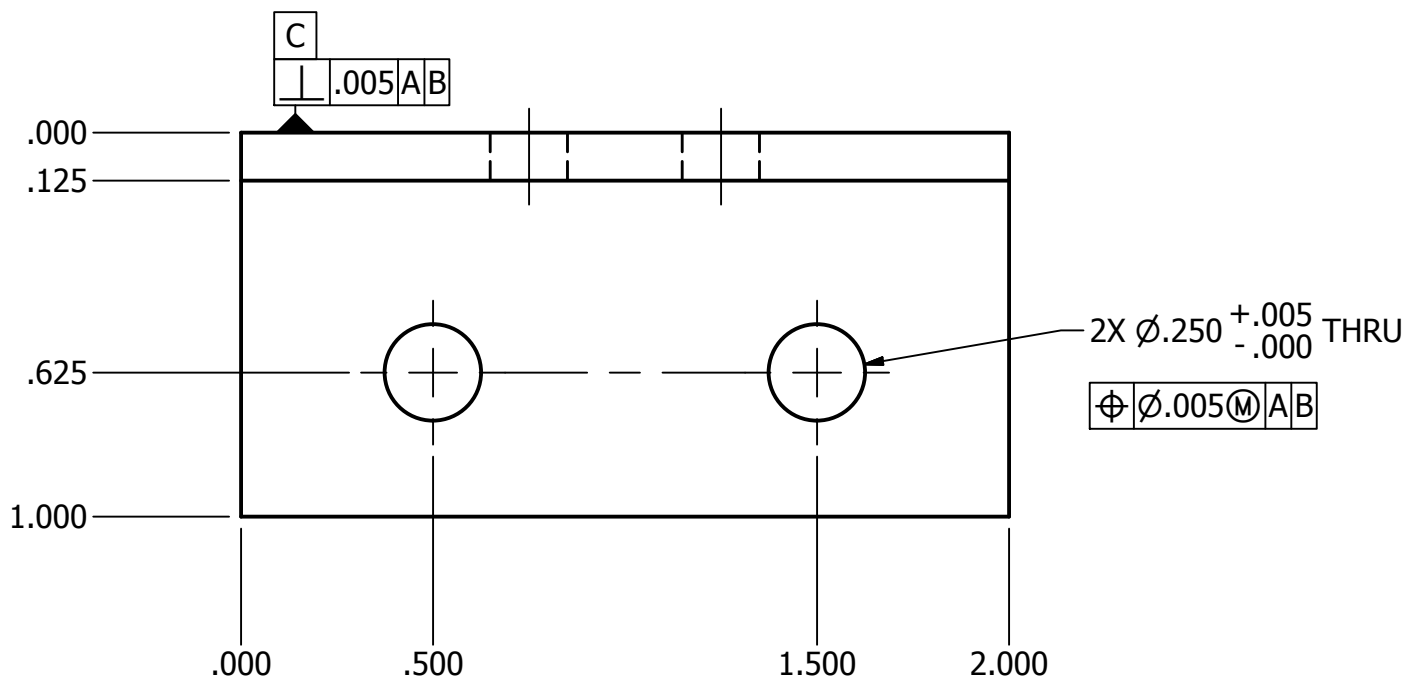
NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

MATERIAL:	UNLESS OTHERWISE SPECIFIED				DRAWN :	2/6/2012	CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD					
	TOLERANCES ON ALL HOLE DIAMETERS				CHECKED :					2/6/2012		
FINISH:	UNDER .014 0	+ .0020 - .0005	.500 THRU .750	+ .008 - .001	QA: L. FROSCHAUER	2/17/2012					TITLE : A-INTAKE	
	.014 THRU .125	+ .004 - .001	.751 THRU 1.000	+ .010 - .001	MFG: D. DOAN					2/17/2012		
WEIGHT:	30.488 LBS.	.126 THRU .250	+ .005 - .001	1.000 THRU 2.000	+ .012 - .001	APPROVED: T. HARDER	2/17/2012	SIZE: DWG NO: REV: B A-COMPETITION_INTAKE 1				
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DECIMAL DIMENSIONS: .XXX ±.010 .XX ±.03 .X ±.1		ON ANGULAR DIMENSIONS: MACHINED ± 0°30' LOCATING ± 0°30' CHAMFERS ± 5°		  						
									SCALE: 1:6 SUBSYSTEM: INTAKE SHEET: 1 OF 1			

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

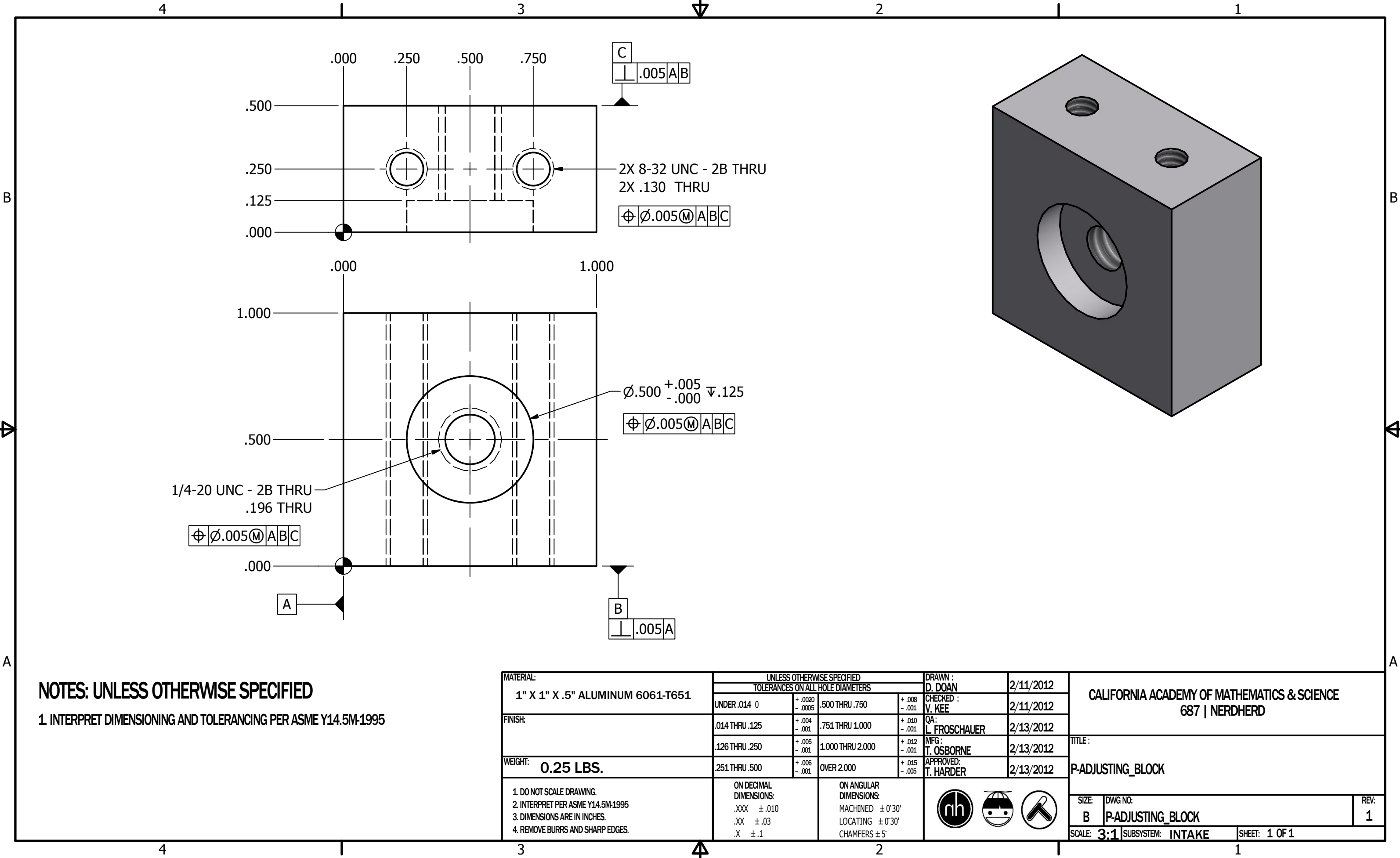
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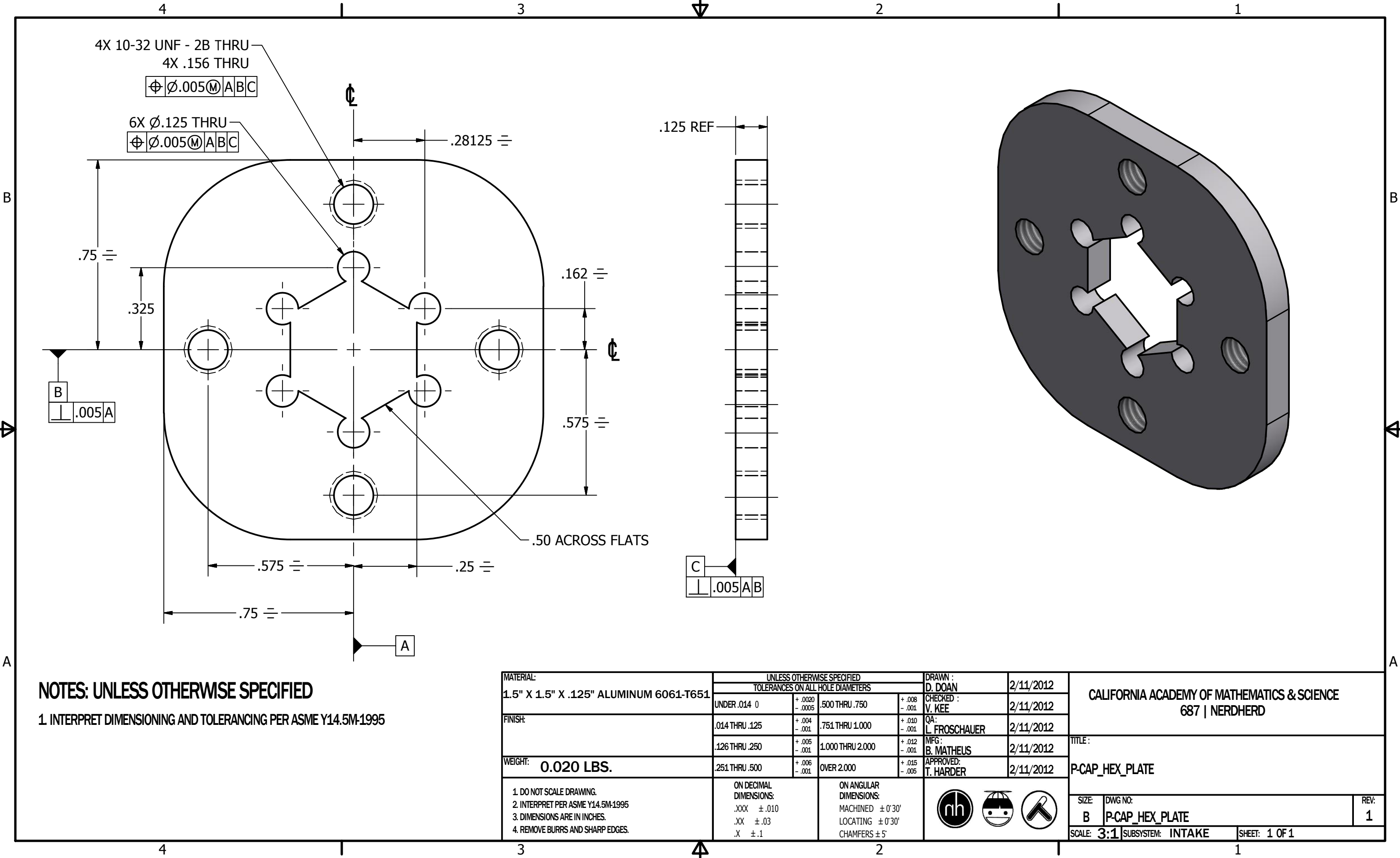


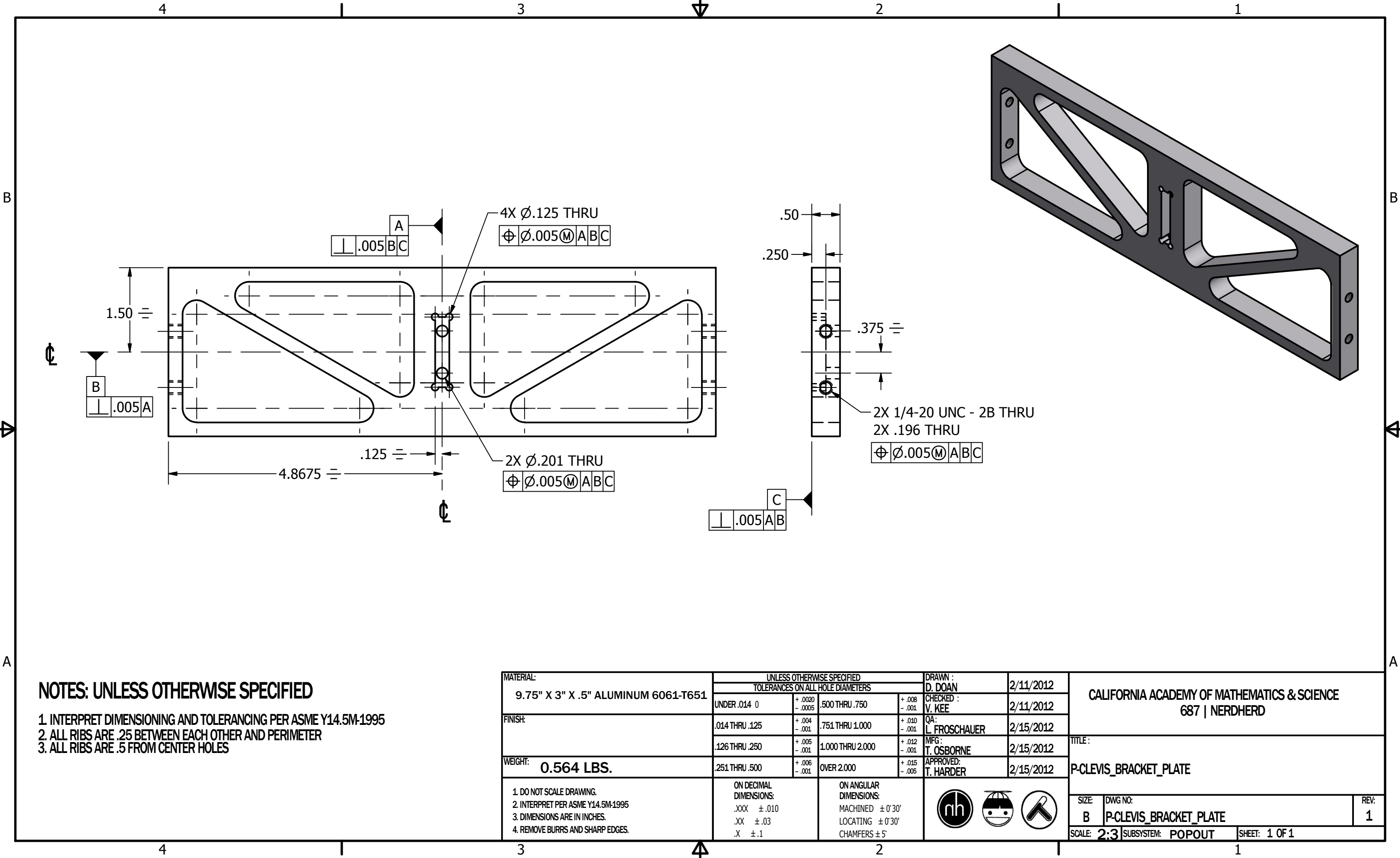
NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

MATERIAL: 2" X 1" X 1" .125 THK ALUMINUM 6063-T52		UNLESS OTHERWISE SPECIFIED				DRAWN : O. MIAH		2/6/2012		CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD					
		TOLERANCES ON ALL HOLE DIAMETERS				CHECKED : V. KEE		2/6/2012							
FINISH:		UNDER .014 0	+ .0020 - .0005	.500 THRU .750	+ .008 - .001	QA: L. FROSCHAUER		2/8/2012		TITLE : P-ADJUST_ANGLE					
		.014 THRU .125	+ .004 - .001	.751 THRU 1.000	+ .010 - .001	MFG: T. OSBORNE		2/8/2012							
WEIGHT: 0.044 LBS.		.126 THRU .250	+ .005 - .001	1.000 THRU 2.000	+ .012 - .001	APPROVED: T. HARDER		2/8/2012							
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DECIMAL DIMENSIONS: .XXX ±.010 .XX ±.03 .X ±.1		ON ANGULAR DIMENSIONS: MACHINED ±0°30' LOCATING ±0°30' CHAMFERS ±5°		  				SIZE:		DWG NO:		REV:	
								B		P-ADJUST_ANGLE		1			
								SCALE: 2:1		SUBSYSTEM: INTAKE		SHEET: 1 OF 1			



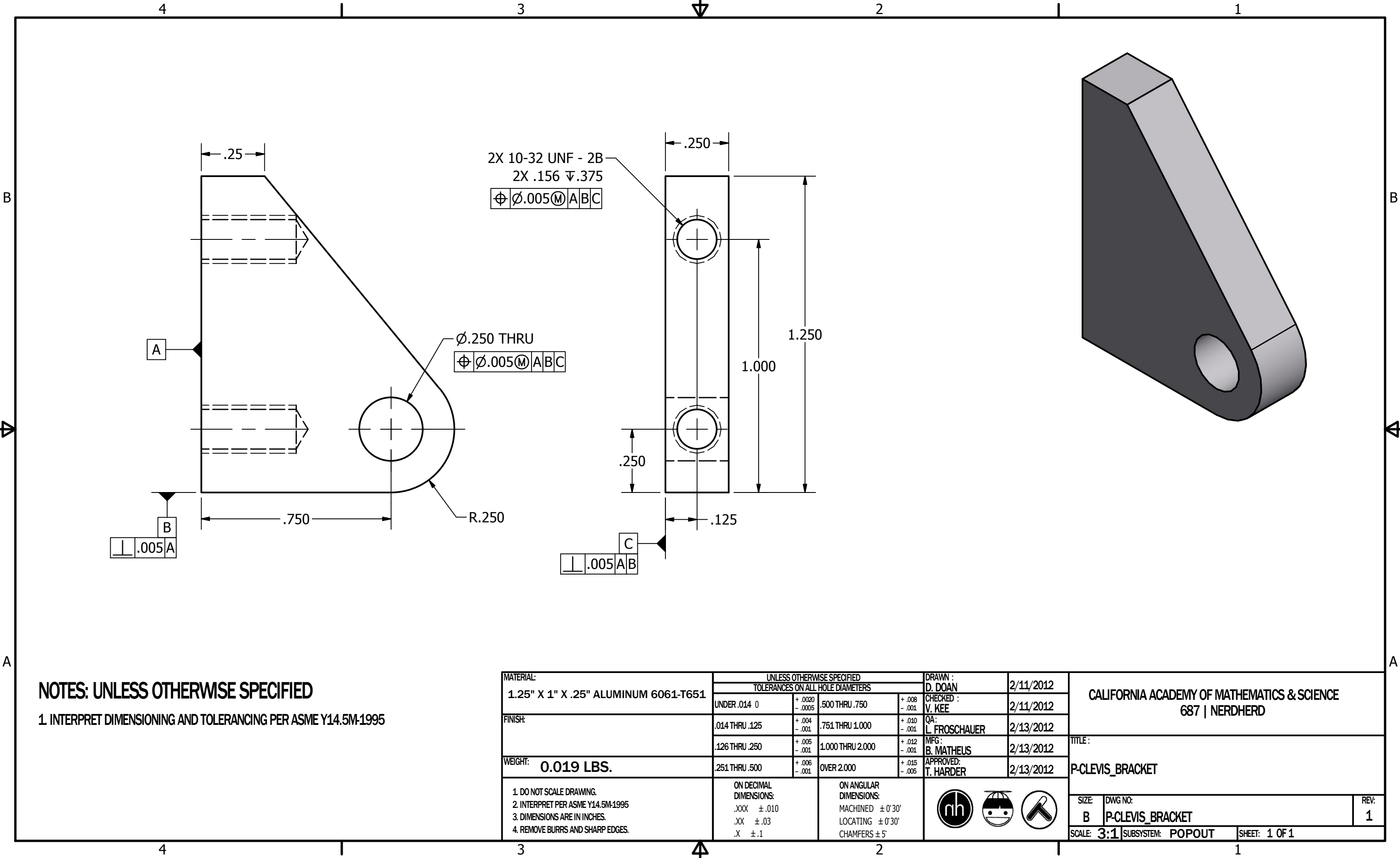


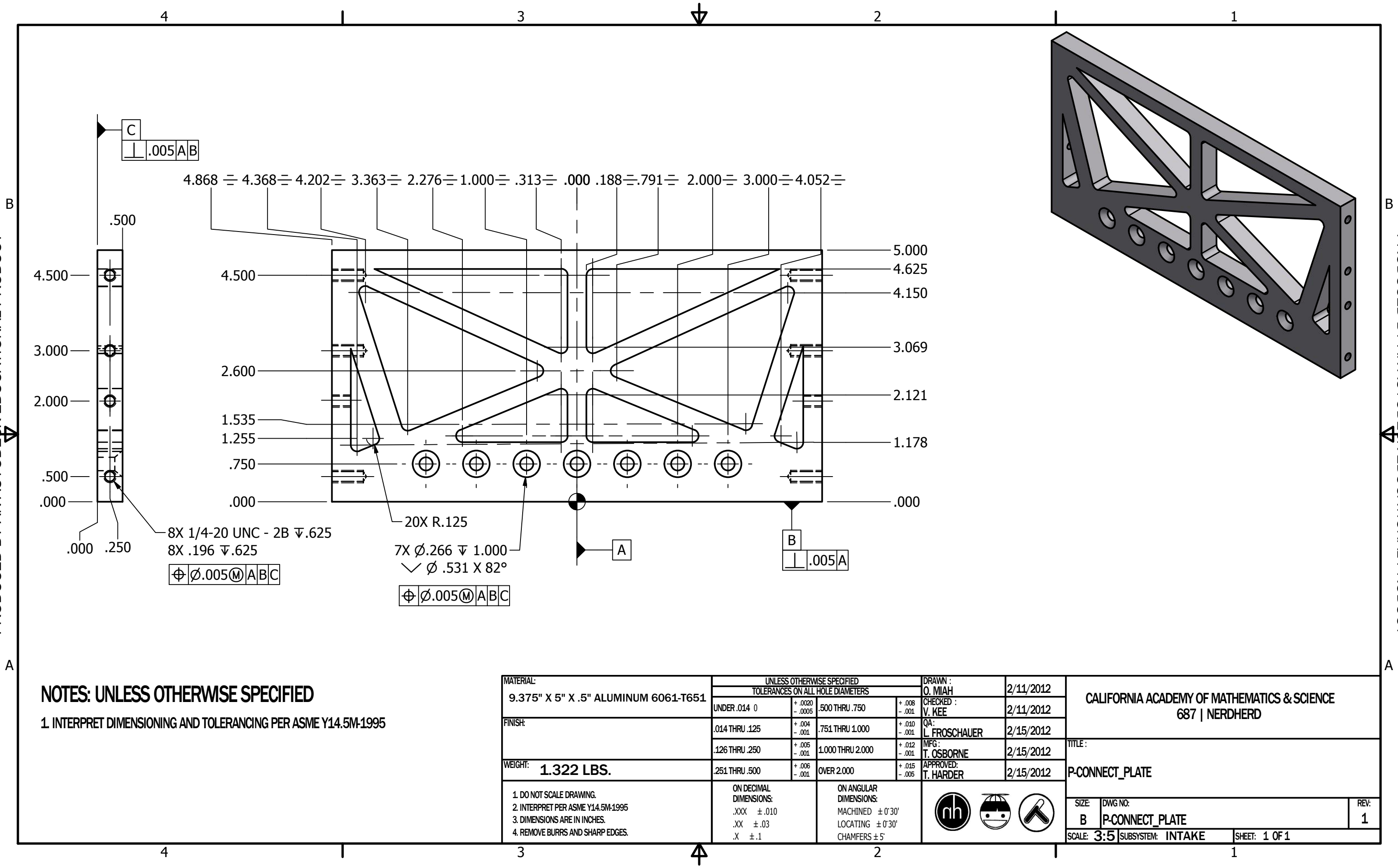


NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995
2. ALL RIBS ARE .25 BETWEEN EACH OTHER AND PERIMETER
3. ALL RIBS ARE .5 FROM CENTER HOLES

MATERIAL: 9.75" X 3" X .5" ALUMINUM 6061-T651		UNLESS OTHERWISE SPECIFIED				DRAWN : D. DOAN		2/11/2012		CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD					
		TOLERANCES ON ALL HOLE DIAMETERS				CHECKED : V. KEE		2/11/2012							
FINISH:		UNDER .014 0	+ .0020 - .0005	.500 THRU .750	+ .008 - .001	QA: L. FROSCHAUER		2/15/2012		TITLE : P-CLEVIS_BRACKET_PLATE					
		.014 THRU .125	+ .004 - .001	.751 THRU 1.000	+ .010 - .001	MFG: T. OSBORNE		2/15/2012							
WEIGHT: 0.564 LBS.		.251 THRU .500	+ .006 - .001	OVER 2.000	+ .015 - .005	APPROVED: T. HARDER		2/15/2012							
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DECIMAL DIMENSIONS:		ON ANGULAR DIMENSIONS:		  									
		.XXX ±.010		MACHINED ± 0°30'											
		.XX ±.03		LOCATING ± 0°30'											
		.X ±.1		CHAMFERS ± 5°											
										SIZE:		DWG NO:		REV:	
										B		P-CLEVIS_BRACKET_PLATE		1	
										SCALE: 2:3		SUBSYSTEM: POPOUT		SHEET: 1 OF 1	

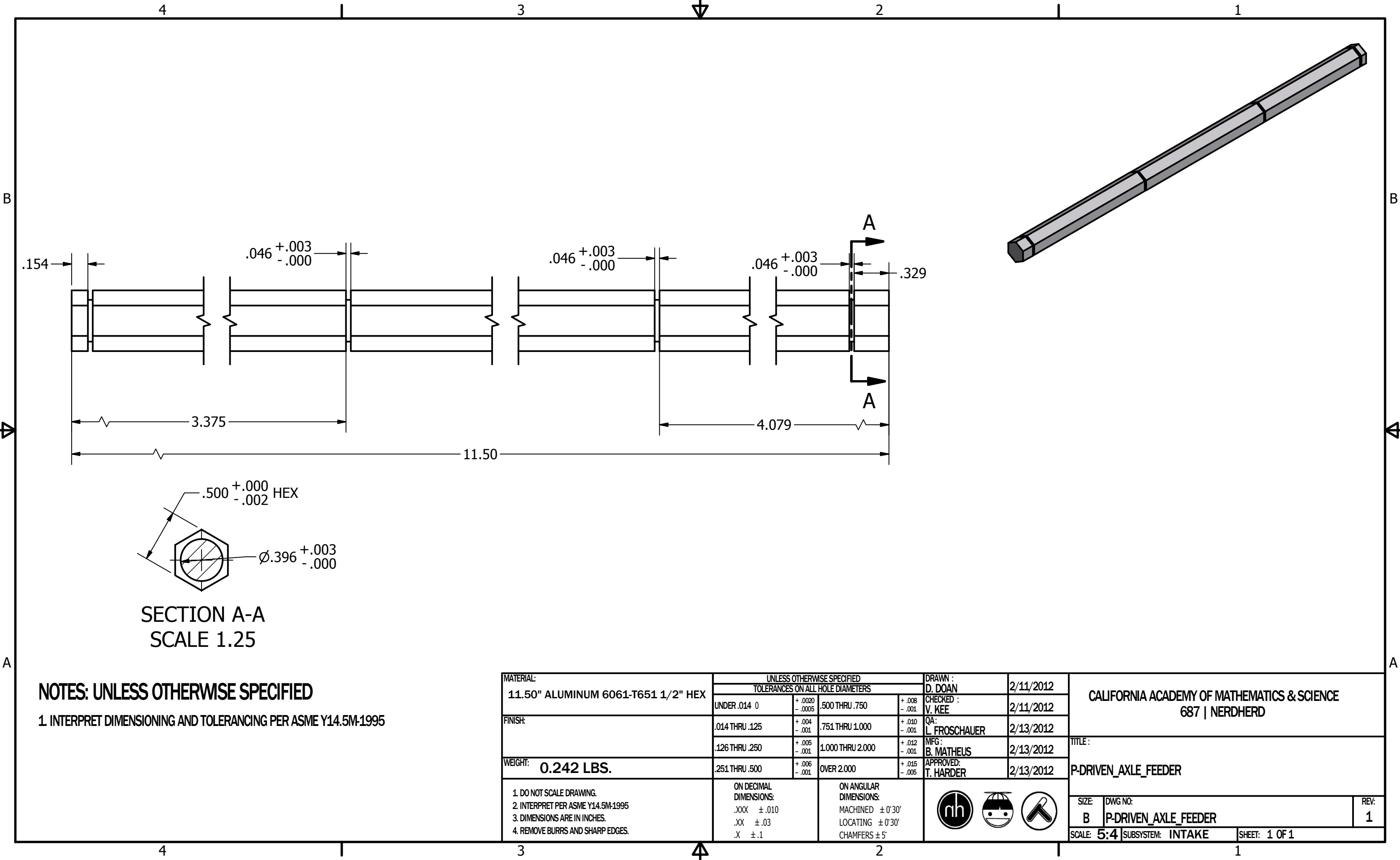


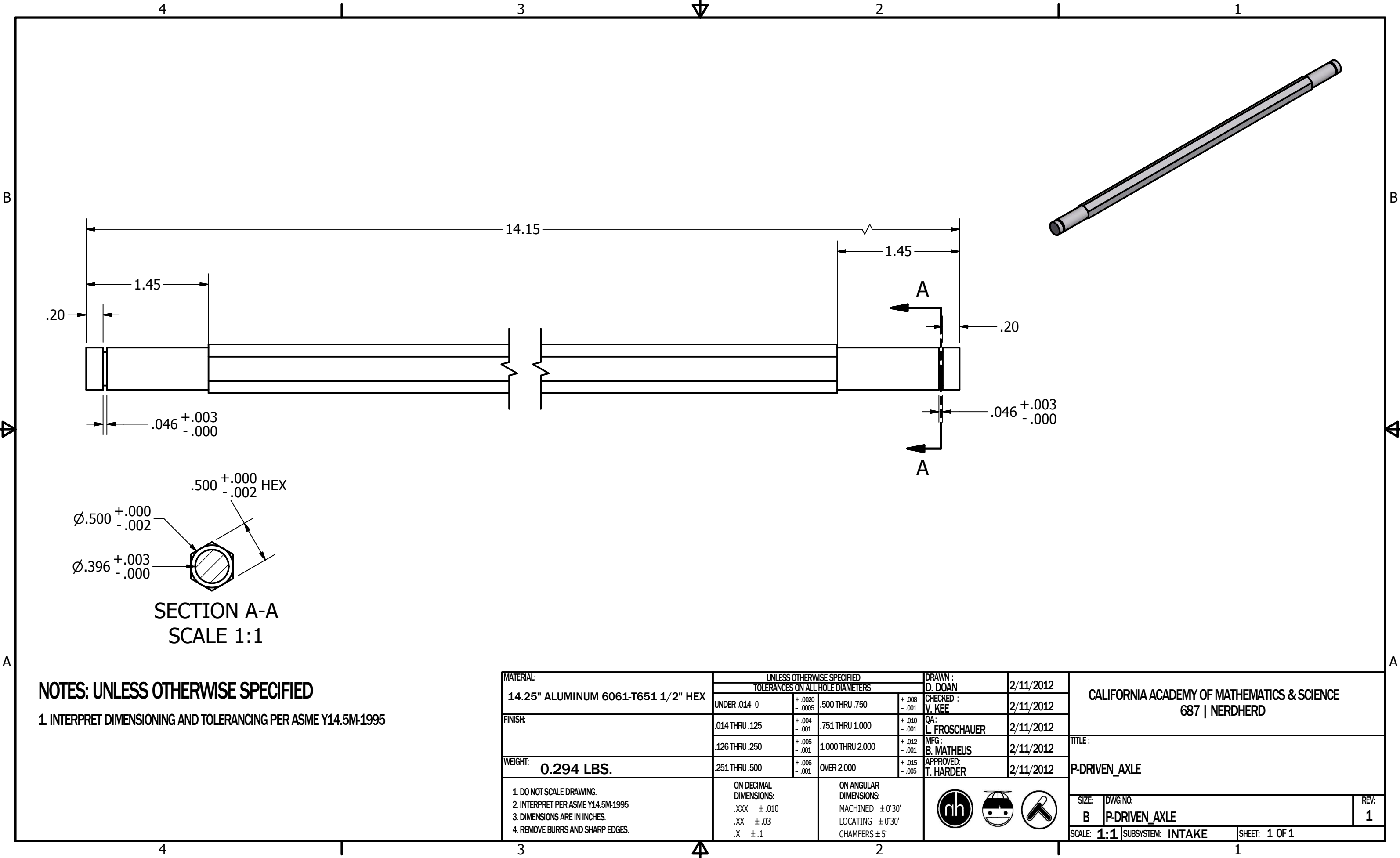


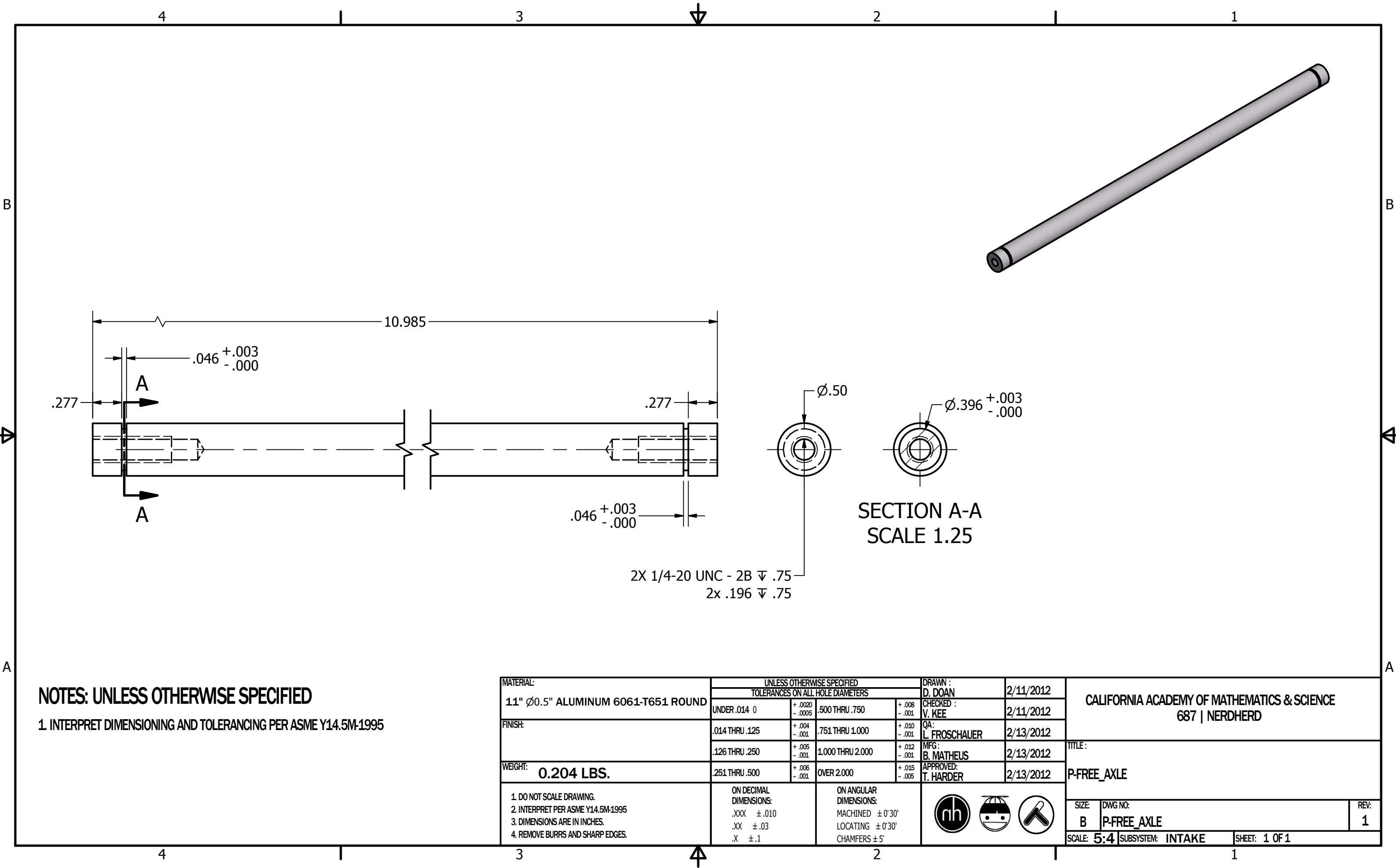
NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

MATERIAL: 9.375" X 5" X .5" ALUMINUM 6061-T651	UNLESS OTHERWISE SPECIFIED TOLERANCES ON ALL HOLE DIAMETERS				DRAWN : O. MIAH	2/11/2012	CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD		
	UNDER .014 0	+ .0020 - .0005	.500 THRU .750	+ .008 - .001	CHECKED : V. KEE	2/11/2012			
	.014 THRU .125	+ .004 - .001	.751 THRU 1.000	+ .010 - .001	QA: L. FROSCHAUER	2/15/2012			
	.126 THRU .250	+ .005 - .001	1.000 THRU 2.000	+ .012 - .001	MFG: T. OSBORNE	2/15/2012	TITLE: P-CONNECT_PLATE		
WEIGHT: 1.322 LBS.	.251 THRU .500	+ .006 - .001	OVER 2.000	+ .015 - .005	APPROVED: T. HARDER	2/15/2012			
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.	ON DECIMAL DIMENSIONS: .XXX ±.010 .XX ±.03 .X ±.1		ON ANGULAR DIMENSIONS: MACHINED ±0°30' LOCATING ±0°30' CHAMFERS ±5°		  		SIZE: B	DWG NO: P-CONNECT_PLATE	REV: 1
							SCALE: 3:5	SUBSYSTEM: INTAKE	SHEET: 1 OF 1



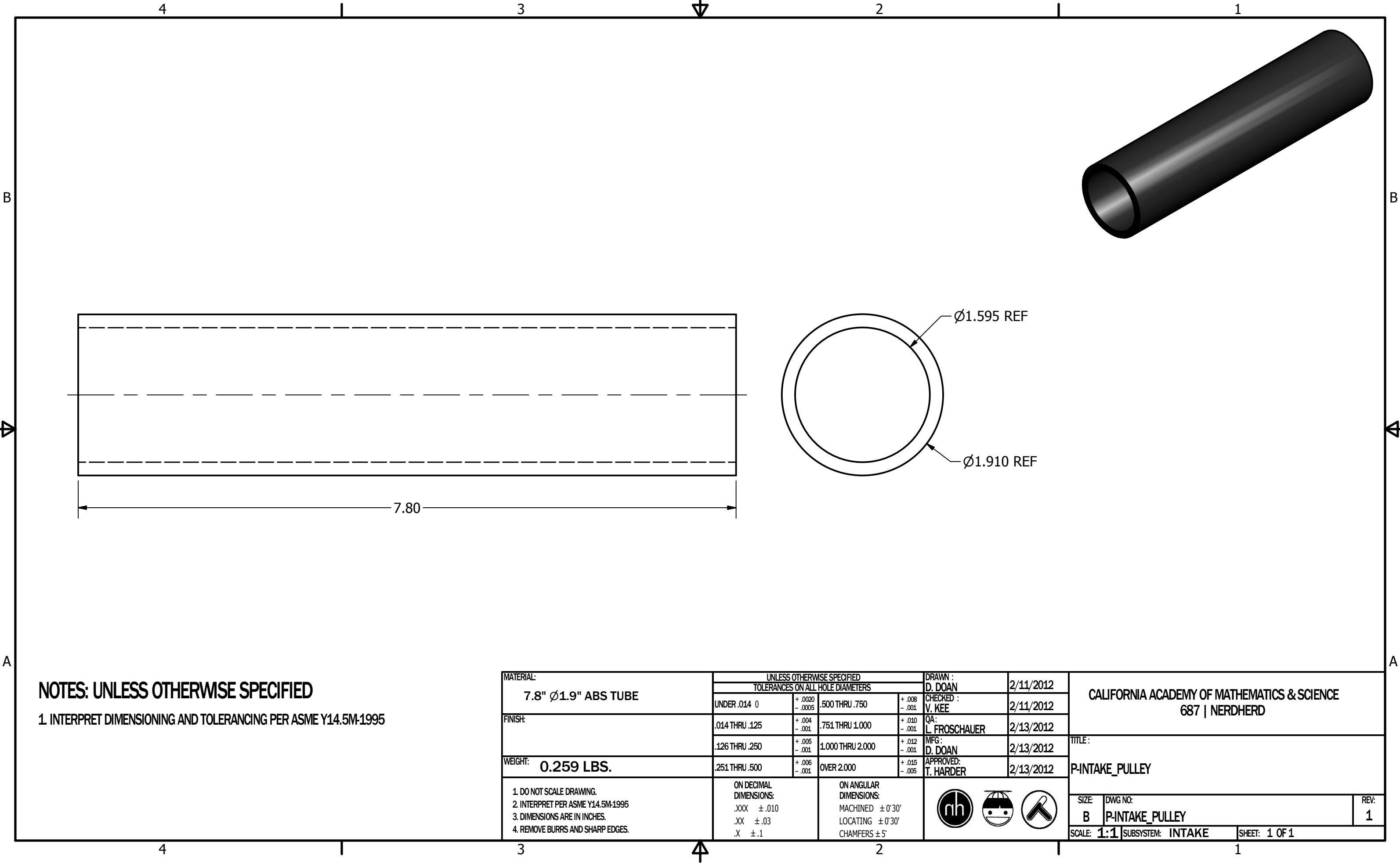




NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

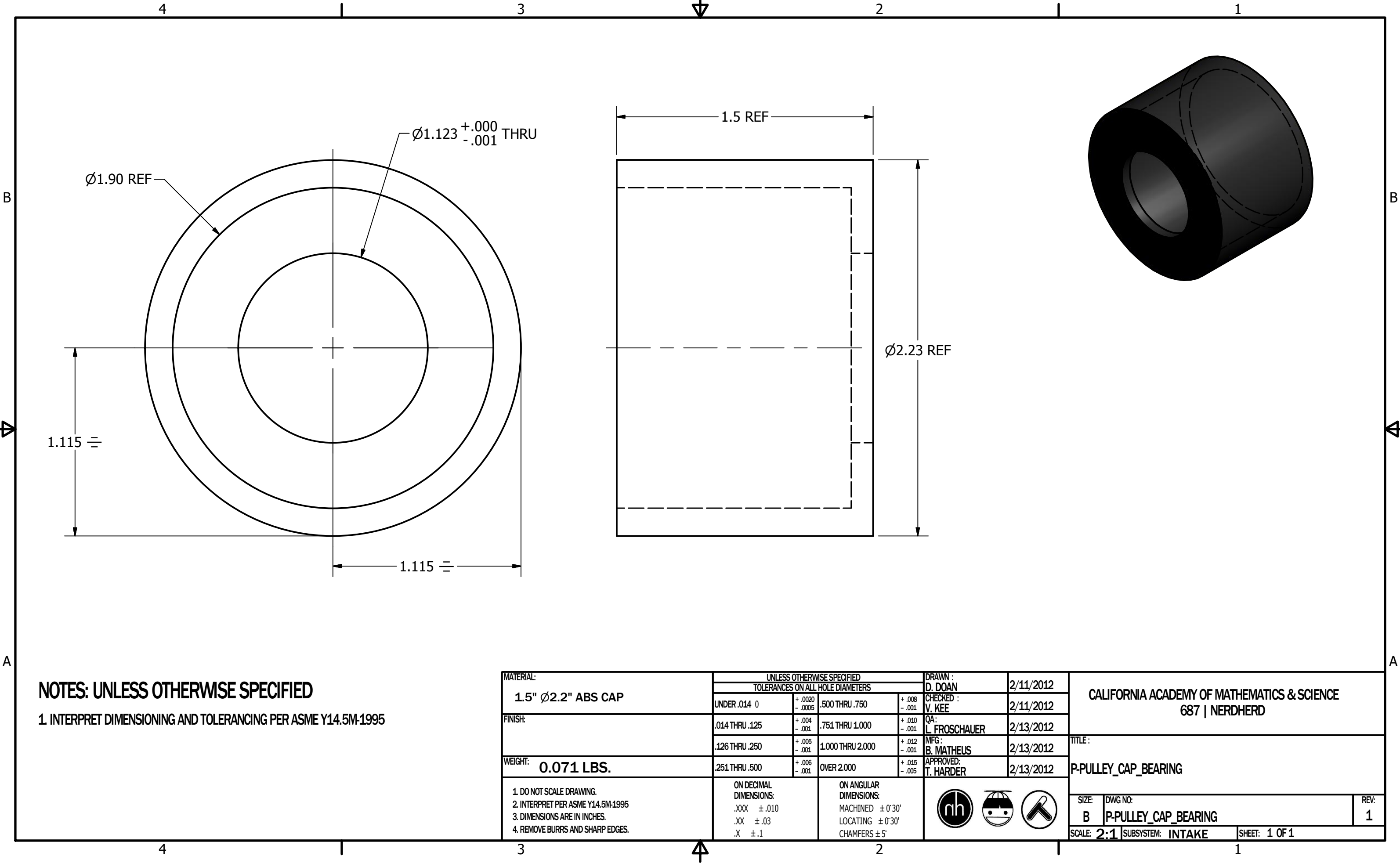
MATERIAL:		UNLESS OTHERWISE SPECIFIED				DRAWN :		2/11/2012		CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD					
1.1" Ø0.5" ALUMINUM 6061-T651 ROUND		TOLERANCES ON ALL HOLE DIAMETERS				D. DOAN		2/11/2012							
		UNDER .014 0		+ .0020 - .0005		.500 THRU .750		+ .008 - .001		CHECKED :		2/11/2012			
FINISH:		.014 THRU .125		+ .004 - .001		.751 THRU 1.000		+ .010 - .001		QA:		2/13/2012			
		.126 THRU .250		+ .005 - .001		1.000 THRU 2.000		+ .012 - .001		L. FROSCHAUER		2/13/2012			
										MFG:		2/13/2012			
WEIGHT:		0.204 LBS.		+ .006 - .001		.251 THRU .500		+ .015 - .005		B. MATHEUS		2/13/2012			
						OVER 2.000				APPROVED:		2/13/2012			
										T. HARDER		2/13/2012			
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DECIMAL DIMENSIONS: .XXX ±.010 .XX ±.03 .X ±.1		ON ANGULAR DIMENSIONS: MACHINED ± 0°30' LOCATING ± 0°30' CHAMFERS ± 5°		  		TITLE : P-FREE_AXLE							
										SIZE:		DWG NO:		REV:	
										B		P-FREE_AXLE		1	
										SCALE: 5:4		SUBSYSTEM: INTAKE		SHEET: 1 OF 1	

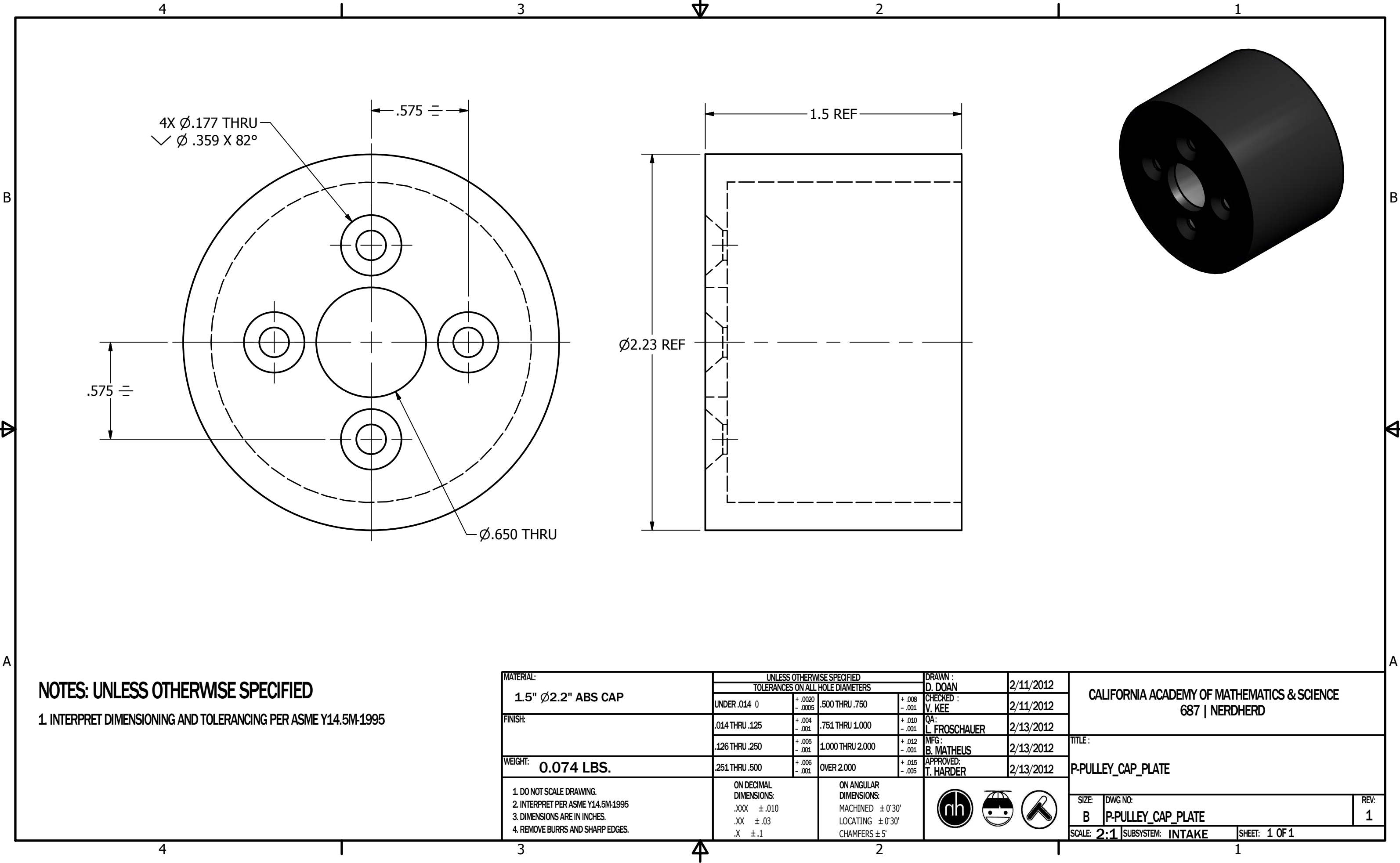


NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

MATERIAL: 7.8" Ø1.9" ABS TUBE		UNLESS OTHERWISE SPECIFIED				DRAWN : D. DOAN		2/11/2012		CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD							
		TOLERANCES ON ALL HOLE DIAMETERS				CHECKED : V. KEE		2/11/2012									
FINISH:		UNDER .014 0		+ .0020 - .0005		.500 THRU .750		+ .008 - .001		QA: L. FROSCHAUER		2/13/2012		TITLE : P-INTAKE_PULLEY			
		.014 THRU .125		+ .004 - .001		.751 THRU 1.000		+ .010 - .001		MFG: D. DOAN		2/13/2012					
WEIGHT: 0.259 LBS.		.126 THRU .250		+ .005 - .001		1.000 THRU 2.000		+ .012 - .001		APPROVED: T. HARDER		2/13/2012		SIZE: DWG NO: REV: B P-INTAKE_PULLEY 1			
		.251 THRU .500		+ .006 - .001		OVER 2.000		+ .015 - .005									
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DECIMAL DIMENSIONS: .XXX ±.010 .XX ±.03 .X ±.1				ON ANGULAR DIMENSIONS: MACHINED ±0°30' LOCATING ±0°30' CHAMFERS ±5°				  							
SCALE: 1:1										SUBSYSTEM: INTAKE				SHEET: 1 OF 1			



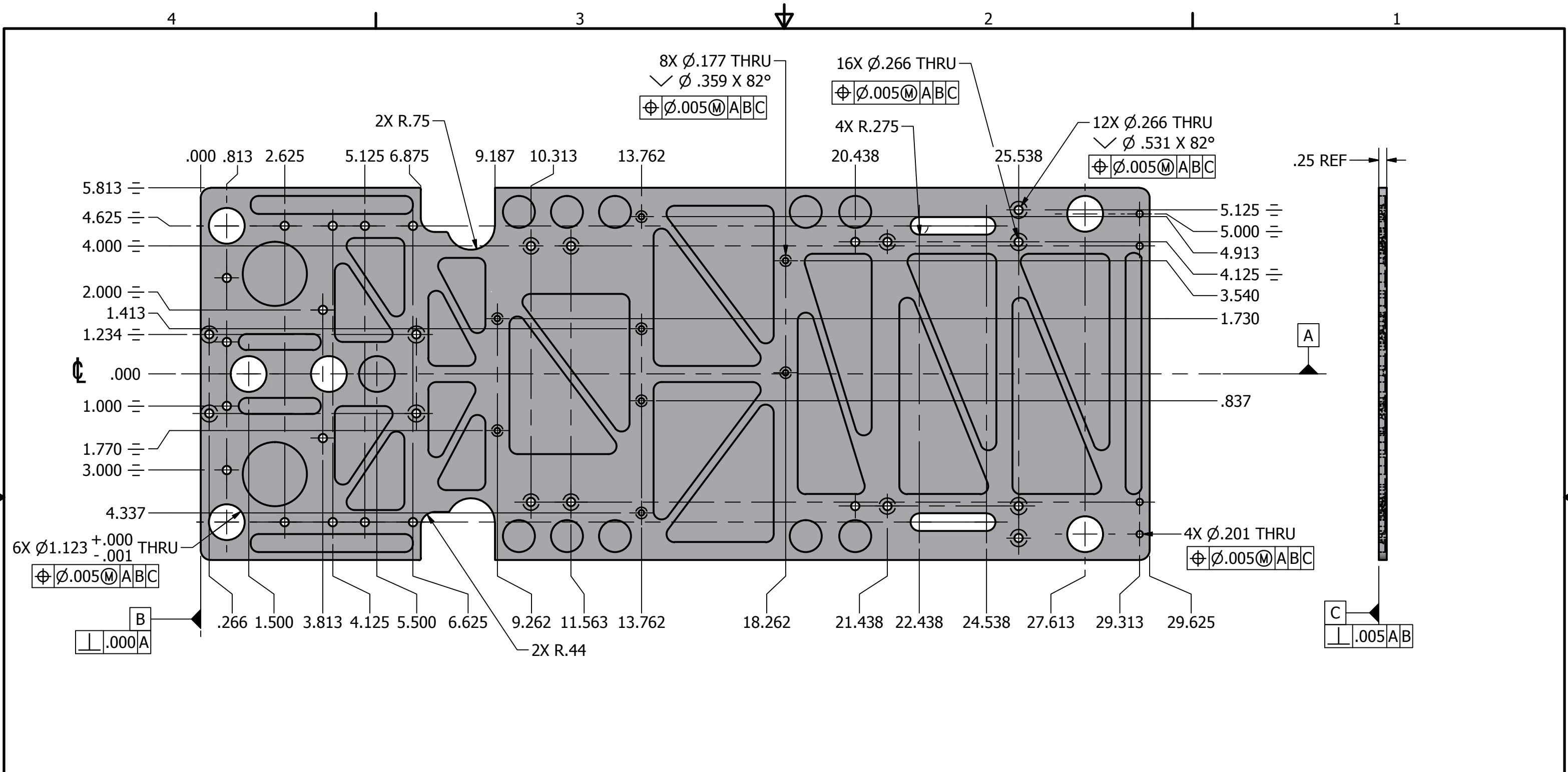


1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995
2. ALL RIBS ARE .25 BETWEEN EACH OTHER AND .375 BETWEEN CENTER HOLES
3. ALL POCKETS ARE .20 DEEP
4. ALL FILLETS AND ROUNDS R0.25

MATERIAL: 29.625" X 11.625" X .25" ALUMINUM 6061-T651	UNLESS OTHERWISE SPECIFIED				DRAWN : D. DOAN	2/11/2012	CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD					
	TOLERANCES ON ALL HOLE DIAMETERS				CHECKED : V. KEE	2/11/2012						
	UNDER .014 0	+ .0020 - .0005	.500 THRU .750	+ .008 - .001	QA: L. FROSCHAUER	2/17/2012						
	FINISH:	.014 THRU .125	+ .004 - .001	.751 THRU 1.000	+ .010 - .001	MFG: M. FERRER	2/17/2012	TITLE : P-SIDE_PLATE_HIGHER				
		.126 THRU .250	+ .005 - .001	1.000 THRU 2.000	+ .012 - .001	APPROVED: T. HARDER	2/17/2012					
WEIGHT: 4.739 LBS.	.251 THRU .500	+ .006 - .001	OVER 2.000	+ .015 - .005								
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.	ON DECIMAL DIMENSIONS: .XXX ± .010 .XX ± .03 .X ± .1		ON ANGULAR DIMENSIONS: MACHINED ± 0° 30' LOCATING ± 0° 30' CHAMFERS ± 5°		  			SIZE: B		DWG NO: P-SIDE_PLATE_HIGHER		REV: 1
							SCALE: 1:3		SUBSYSTEM: INTAKE		SHEET: 1 OF 1	

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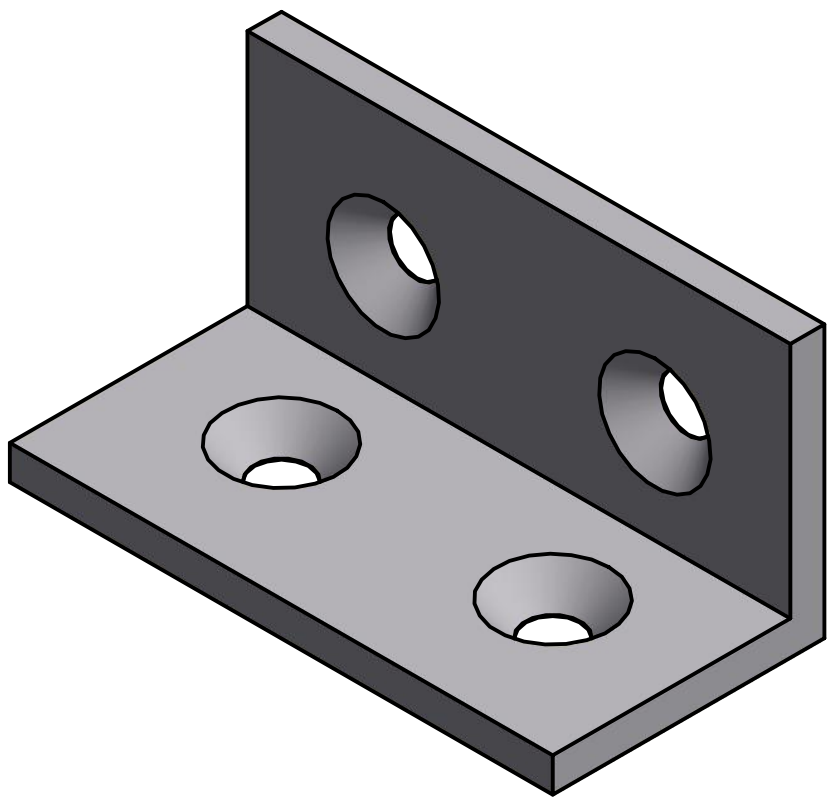
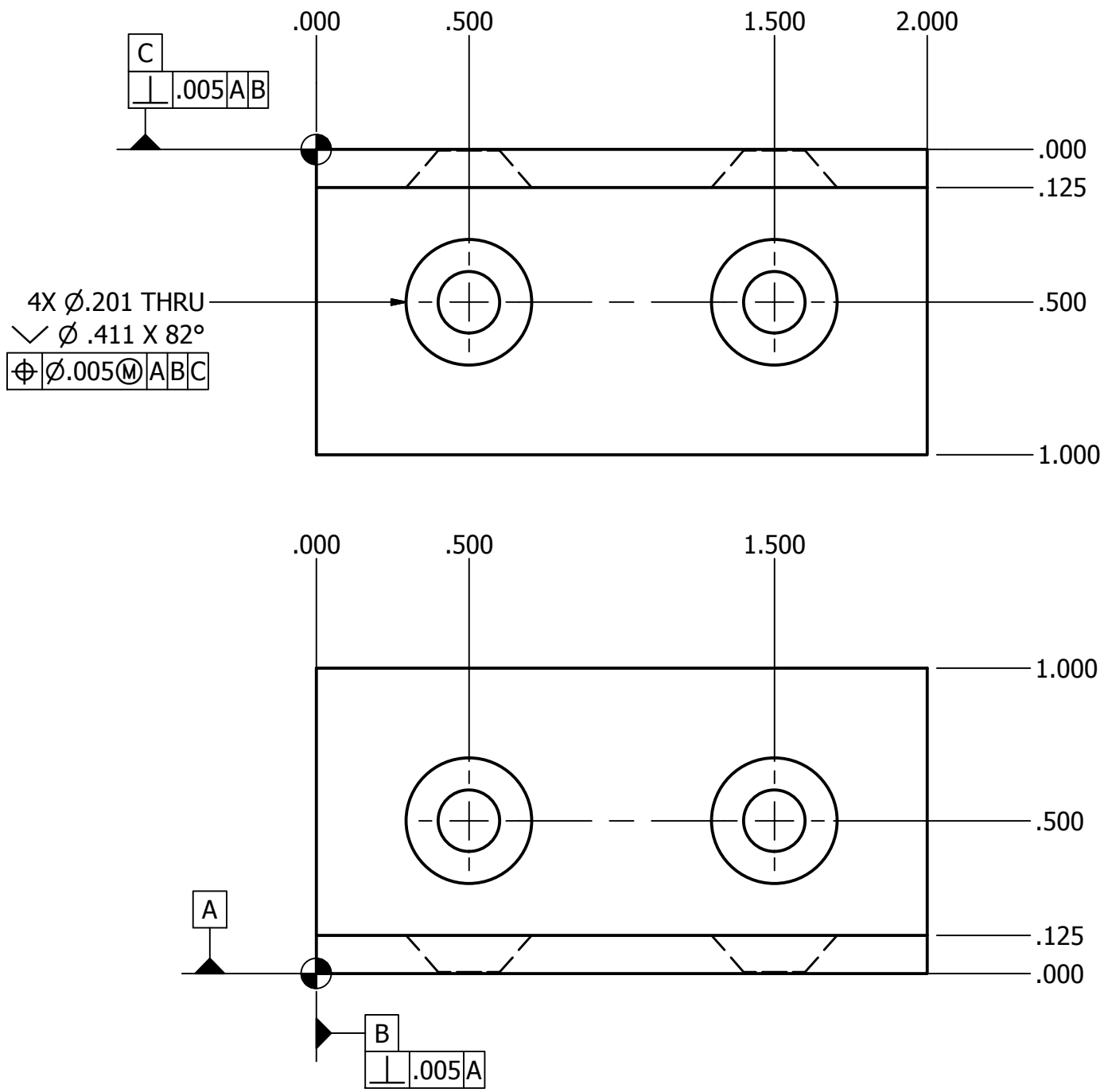
NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995
2. ALL RIBS ARE .25 BETWEEN EACH OTHER AND .375 BETWEEN CENTER HOLES
3. ALL POCKETS ARE .20 DEEP
4. ALL FILLETS AND ROUNDS R0.25

MATERIAL: 29.625" X 11.625" X .25" ALUMINUM 6061-T651		UNLESS OTHERWISE SPECIFIED				DRAWN : D. DOAN		2/11/2012		CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD					
		TOLERANCES ON ALL HOLE DIAMETERS				CHECKED : V. KEE		2/11/2012							
FINISH:		UNDER .014 0	+ .0020 - .0005	.500 THRU .750	+ .008 - .001	QA: L. FROSCHAUER		2/13/2012		TITLE : P-SIDE_PLATE_LOWER					
		.014 THRU .125	+ .004 - .001	.751 THRU 1.000	+ .010 - .001	MFG: J. FERRER		2/13/2012							
WEIGHT: 4.960 LBS.		.251 THRU .500	+ .006 - .001	OVER 2.000	+ .015 - .005	APPROVED: T. HARDER		2/16/2012							
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DECIMAL DIMENSIONS:		ON ANGULAR DIMENSIONS:		  				SIZE:		DWG NO:		REV:	
		.XXX ±.010		MACHINED ±0°30'				B		P-SIDE_PLATE_LOWER		1			
		.XX ±.03		LOCATING ±0°30'											
		.X ±.1		CHAMFERS ±5°											
										SCALE: 1:3		SUBSYSTEM: INTAKE		SHEET: 1 OF 1	

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

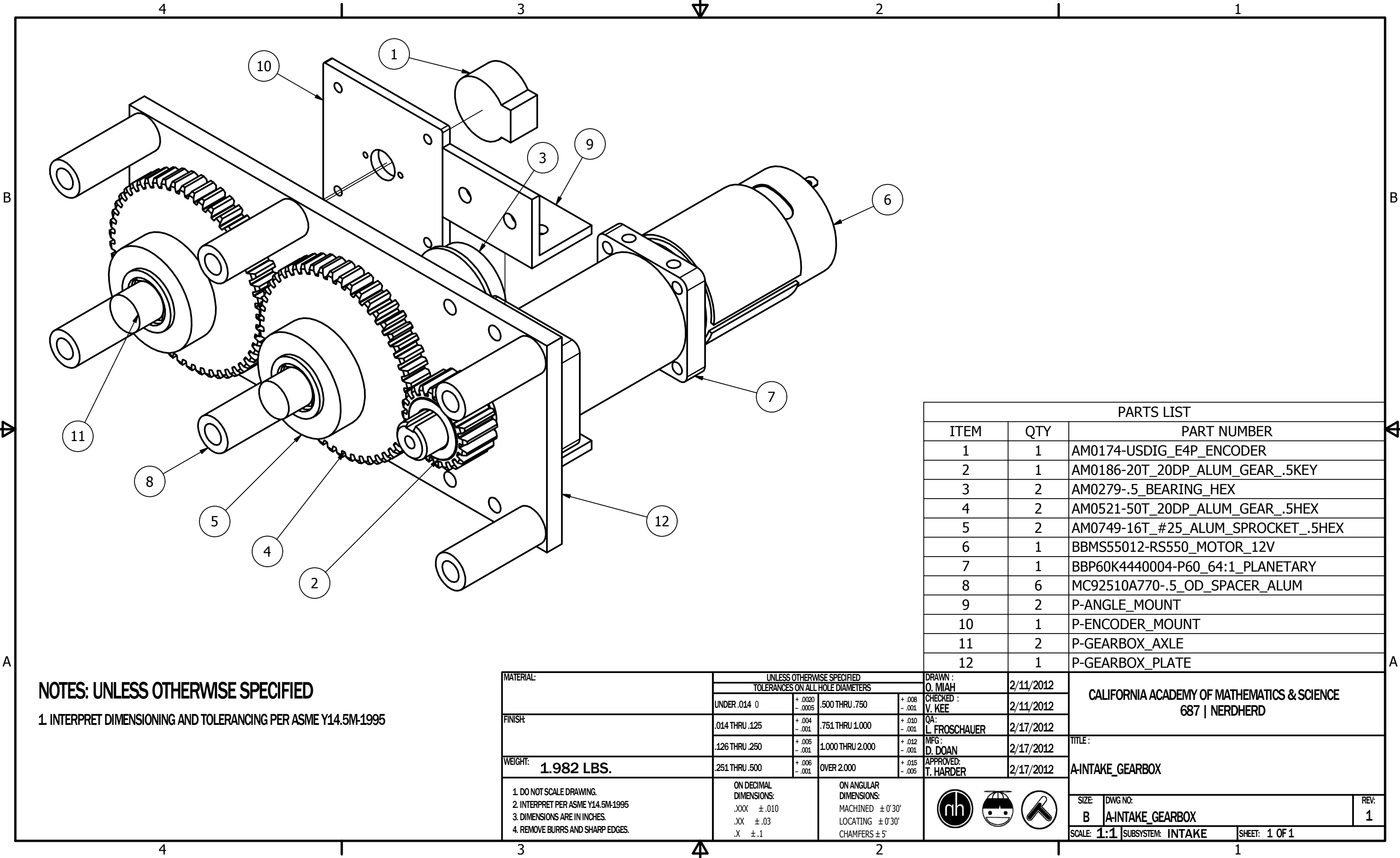
PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT



NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

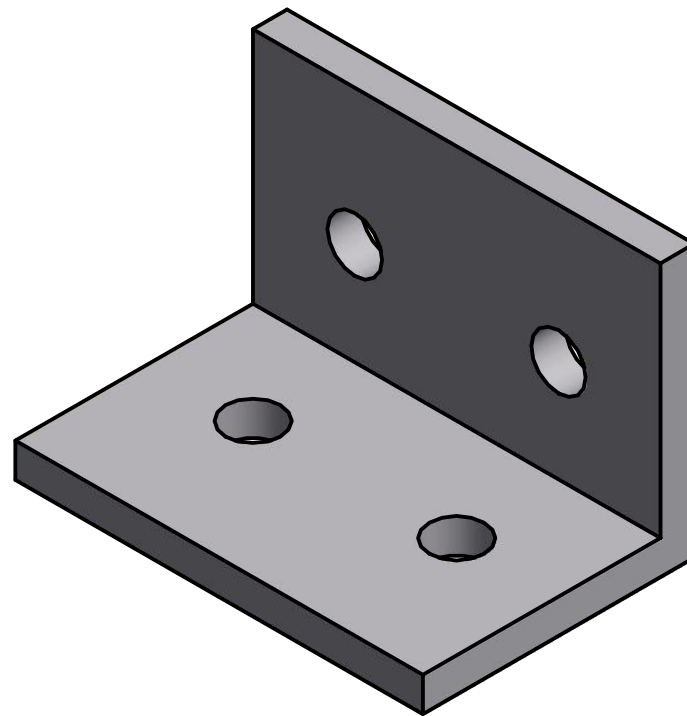
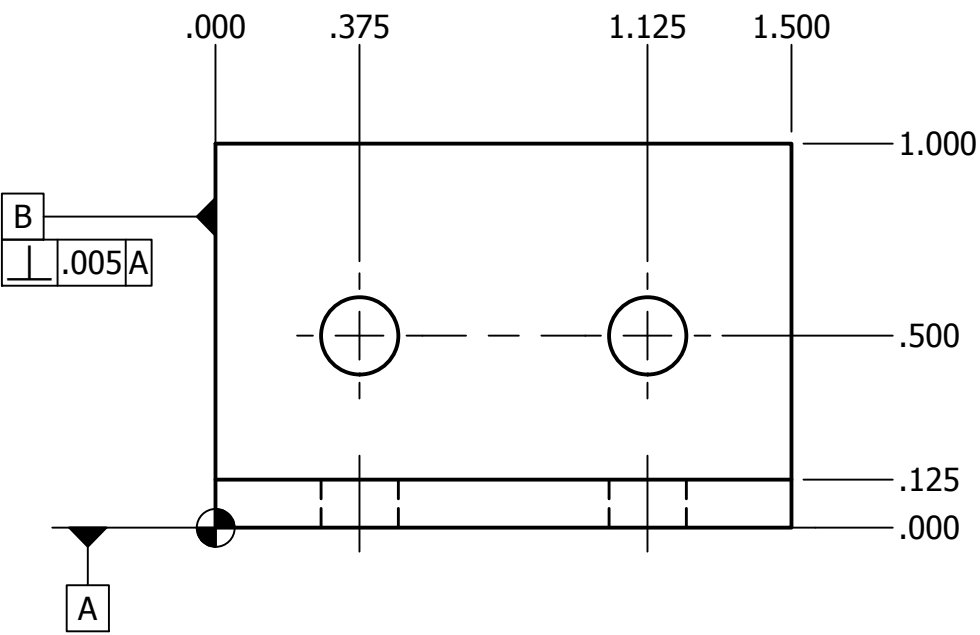
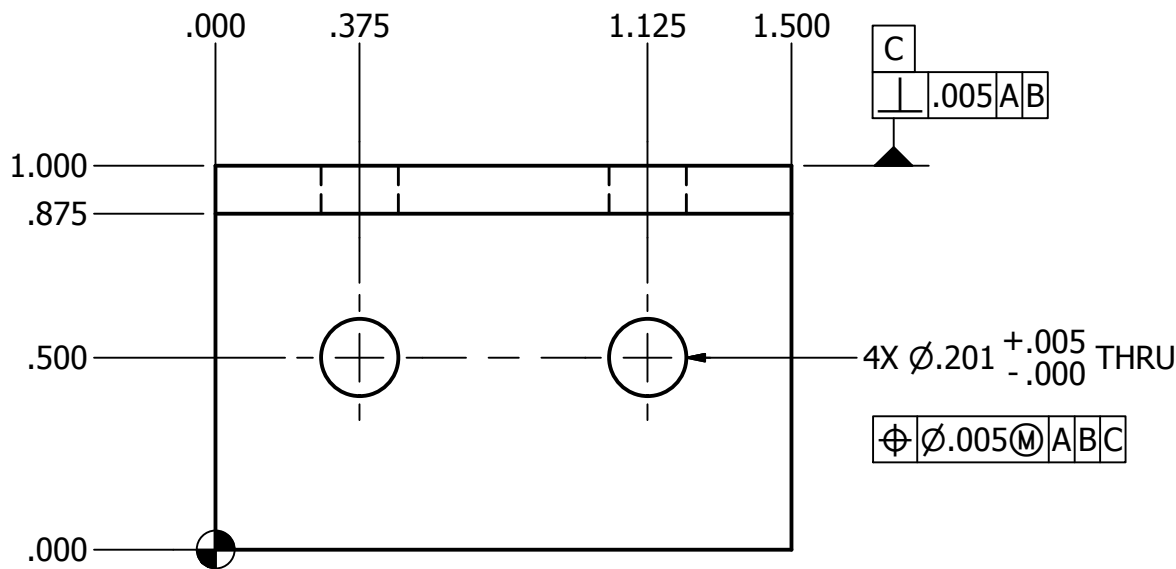
MATERIAL: 2" X 1" X 1" .125 THK ALUMINUM 6063-T52		UNLESS OTHERWISE SPECIFIED				DRAWN : D. DOAN		2/11/2012		CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD					
		TOLERANCES ON ALL HOLE DIAMETERS				CHECKED : V. KEE		2/11/2012							
FINISH:		UNDER .014 0	+ .0020 - .0005	.500 THRU .750	+ .008 - .001	QA: L. FROSCHAUER		2/13/2012							
		.014 THRU .125	+ .004 - .001	.751 THRU 1.000	+ .010 - .001	MFG: T. OSBORNE		2/13/2012							
WEIGHT: 0.042 LBS.		.126 THRU .250	+ .005 - .001	1.000 THRU 2.000	+ .012 - .001	APPROVED: T. HARDER		2/13/2012		TITLE : P-TOP_ANGLE					
		.251 THRU .500	+ .006 - .001	OVER 2.000	+ .015 - .005										
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DECIMAL DIMENSIONS: .XXX ±.010 .XX ±.03 .X ±.1		ON ANGULAR DIMENSIONS: MACHINED ± 0°30' LOCATING ± 0°30' CHAMFERS ± 5°		  				SIZE:		DWG NO:		REV:	
										B		P-TOP_ANGLE		1	
										SCALE: 2:1				SUBSYSTEM: INTAKE	



NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

MATERIAL:		UNLESS OTHERWISE SPECIFIED				DRAWN :		2/11/2012		CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD		
		TOLERANCES ON ALL HOLE DIAMETERS				O. MIAH						
		UNDER .014 0	+ .0020 - .0005	.500 THRU .750	+ .008 - .001	V. KEE		2/11/2012				
FINISH:		.014 THRU .125	+ .004 - .001	.751 THRU 1.000	+ .010 - .001	QA: L. FROSCHAUER		2/17/2012				
		.126 THRU .250	+ .005 - .001	1.000 THRU 2.000	+ .012 - .001	MFG: D. DOAN		2/17/2012				
WEIGHT: 1.982 LBS.		.251 THRU .500	+ .006 - .001	OVER 2.000	+ .015 - .005	APPROVED: T. HARDER		2/17/2012		TITLE : A-INTAKE_GEARBOX		
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DECIMAL DIMENSIONS: .XXX ±.010 .XX ±.03 .X ±.1		ON ANGULAR DIMENSIONS: MACHINED ±0°30' LOCATING ±0°30' CHAMFERS ±5°		  			SIZE:	DWG NO:		REV:
									B	A-INTAKE_GEARBOX		1
									SCALE: 1:1		SUBSYSTEM: INTAKE	



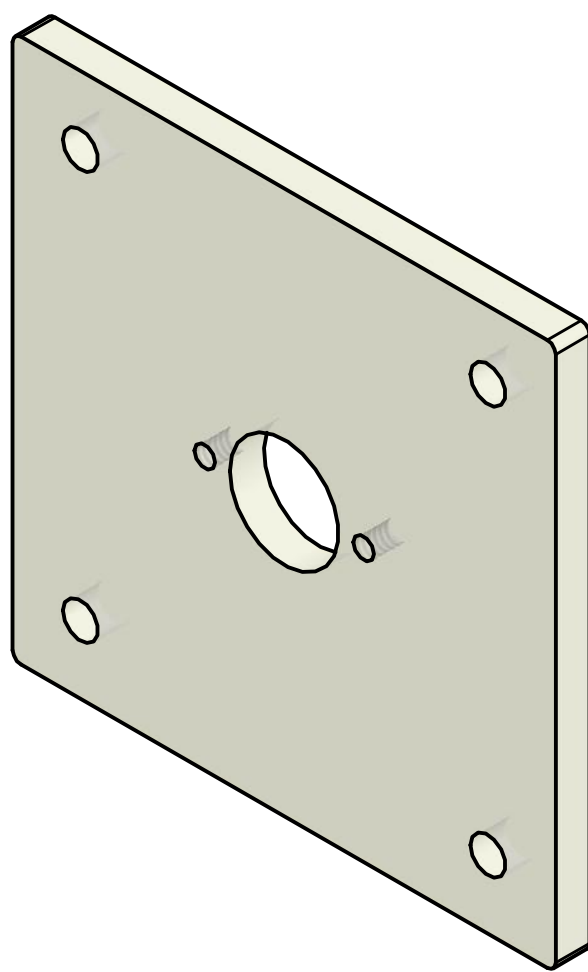
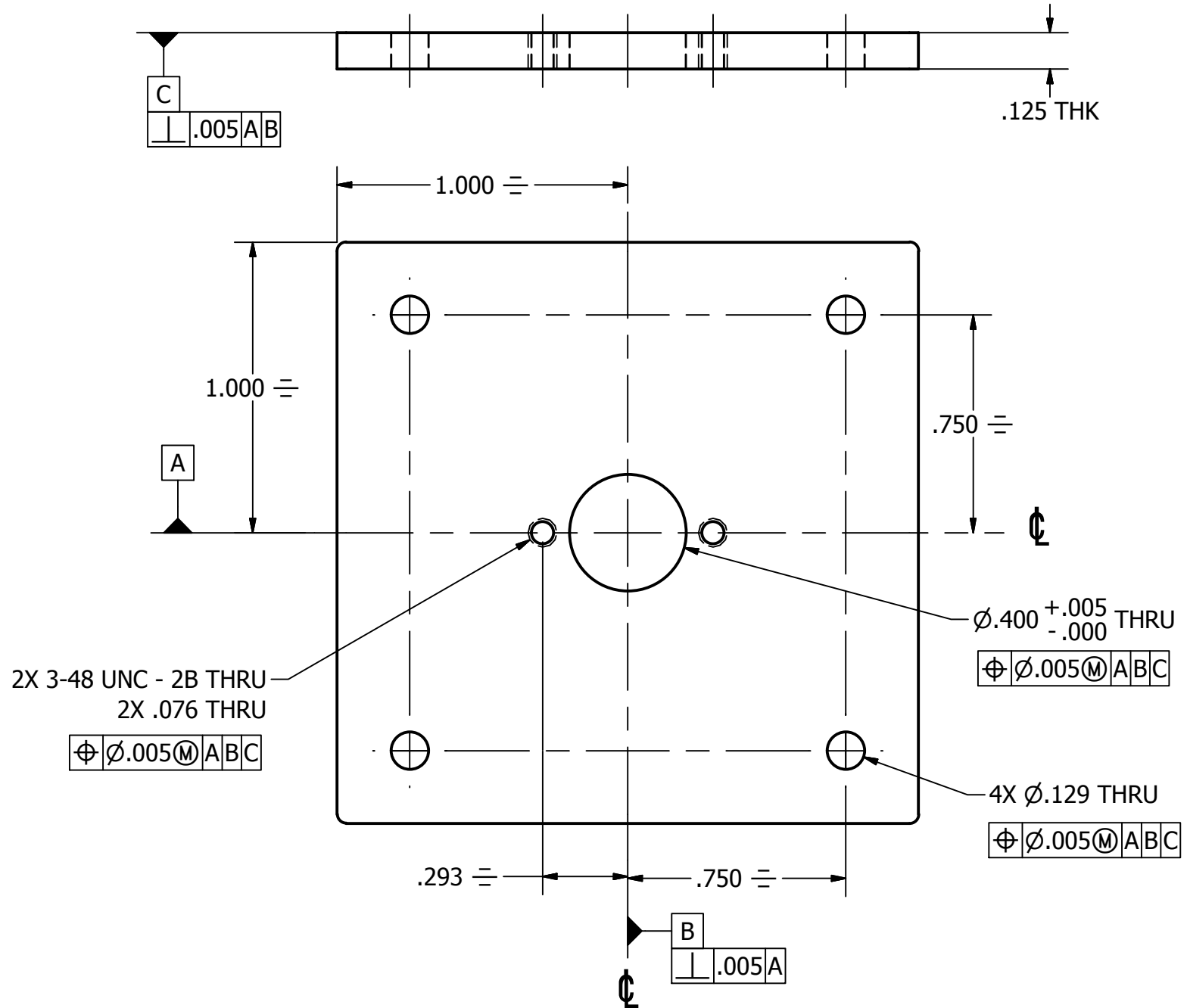
NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

MATERIAL: 1.5" X 1" X 1" .125 THK ALUMINUM 6063-T52		UNLESS OTHERWISE SPECIFIED				DRAWN : D. DOAN		2/11/2012		CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD			
		TOLERANCES ON ALL HOLE DIAMETERS				CHECKED : V. KEE		2/11/2012					
FINISH:		UNDER .014 0	+ .0020 - .0005	.500 THRU .750	+ .008 - .001	QA: L. FROSCHAUER		2/11/2012		TITLE : P-ANGLE_MOUNT			
		.014 THRU .125	+ .004 - .001	.751 THRU 1.000	+ .010 - .001	MFG: T. OSBORNE		2/11/2012					
WEIGHT: 0.033 LBS.		.126 THRU .250	+ .005 - .001	1.000 THRU 2.000	+ .012 - .001	APPROVED: T. HARDER		2/11/2012					
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DECIMAL DIMENSIONS: .XXX ±.010 .XX ±.03 .X ±.1		ON ANGULAR DIMENSIONS: MACHINED ±0°30' LOCATING ±0°30' CHAMFERS ±5°		  		SIZE:		DWG NO:		REV:	
								B		P-ANGLE_MOUNT		1	
								SCALE: 2:1		SUBSYSTEM: INTAKE GB		SHEET: 1 OF 1	

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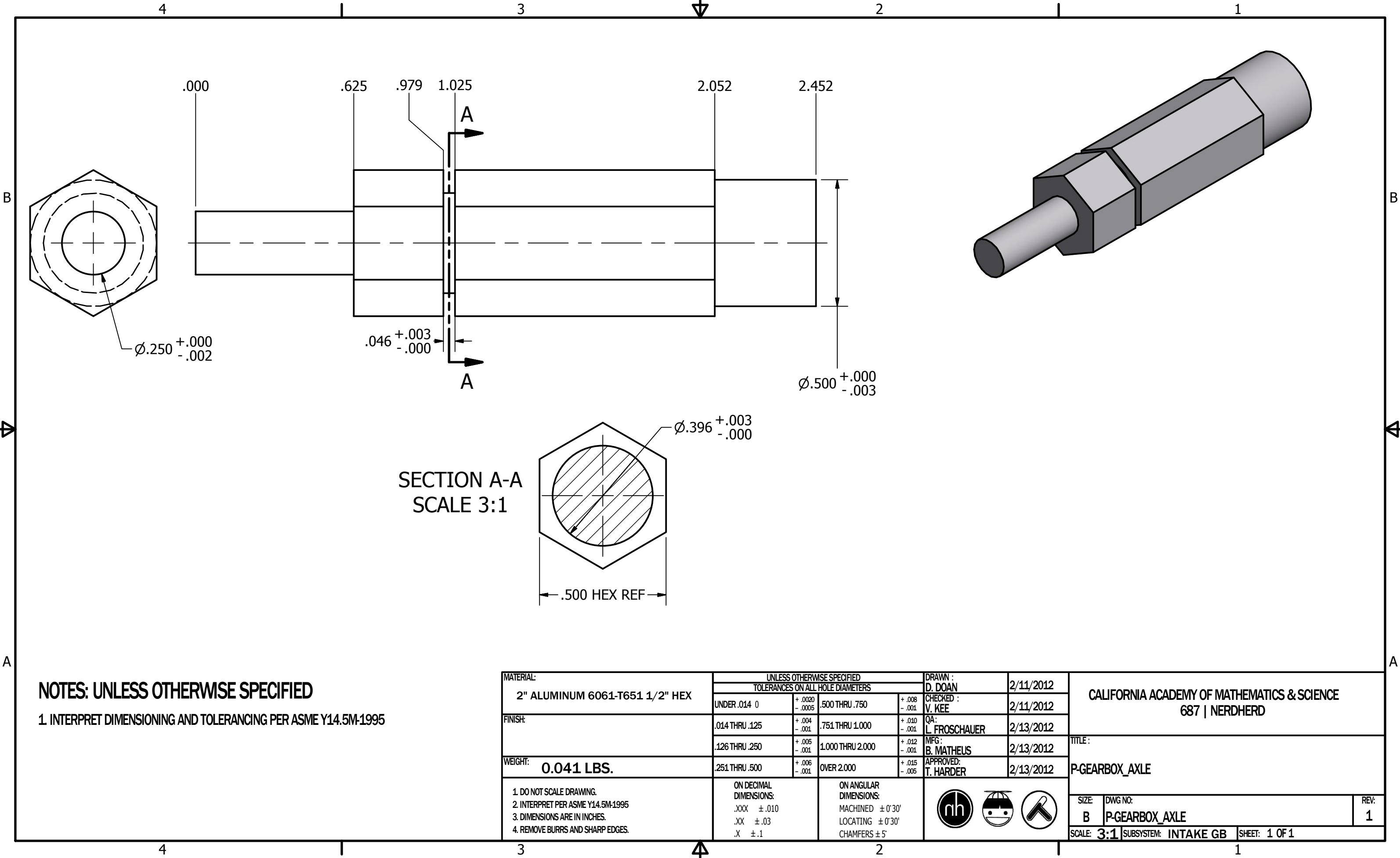
PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT



NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

MATERIAL: 2" X 2" X .125" POLYCARBONATE		UNLESS OTHERWISE SPECIFIED				DRAWN : D. DOAN		2/11/2012		CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD			
		TOLERANCES ON ALL HOLE DIAMETERS				CHECKED : V. KEE		2/11/2012					
FINISH:		UNDER .014 0	+ .0020 - .0005	.500 THRU .750	+ .008 - .001	QA: L. FROSCHAUER		2/13/2012		TITLE : P-ENCODER_MOUNT			
		.014 THRU .125	+ .004 - .001	.751 THRU 1.000	+ .010 - .001	MFG: B. MATHEUS		2/13/2012					
WEIGHT: 0.021 LBS.		.251 THRU .500	+ .006 - .001	OVER 2.000	+ .015 - .005	APPROVED: T. HARDER		2/13/2012					
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DECIMAL DIMENSIONS: .XXX ± .010 .XX ± .03 .X ± .1		ON ANGULAR DIMENSIONS: MACHINED ± 0° 30' LOCATING ± 0° 30' CHAMFERS ± 5°		  		SIZE: B		DWG NO: P-ENCODER_MOUNT		REV: 1	
		SCALE: 2:1 SUBSYSTEM: INTAKE GB SHEET: 1 OF 1											

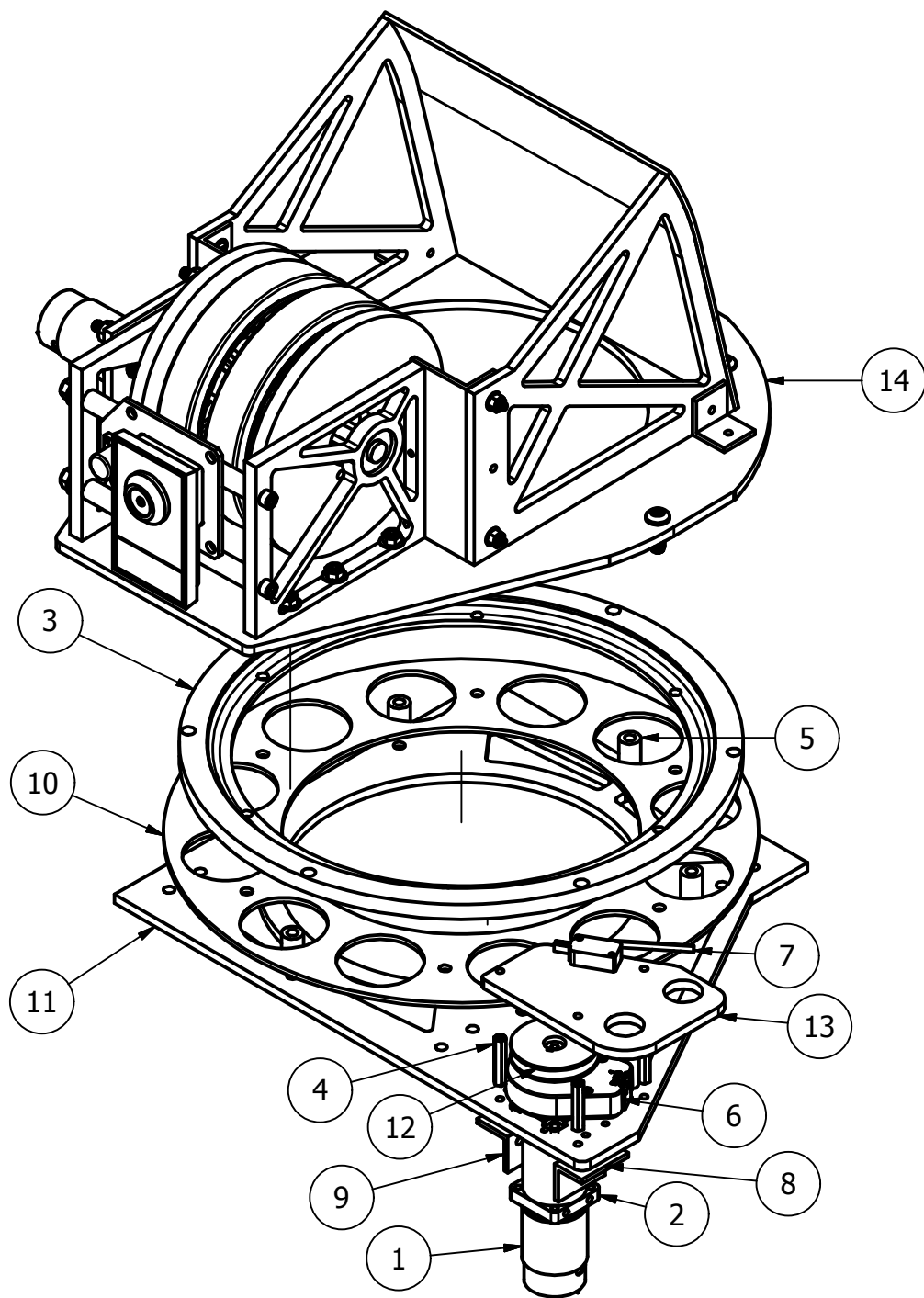


NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

MATERIAL: 2" ALUMINUM 6061-T651 1/2" HEX		UNLESS OTHERWISE SPECIFIED				DRAWN : D. DOAN		2/11/2012		CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD			
		TOLERANCES ON ALL HOLE DIAMETERS				CHECKED : V. KEE		2/11/2012					
FINISH:		UNDER .014 0	+ .0020 - .0005	.500 THRU .750	+ .008 - .001	QA: L. FROSCHAUER		2/13/2012		TITLE : P-GEARBOX_AXLE			
		.014 THRU .125	+ .004 - .001	.751 THRU 1.000	+ .010 - .001	MFG: B. MATHEUS		2/13/2012					
WEIGHT: 0.041 LBS.		.251 THRU .500	+ .006 - .001	OVER 2.000	+ .015 - .005	APPROVED: T. HARDER		2/13/2012					
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DECIMAL DIMENSIONS: .XXX ± .010 .XX ± .03 .X ± .1		ON ANGULAR DIMENSIONS: MACHINED ± 0°30' LOCATING ± 0°30' CHAMFERS ± 5°		  		SIZE:		DWG NO:		REV:	
								B		P-GEARBOX_AXLE		1	
								SCALE: 3:1		SUBSYSTEM: INTAKE GB		SHEET: 1 OF 1	



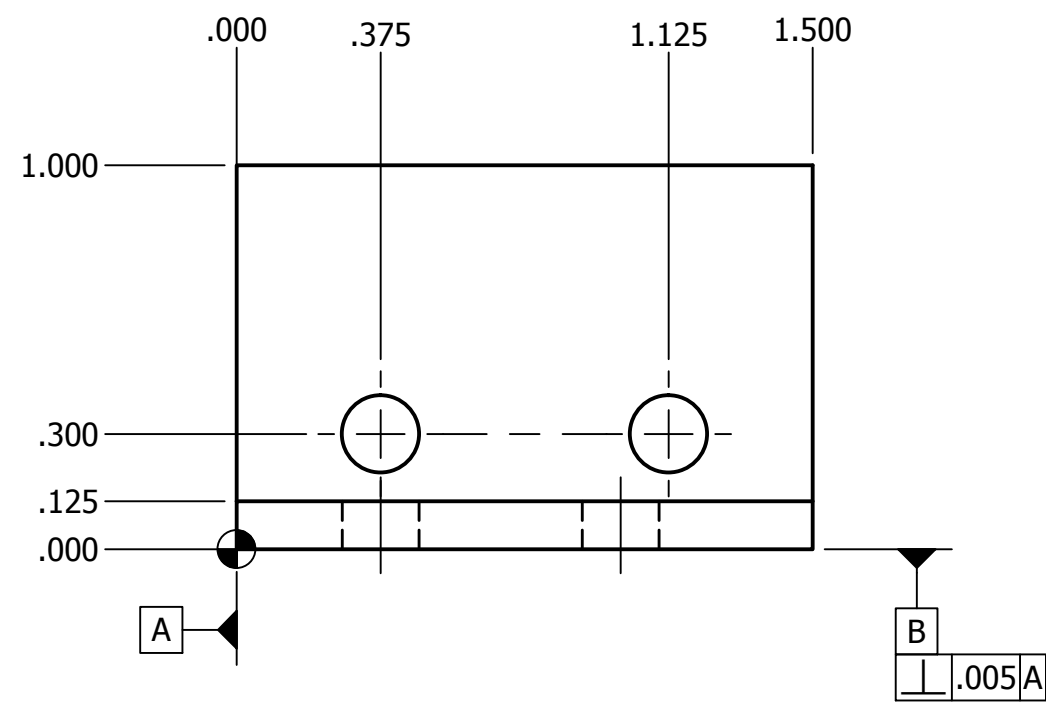
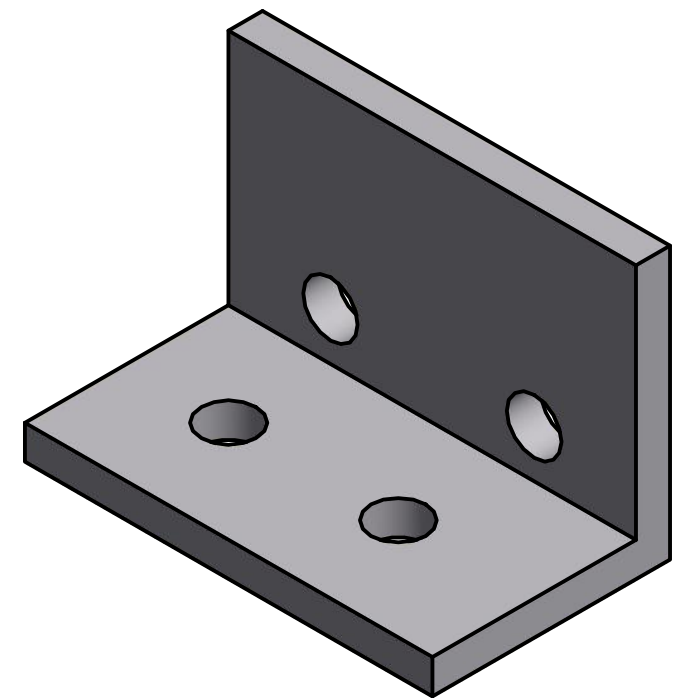
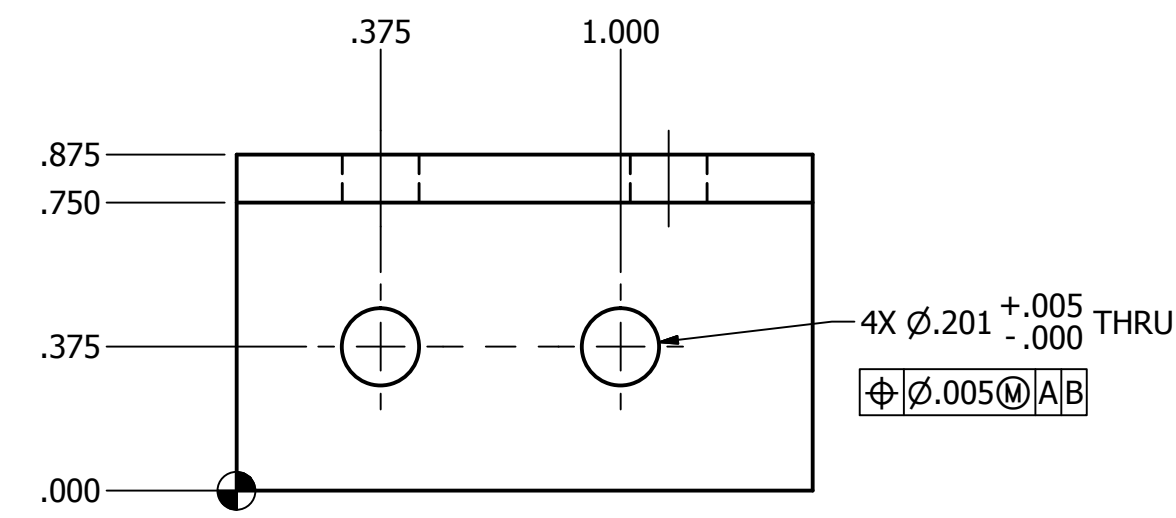


PARTS LIST		
ITEM	QTY	PART NUMBER
1	1	BBMS55012-RS550_MOTOR_12V
2	1	BBP60K4440004-P60_64:1_PLANETARY
3	1	MC18635A520-LAZY_SUSAN
4	3	MC91115A202-8x32_STANDOFF_1.25IN
5	6	MC92510A767-.5_OD_SPACER_ALUM
6	1	UDE6X500XSHX-ENCODER
7	1	V72B17D8048-MICROSWITCH
8	1	P-ANGLE_MOUNT_LEFT
9	1	P-ANGLE_MOUNT_RIGHT
10	1	P-BOTTOM_PLATE
11	1	P-LAZY_SUSAN_ADAPTER
12	1	P-LAZY_SUSAN_PULLEY
13	1	P-LIMIT_SWITCH_PLATE
14	1	A-SHOOTER

NOTES: UNLESS OTHERWISE SPECIFIED

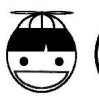
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

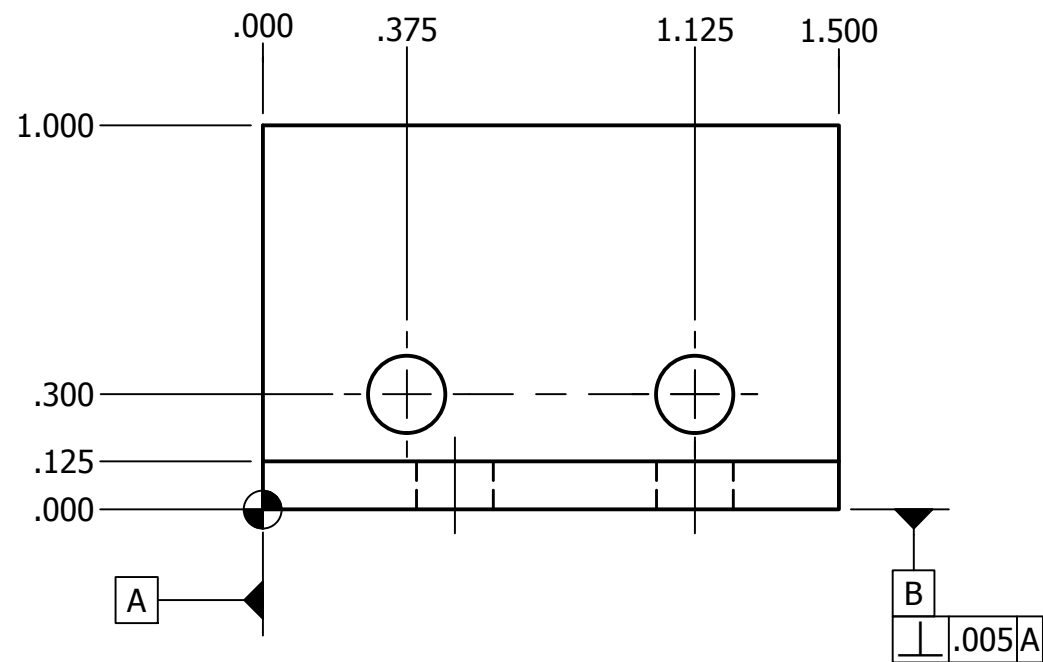
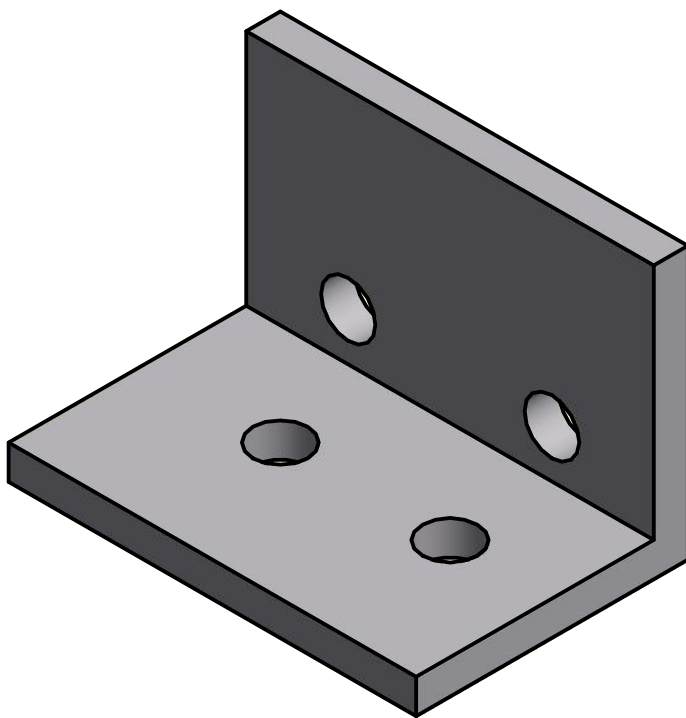
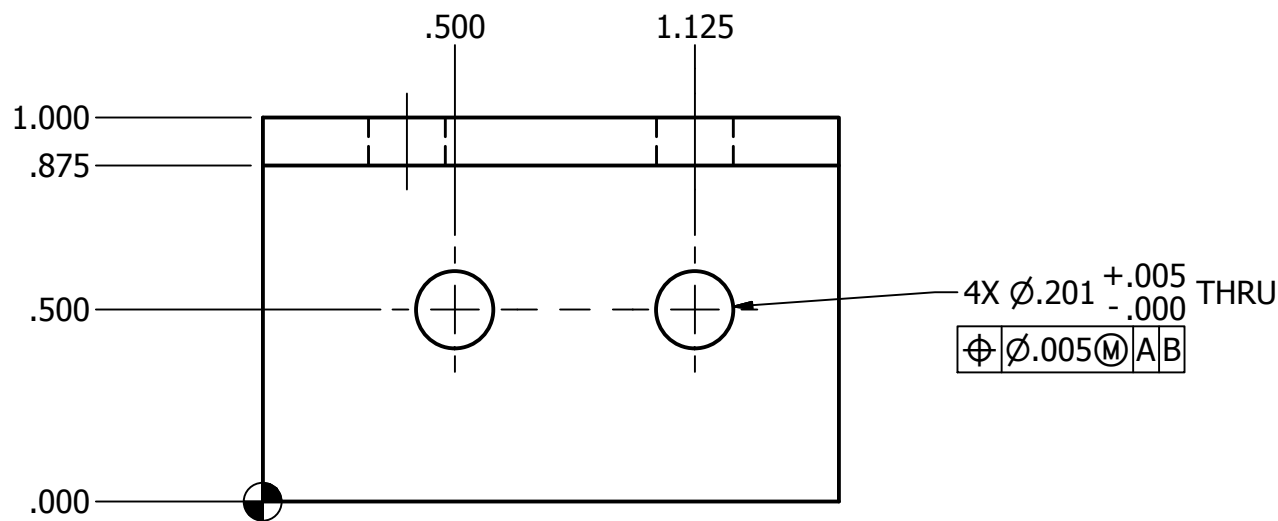
MATERIAL:	UNLESS OTHERWISE SPECIFIED				DRAWN :	2/11/2012	CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD		
	TOLERANCES ON ALL HOLE DIAMETERS				V. KEE	2/11/2012			
FINISH:	UNDER .014 0	+ .0020 - .0005	.500 THRU .750	+ .008 - .001	CHECKED : V. KEE	2/11/2012			
	.014 THRU .125	+ .004 - .001	.751 THRU 1.000	+ .010 - .001	QA: L. FROSCHAUER	2/17/2012			
WEIGHT:	.126 THRU .250	+ .005 - .001	1.000 THRU 2.000	+ .012 - .001	MFG: V. KEE	2/17/2012	TITLE : A-ROTATION		
	.251 THRU .500	+ .006 - .001	OVER 2.000	+ .015 - .005	APPROVED: T. HARDER	2/17/2012			
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DECIMAL DIMENSIONS:		ON ANGULAR DIMENSIONS:		  			
		.XXX ±.010 .XX ±.03 .X ±.1		MACHINED ± 0°30' LOCATING ± 0°30' CHAMFERS ± 5°					
						SIZE: B DWG NO: A-COMPETITION-ROTATION REV: 1			
						SCALE: 1:4 SUBSYSTEM: ROTATION SHEET: 1 OF 1			



NOTES: UNLESS OTHERWISE SPECIFIED

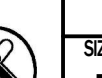
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

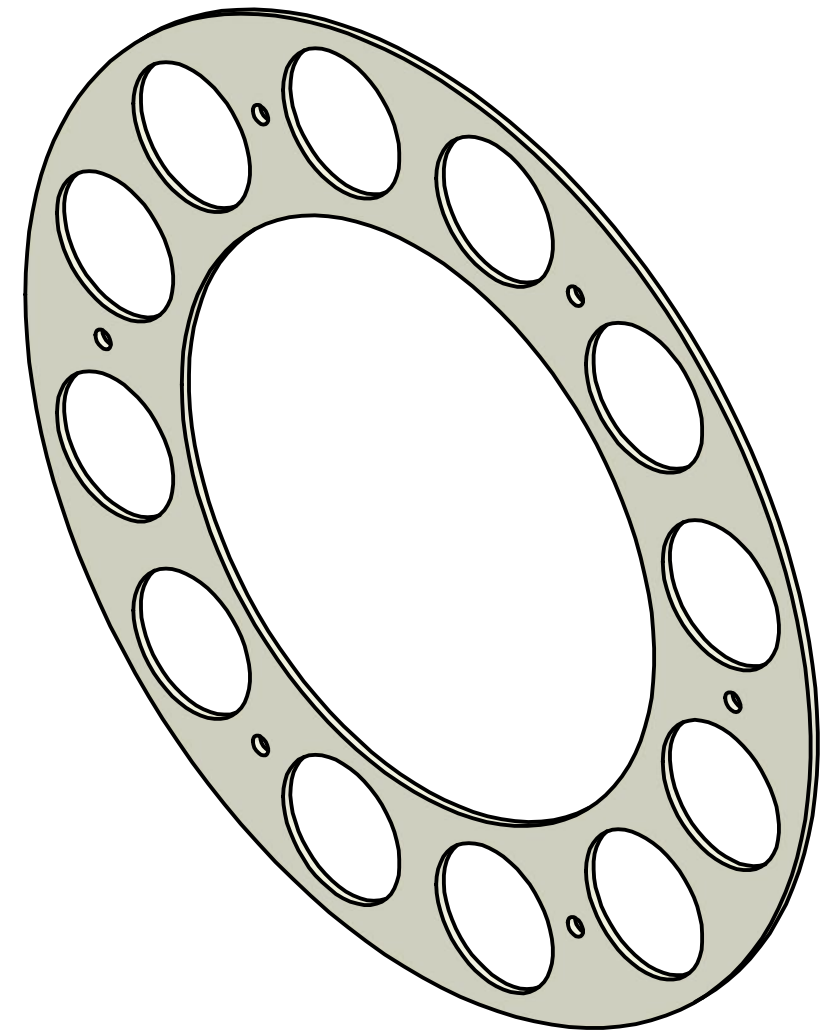
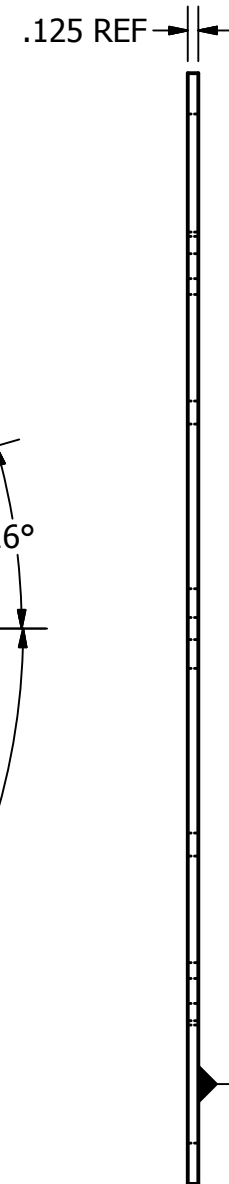
MATERIAL: 1.5" 1" X 1" X .125" ALUM 6061-T651	UNLESS OTHERWISE SPECIFIED TOLERANCES ON ALL HOLE DIAMETERS				DRAWN : O. MIAH	2/17/2012	CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD		
	UNDER .014 0	$\begin{matrix} +.0020 \\ -.0005 \end{matrix}$	.500 THRU .750	$\begin{matrix} +.008 \\ -.001 \end{matrix}$	CHECKED : V. KEE	2/17/2012			
	.014 THRU .125	$\begin{matrix} +.004 \\ -.001 \end{matrix}$	.751 THRU 1.000	$\begin{matrix} +.010 \\ -.001 \end{matrix}$	QA: L. FROSCHAUER	2/20/2012			
	.126 THRU .250	$\begin{matrix} +.005 \\ -.001 \end{matrix}$	1.000 THRU 2.000	$\begin{matrix} +.012 \\ -.001 \end{matrix}$	MFG: T. OSBORNE	2/20/2012	TITLE: P-ANGLE_MOUNT_LEFT		
WEIGHT: 0.036 LBS.	.251 THRU .500	$\begin{matrix} +.006 \\ -.001 \end{matrix}$	OVER 2.000	$\begin{matrix} +.015 \\ -.005 \end{matrix}$	APPROVED: T. HARDER	2/20/2012			
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.	ON DECIMAL DIMENSIONS: .XXX ±.010 .XX ±.03 .X ±.1		ON ANGULAR DIMENSIONS: MACHINED ±0°30' LOCATING ±0°30' CHAMFERS ±5°		  		SIZE: B	DWG NO: P-ANGLE_MOUNT_LEFT	REV: 1
							SCALE: 2:1	SUBSYSTEM: ROTATION	SHEET: 1 OF 1



NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

MATERIAL: 1.5" 1" x 1" x .125" ALUM 6061-T651		UNLESS OTHERWISE SPECIFIED				DRAWN : O. MIAH		2/17/2012		CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD					
		TOLERANCES ON ALL HOLE DIAMETERS				CHECKED : V. KEE		2/17/2012							
FINISH:		UNDER .014 0	+ .0020 - .0005	.500 THRU .750	+ .008 - .001	QA: L. FROSCHAUER		2/20/2012		TITLE : P-ANGLE_MOUNT_RIGHT					
		.014 THRU .125	+ .004 - .001	.751 THRU 1.000	+ .010 - .001	MFG : T. OSBORNE		2/20/2012							
WEIGHT: 0.036 LBS.		.126 THRU .250	+ .005 - .001	1.000 THRU 2.000	+ .012 - .001	APPROVED: T. HARDER		2/20/2012							
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DECIMAL DIMENSIONS:		ON ANGULAR DIMENSIONS:		  									
		.XXX ±.010		MACHINED ± 0°30'						SIZE: B		DWG NO: P-ANGLE_MOUNT_RIGHT		REV: 1	
		.XX ±.03		LOCATING ± 0°30'											
		.X ±.1		CHAMFERS ± 5°											
										SCALE: 2:1		SUBSYSTEM: ROTATION		SHEET: 1 OF 1	

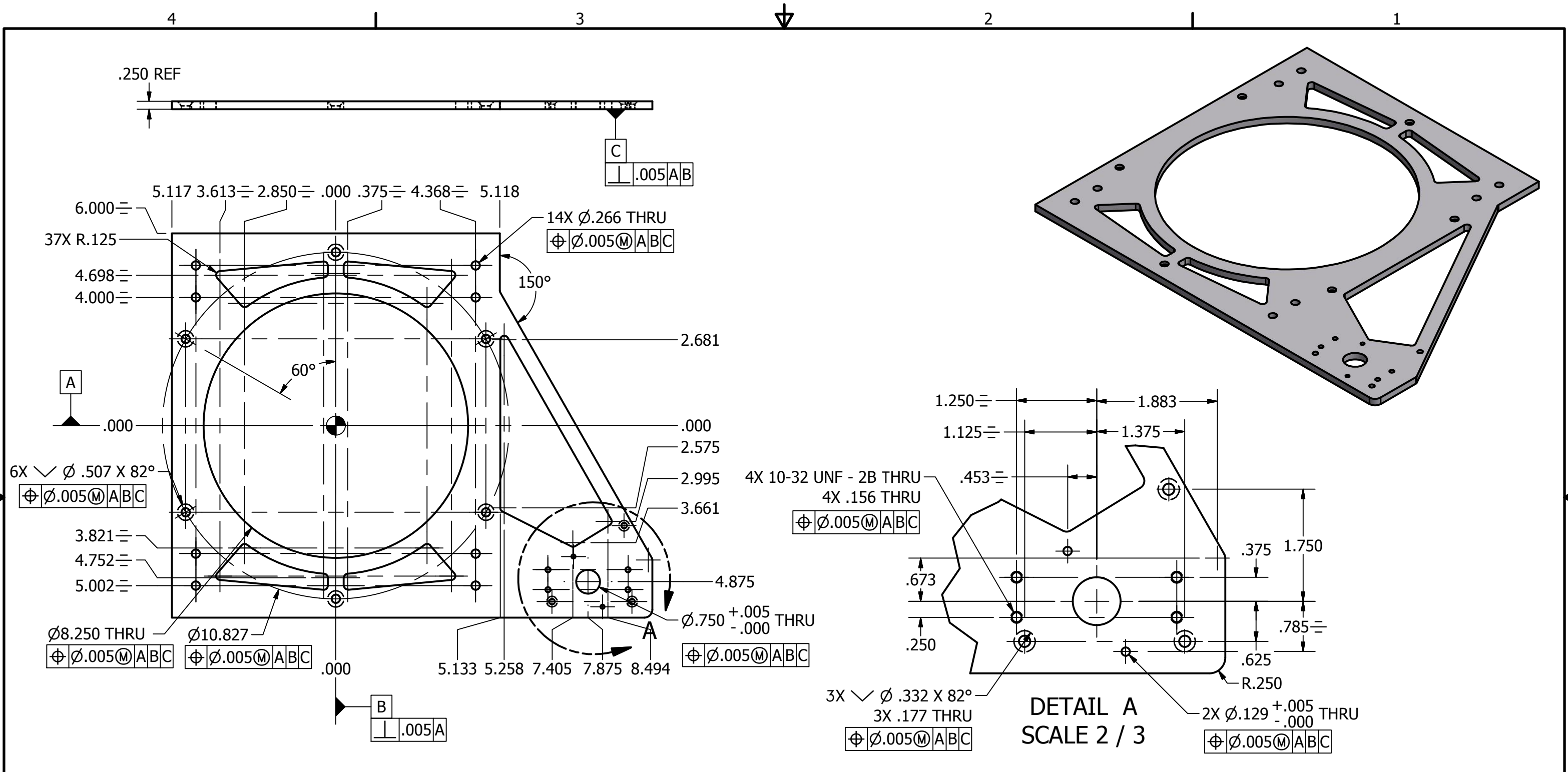


1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

MATERIAL: 14" X 14" X .125" POLYCARBONATE		UNLESS OTHERWISE SPECIFIED			DRAWN : O. MIAH	2/13/2012	CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD			
		TOLERANCES ON ALL HOLE DIAMETERS			CHECKED : V. KEE	2/13/2012				
FINISH:		UNDER .014 0	+ .0020 - .0005	.500 THRU .750	+ .008 - .001	QA: L. FROSCHAUER				2/17/2012
		.014 THRU .125	+ .004 - .001	.751 THRU 1.000	+ .010 - .001	MFG: N. DADEH				2/17/2012
WEIGHT: 0.289 LBS.		.126 THRU .250	+ .005 - .001	1.000 THRU 2.000	+ .012 - .001	APPROVED: T. HARDER	2/17/2012	TITLE : P-BOTTOM_PLATE		
		.251 THRU .500	+ .006 - .001	OVER 2.000	+ .015 - .005					
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DECIMAL DIMENSIONS: .XXX ±.010 .XX ±.03 .X ±.1		ON ANGULAR DIMENSIONS: MACHINED ±0°30' LOCATING ±0°30' CHAMFERS ±5°		  				
		SIZE: B DWG NO: P-BOTTOM_PLATE REV: 1								
SCALE: 3:7 SUBSYSTEM: ROTATION SHEET: 1 OF 1										

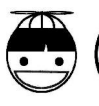
PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT



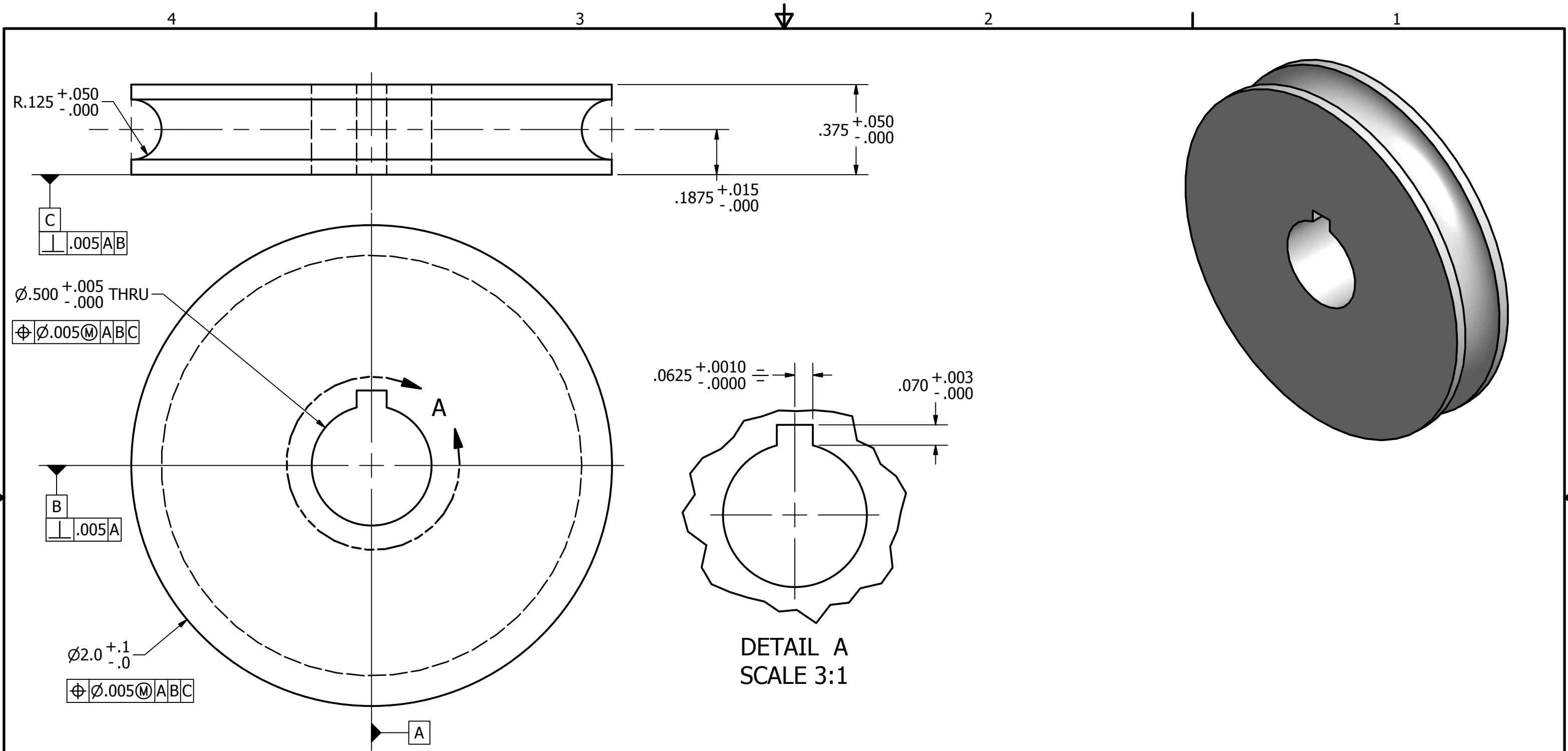
NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

MATERIAL: 15" X 12" X .25" ALUMINUM 6061-T651	UNLESS OTHERWISE SPECIFIED TOLERANCES ON ALL HOLE DIAMETERS				DRAWN : O. MIAH	2/15/2012	CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD		
	UNDER .014 0	+ .0020 - .0005	.500 THRU .750	+ .008 - .001	CHECKED : V. KEE	2/15/2012			
	.014 THRU .125	+ .004 - .001	.751 THRU 1.000	+ .010 - .001	QA: L. FROSCHAUER	2/17/2012			
	.126 THRU .250	+ .005 - .001	1.000 THRU 2.000	+ .012 - .001	MFG: M. FERRER	2/17/2012			
WEIGHT: 1.826 LBS.	.251 THRU .500	+ .006 - .001	OVER 2.000	+ .015 - .005	APPROVED: T. HARDER	2/17/2012	TITLE: P-LAZY_SUSAN_ADAPTOR		
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.			ON DECIMAL DIMENSIONS: .XXX ±.010 .XX ±.03 .X ±.1	ON ANGULAR DIMENSIONS: MACHINED ±0°30' LOCATING ±0°30' CHAMFERS ±5°	  		SIZE: B	DWG NO: P-LAZY_SUSAN_ADAPTER	REV: 1
						SCALE: 1:3	SUBSYSTEM: ROTATION	SHEET: 1 OF 1	

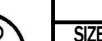
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PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT



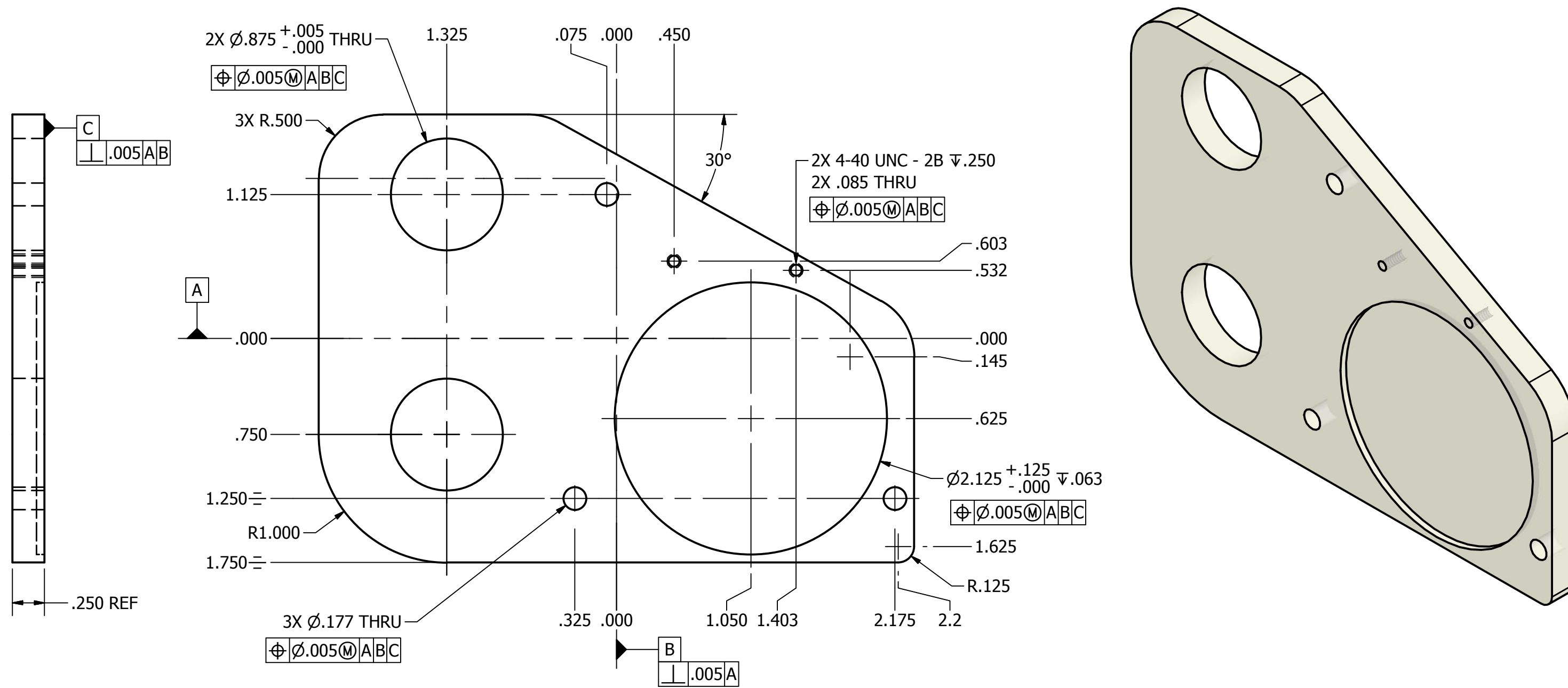
NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

MATERIAL: Ø2.0" X .375" ACETAL RESIN	UNLESS OTHERWISE SPECIFIED				DRAWN : V. KEE	2/17/2012	CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD			
	TOLERANCES ON ALL HOLE DIAMETERS				CHECKED : V. KEE	2/17/2012				
FINISH:	UNDER .014 0	+ .0020 - .0005	.500 THRU .750	+ .008 - .001	QA: L. FROSCHAUER	2/17/2012	TITLE : P-LAZY_SUSAN_PULLEY			
	.014 THRU .125	+ .004 - .001	.751 THRU 1.000	+ .010 - .001	MFG : B. MATHEUS	2/17/2012				
WEIGHT: 0.049 LBS.	.126 THRU .250	+ .005 - .001	1.000 THRU 2.000	+ .012 - .001	APPROVED: T. HARDER	2/17/2012				
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.	ON DECIMAL DIMENSIONS: .XXX ±.010 .XX ±.03 .X ±.1		ON ANGULAR DIMENSIONS: MACHINED ±0°30' LOCATING ±0°30' CHAMFERS ±5°		  			SIZE: B	DWG NO: P-LAZY_SUSAN_PULLEY	REV: 1
						SCALE: 5:2			SUBSYSTEM: ROTATION	SHEET: 1 OF 1

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

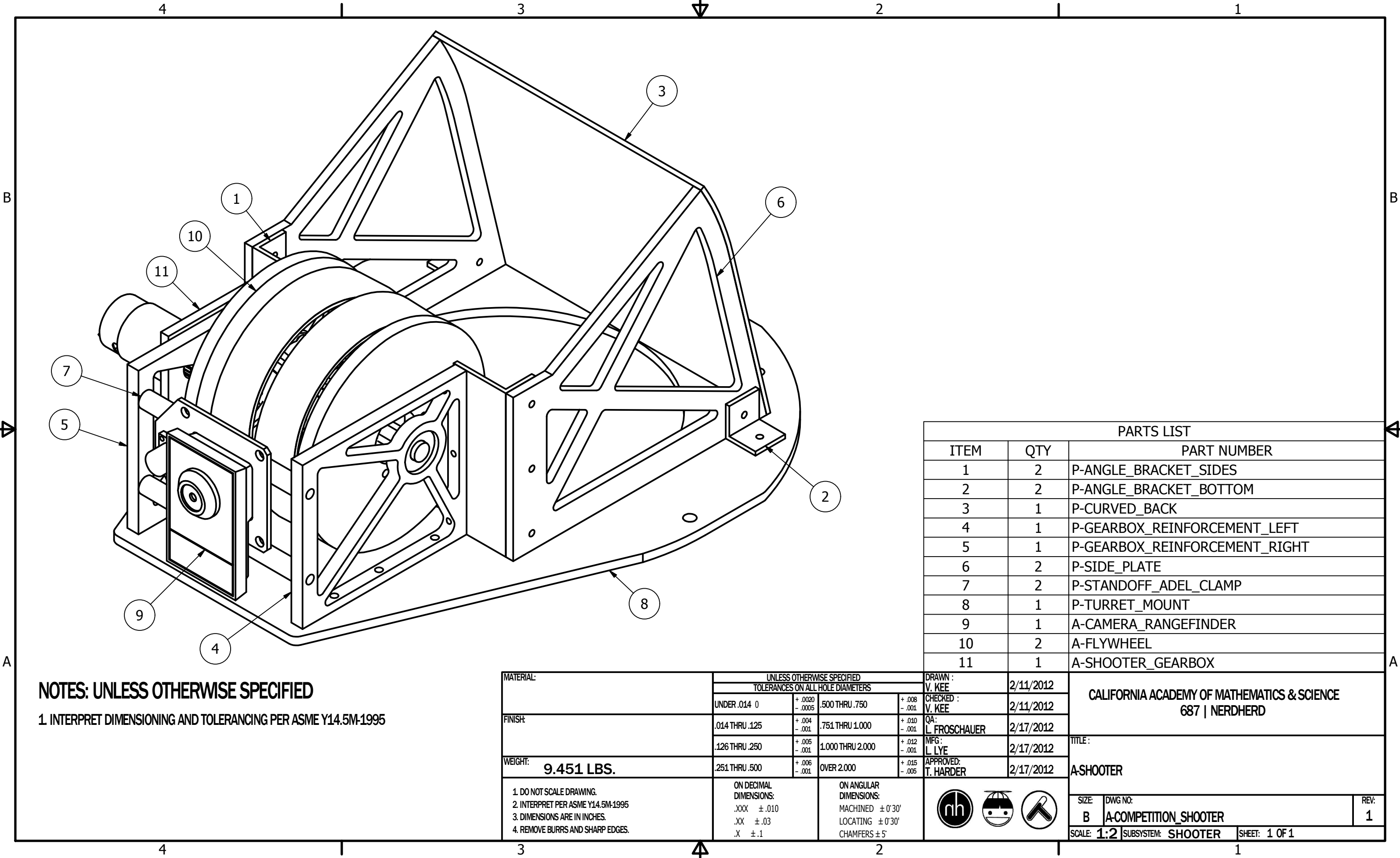
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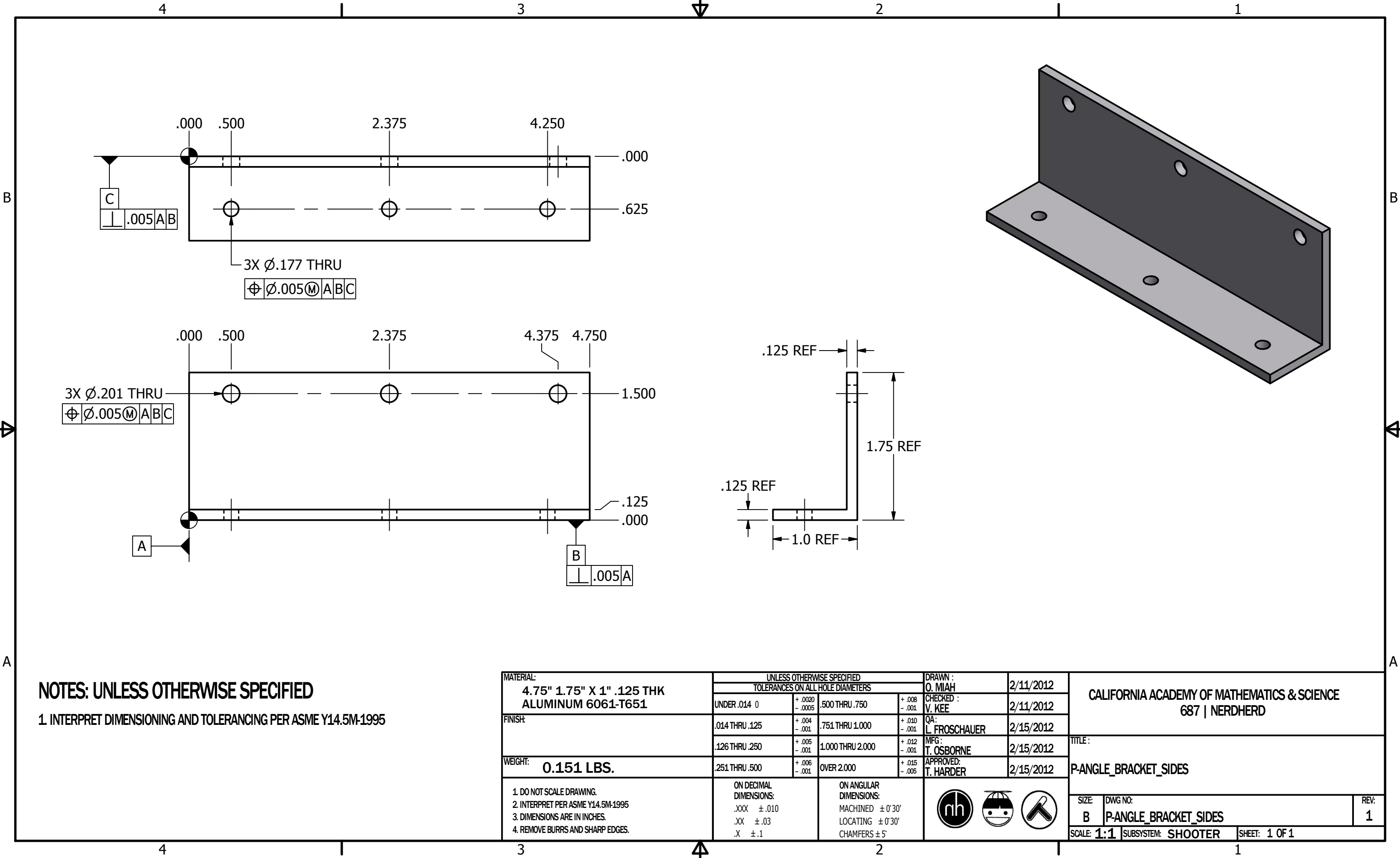


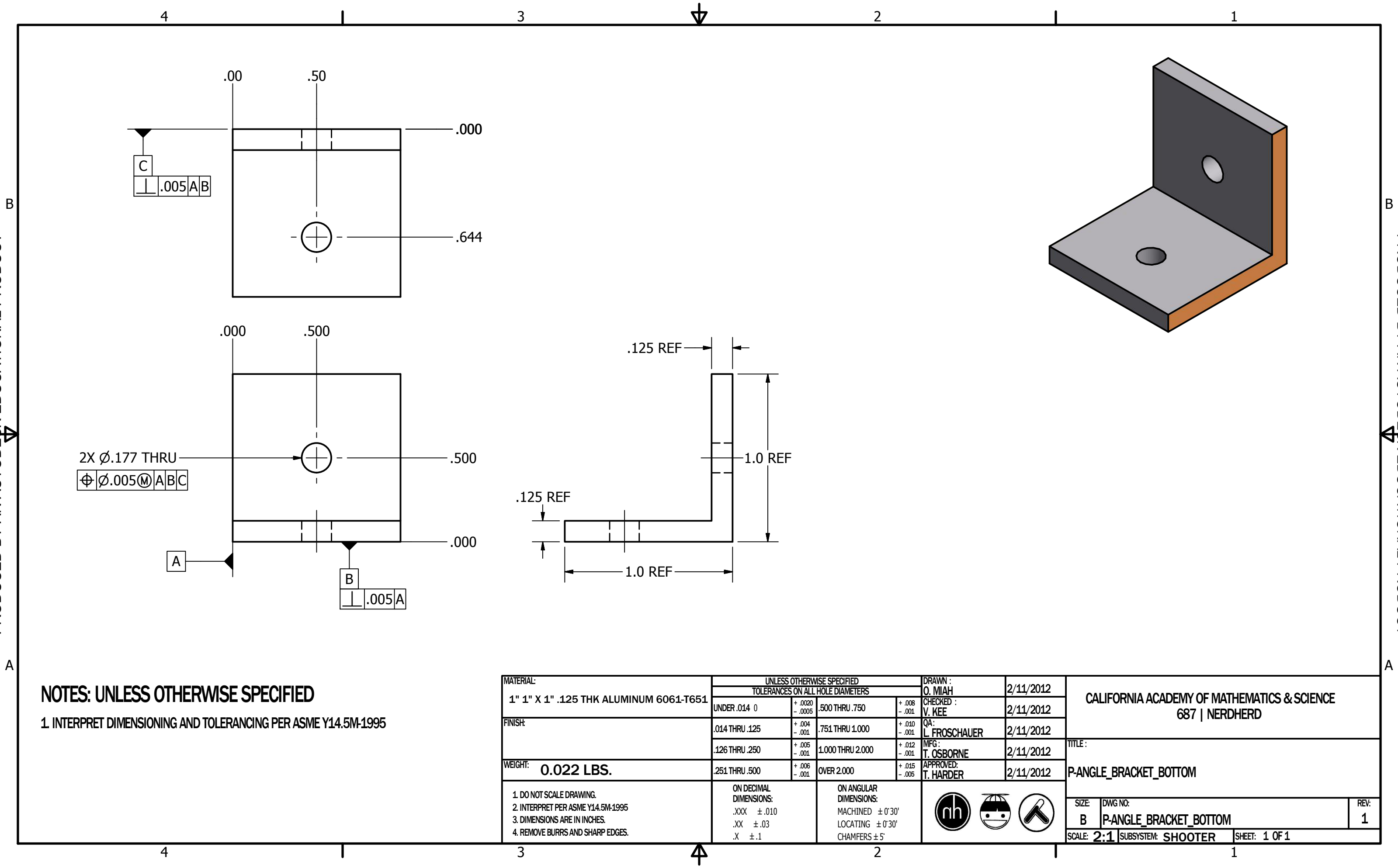
NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

MATERIAL: 4.65" X 3.5" X .25" POLYCARBONATE		UNLESS OTHERWISE SPECIFIED				DRAWN : O. MIAH		2/17/2012		CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD			
		TOLERANCES ON ALL HOLE DIAMETERS				CHECKED : V. KEE		2/17/2012					
FINISH:		UNDER .014 0	+ .0020 - .0005	.500 THRU .750	+ .008 - .001	QA: L. FROSCHAUER		2/17/2012		TITLE : P-LIMIT_SWITCH_PLATE			
		.014 THRU .125	+ .004 - .001	.751 THRU 1.000	+ .010 - .001	MFG: V. KEE		2/17/2012					
WEIGHT: 0.125 LBS.		.126 THRU .250	+ .005 - .001	1.000 THRU 2.000	+ .012 - .001	APPROVED: T. HARDER		2/17/2012					
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DECIMAL DIMENSIONS: .XXX ± .010 .XX ± .03 .X ± .1		ON ANGULAR DIMENSIONS: MACHINED ± 0° 30' LOCATING ± 0° 30' CHAMFERS ± 5°		  		SIZE: B		DWG NO: P-LIMIT_SWITCH_PLATE		REV: 1	
		SCALE: 5:4 SUBSYSTEM: ROTATION SHEET: 1 OF 1											







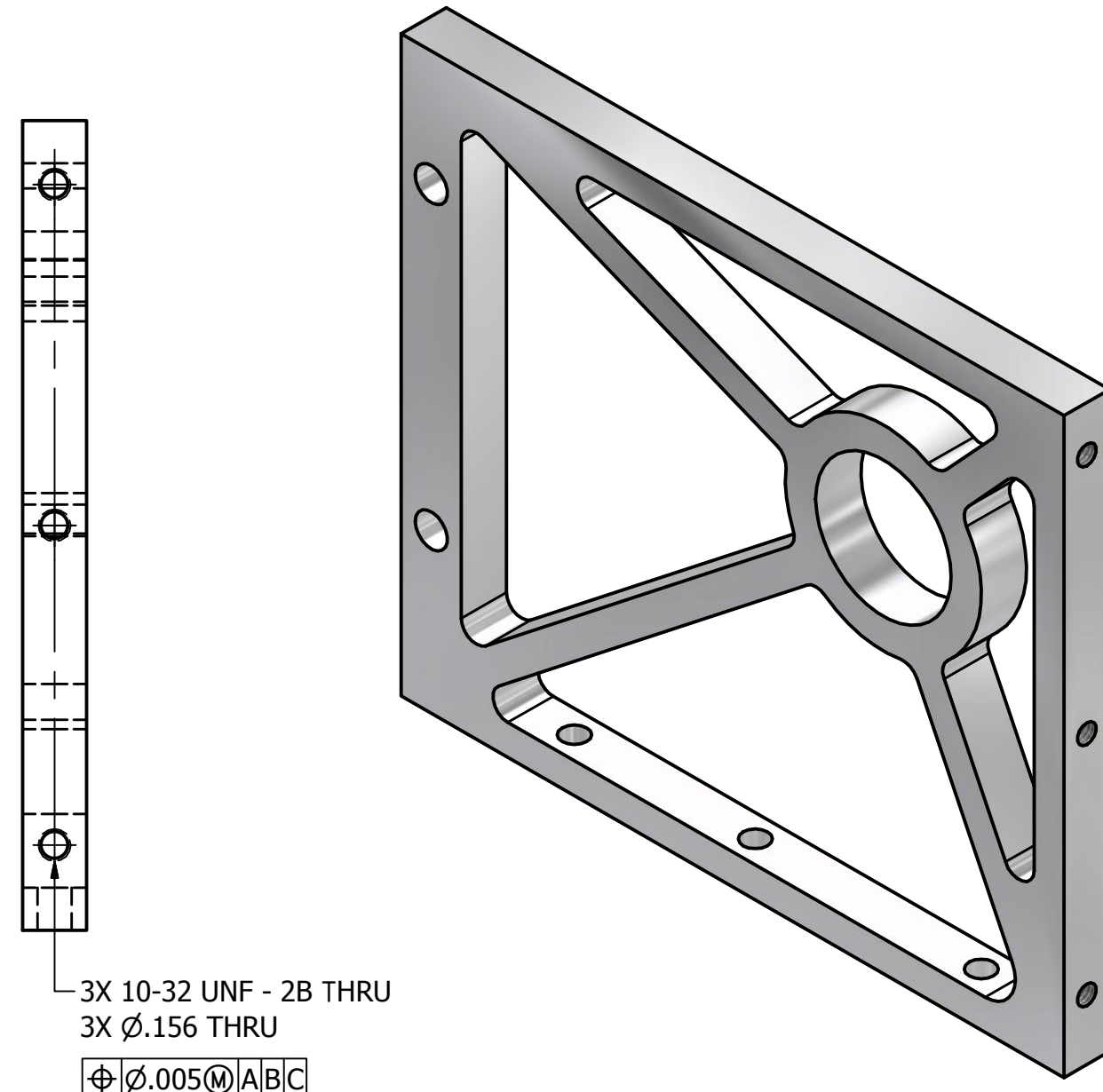
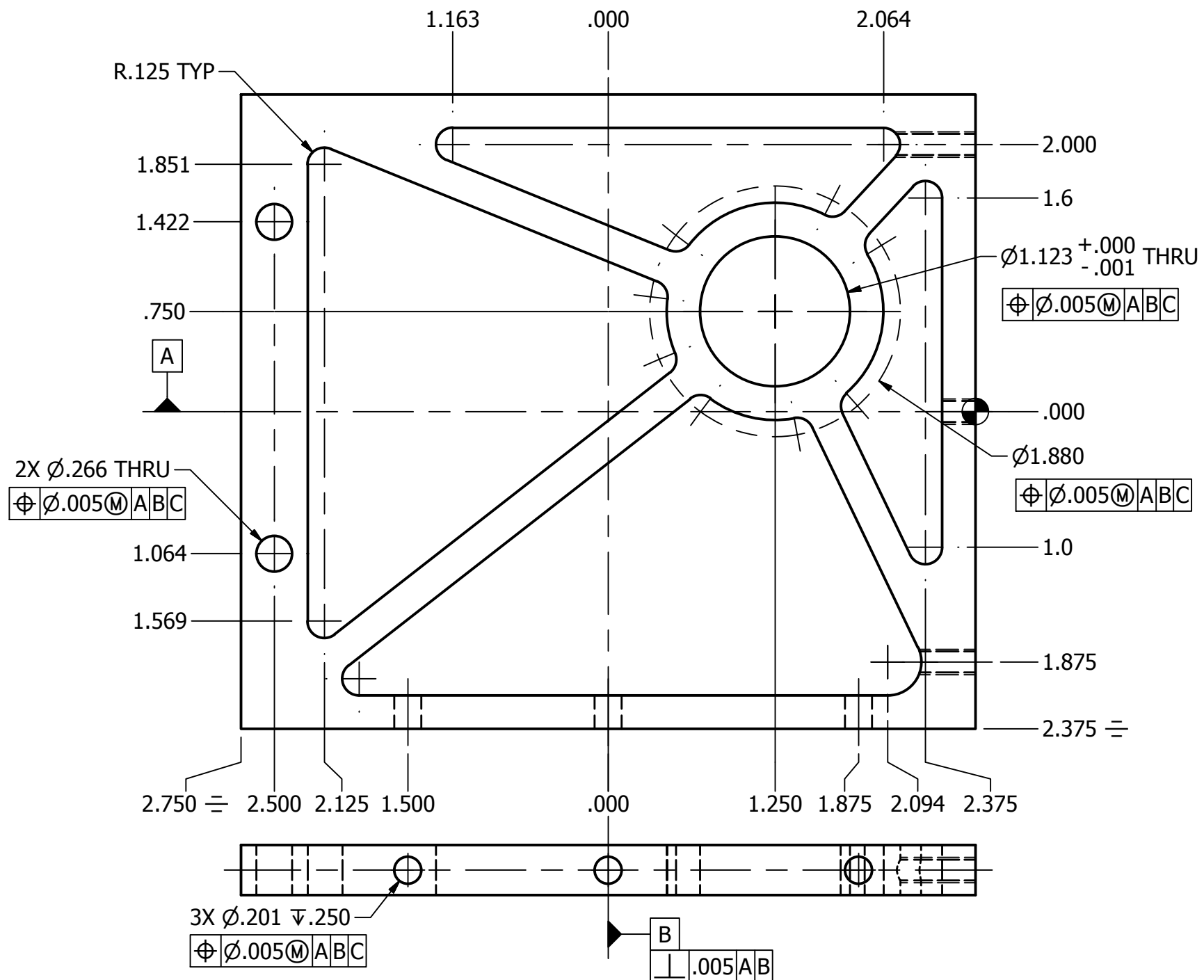
NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

MATERIAL:		UNLESS OTHERWISE SPECIFIED				DRAWN :		CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD							
1" 1" X 1" .125 THK ALUMINUM 6061-T651		TOLERANCES ON ALL HOLE DIAMETERS				O. MIAH				2/11/2012					
		UNDER .014 0		+ .0020 - .0005		.500 THRU .750				+ .008 - .001		CHECKED : V. KEE		2/11/2012	
FINISH:		.014 THRU .125		+ .004 - .001		.751 THRU 1.000				+ .010 - .001		QA: L. FROSCHAUER		2/11/2012	
		.126 THRU .250		+ .005 - .001		1.000 THRU 2.000				+ .012 - .001		MFG: T. OSBORNE		2/11/2012	
WEIGHT: 0.022 LBS.		.251 THRU .500		+ .006 - .001		OVER 2.000		+ .015 - .005		APPROVED: T. HARDER		2/11/2012		TITLE :	
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DECIMAL DIMENSIONS: .XXX ±.010 .XX ±.03 .X ±.1		ON ANGULAR DIMENSIONS: MACHINED ±0°30' LOCATING ±0°30' CHAMFERS ±5°		  		SIZE:		DWG NO:		REV:			
								B		P-ANGLE_BRACKET_BOTTOM		1			
								SCALE: 2:1		SUBSYSTEM: SHOOTER		SHEET: 1 OF 1			

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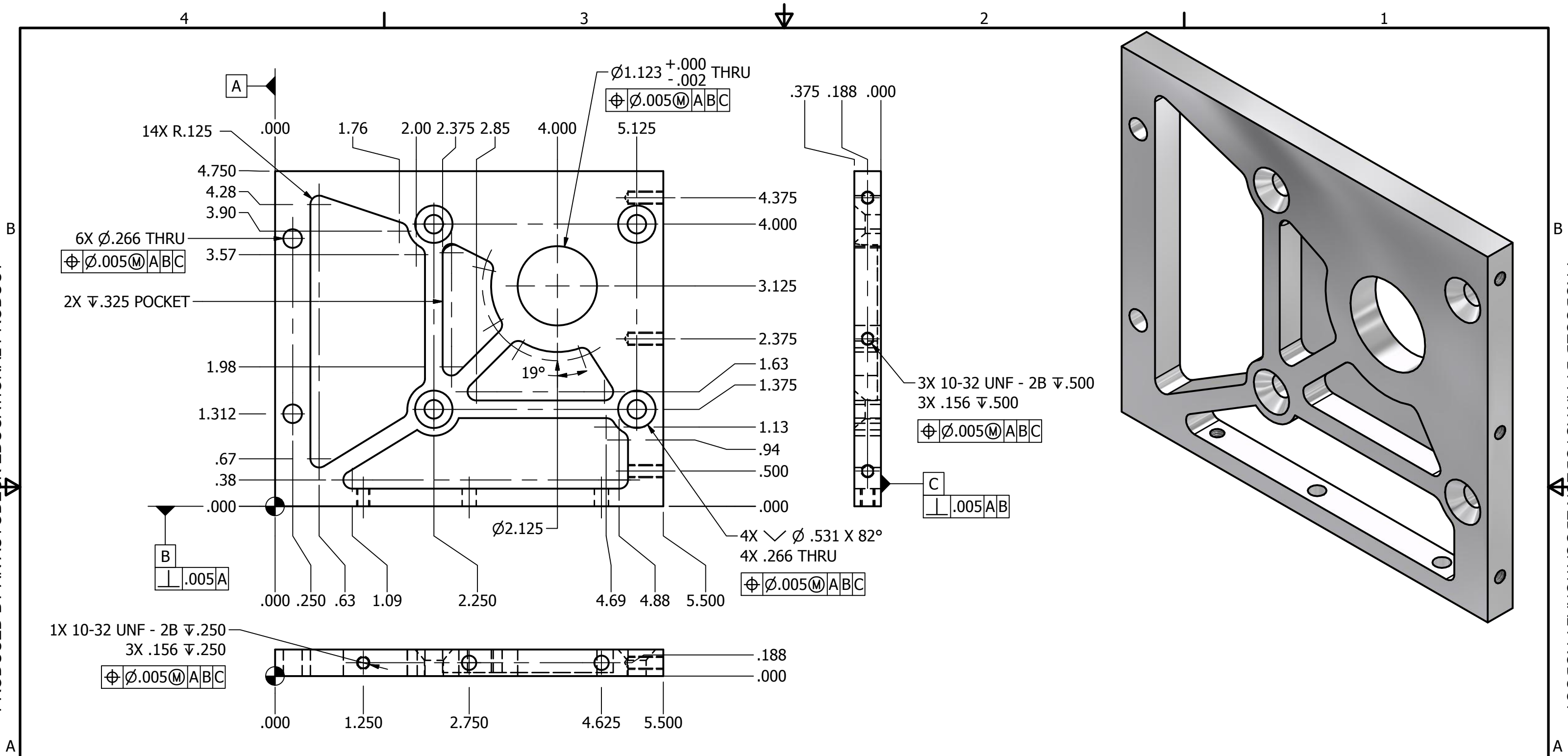
PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT



NOTES: UNLESS OTHERWISE SPECIFIED

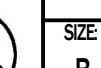
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

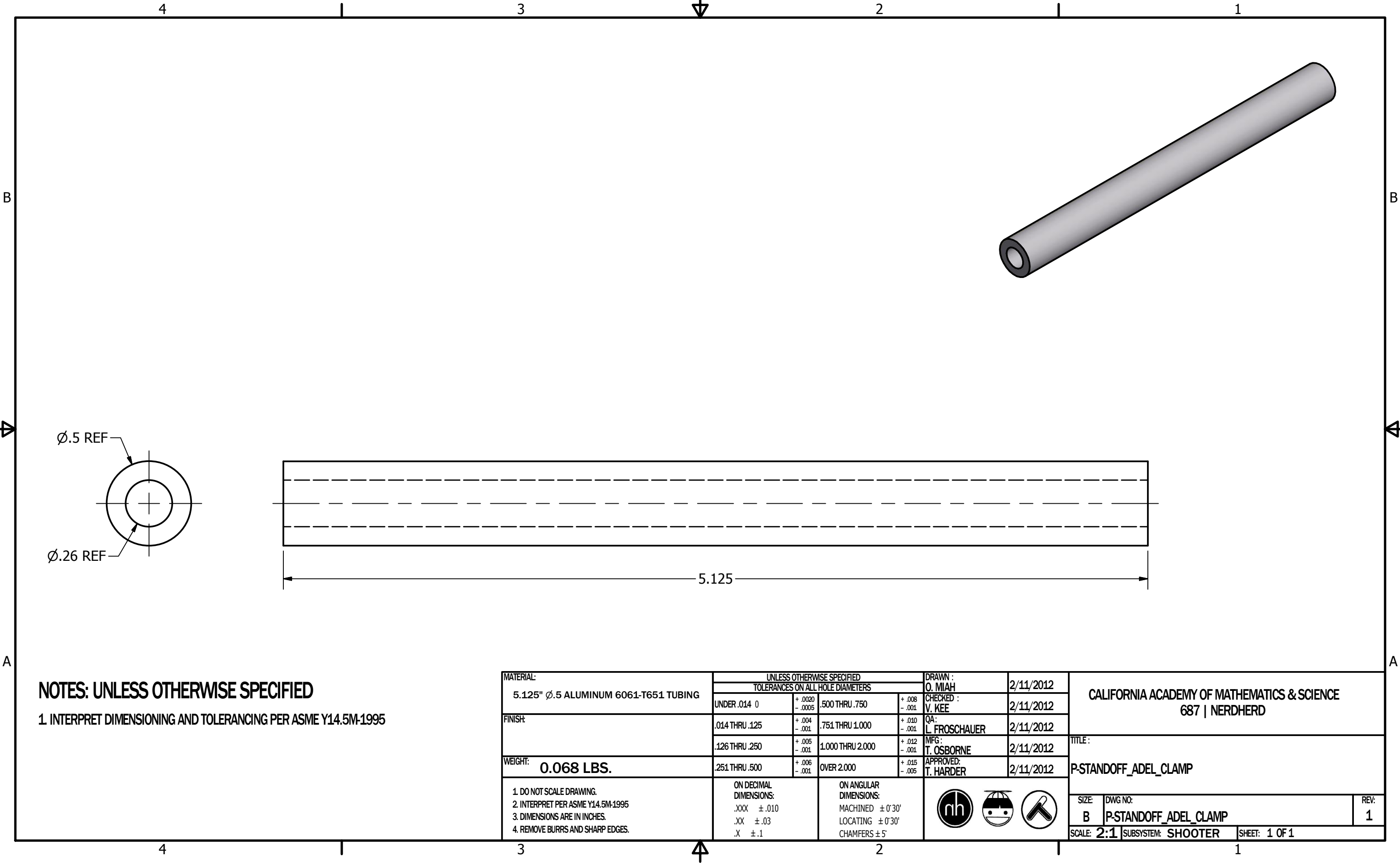
MATERIAL: 5.5" X 4.75" X .25" ALUMINUM 6061-T651		UNLESS OTHERWISE SPECIFIED				DRAWN : O. MIAH		2/12/2012		CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD			
		TOLERANCES ON ALL HOLE DIAMETERS				CHECKED : V. KEE		2/12/2012					
FINISH:		UNDER .014 0	+ .0020 - .0005	.500 THRU .750	+ .008 - .001	QA: L. FROSCHAUER		2/15/2012		TITLE : P-GEARBOX_REINFORCEMENT_LEFT			
		.014 THRU .125	+ .004 - .001	.751 THRU 1.000	+ .010 - .001	MFG: D. DOAN		2/15/2012					
WEIGHT: 0.345 LBS.		.126 THRU .250	+ .005 - .001	1.000 THRU 2.000	+ .012 - .001	APPROVED: T. HARDER		2/15/2012					
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DECIMAL DIMENSIONS: .XXX ± .010 .XX ± .03 .X ± .1		ON ANGULAR DIMENSIONS: MACHINED ± 0°30' LOCATING ± 0°30' CHAMFERS ± 5°		  				SIZE: DWG NO:		REV:	
								B P-GEARBOX_REINFORCEMENT_LEFT		1			
								SCALE: 1:1		SUBSYSTEM: SHOOTER		SHEET: 1 OF 1	

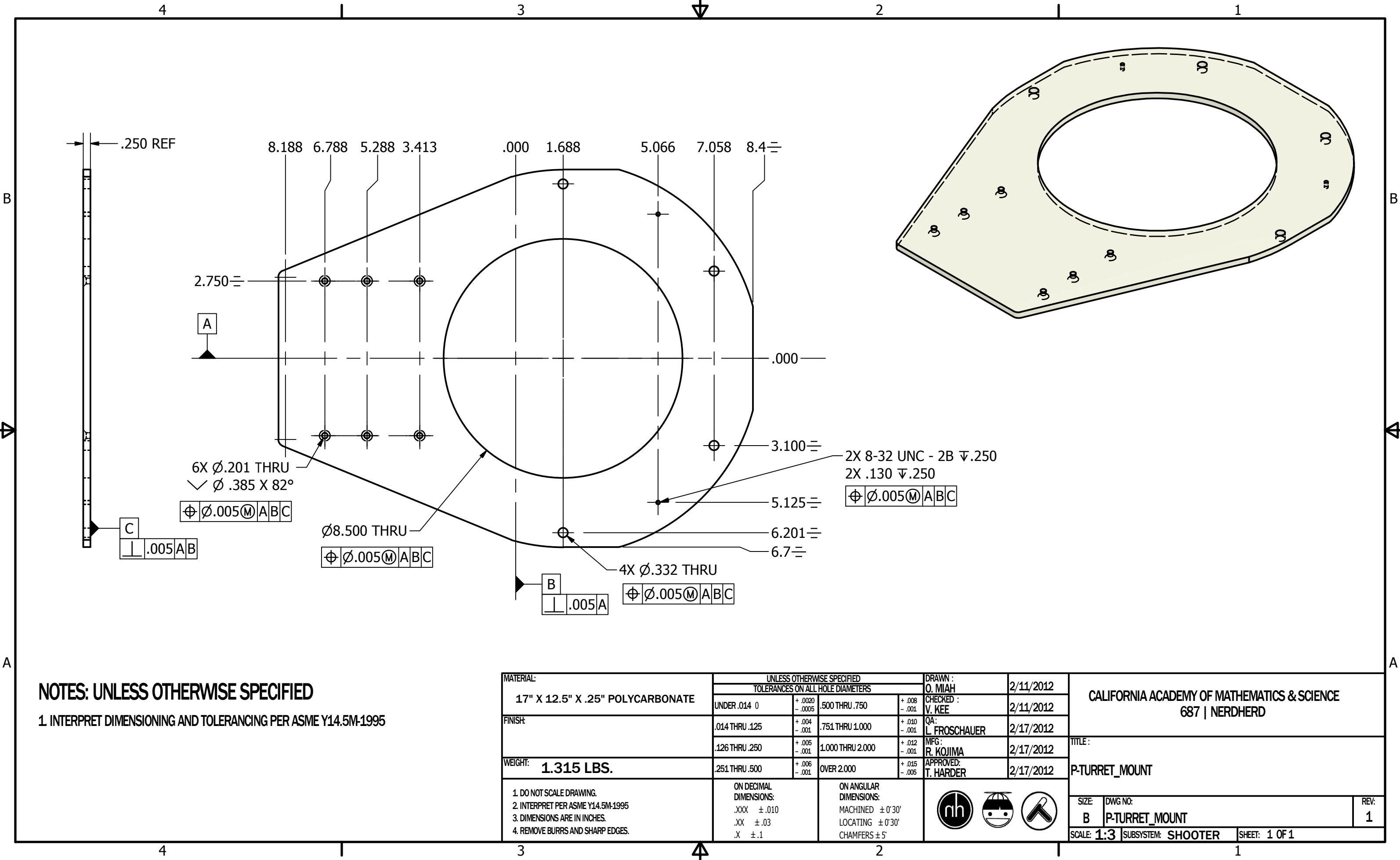


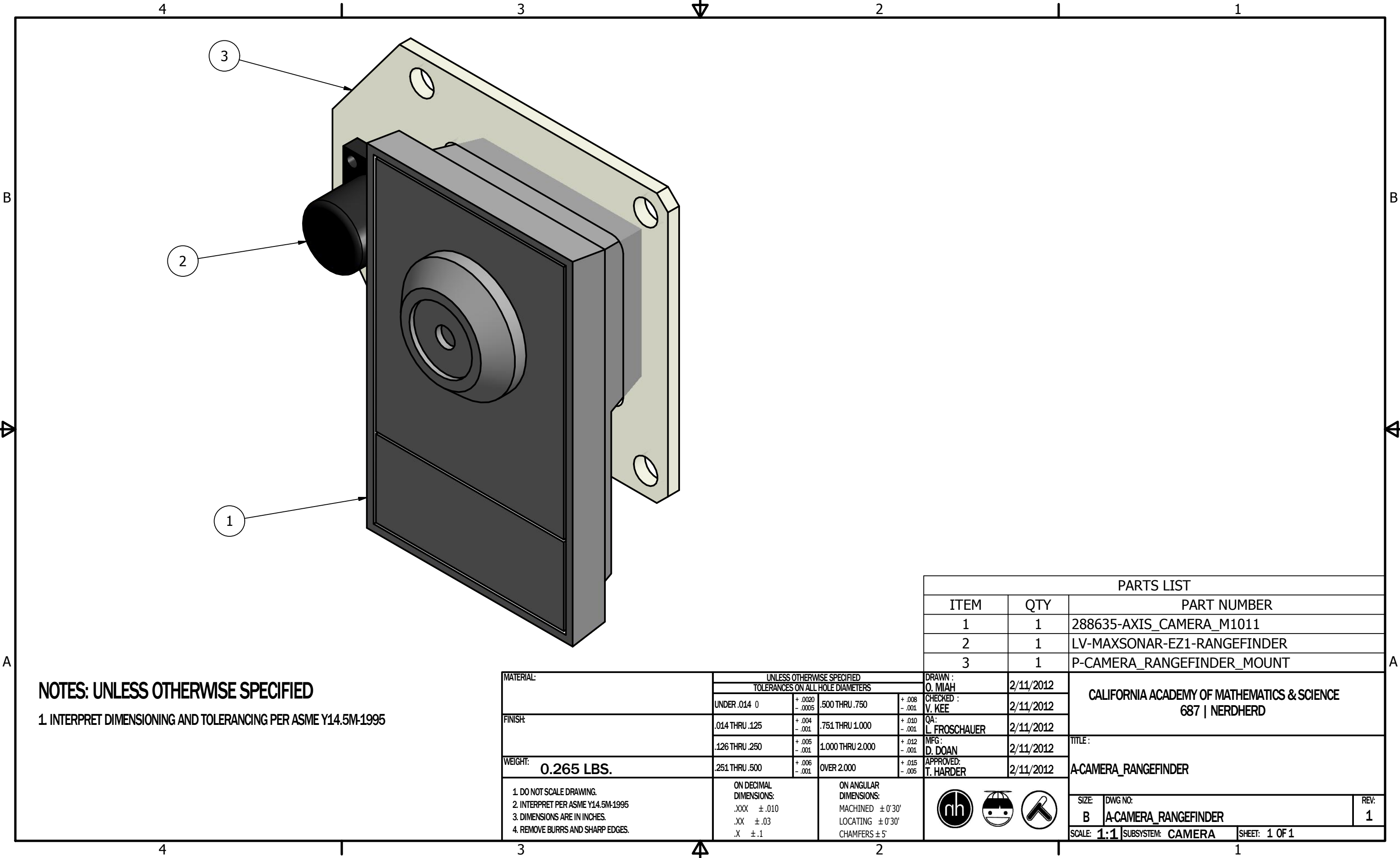
NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

MATERIAL: 5.5" X 4.75" X .375" ALUMINUM 6061-T651		UNLESS OTHERWISE SPECIFIED				DRAWN : O. MIAH		2/13/2012		CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD									
		TOLERANCES ON ALL HOLE DIAMETERS				CHECKED : V. KEE								2/13/2012					
FINISH:		UNDER .014 0		+ .0020 - .0005		.500 THRU .750		+ .008 - .001						QA: L. FROSCHAUER		2/17/2012			
		.014 THRU .125		+ .004 - .001		.751 THRU 1.000		+ .010 - .001						MFG: D. DOAN		2/17/2012			
WEIGHT: 0.514 LBS.		.126 THRU .250		+ .005 - .001		1.000 THRU 2.000		+ .012 - .001		APPROVED: T. HARDER		2/13/2012		TITLE : P-GEARBOX-REINFORCEMENT-RIGHT					
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DECIMAL DIMENSIONS: .XXX ±.010 .XX ±.03 .X ±.1				ON ANGULAR DIMENSIONS: MACHINED ±0°30' LOCATING ±0°30' CHAMFERS ±5°				  				SIZE: B		DWG NO: P-GEARBOX_REINFORCEMENT_RIGHT		REV: 1	
		SCALE: 3:4										SUBSYSTEM: SHOOTER				SHEET: 1 OF 1			







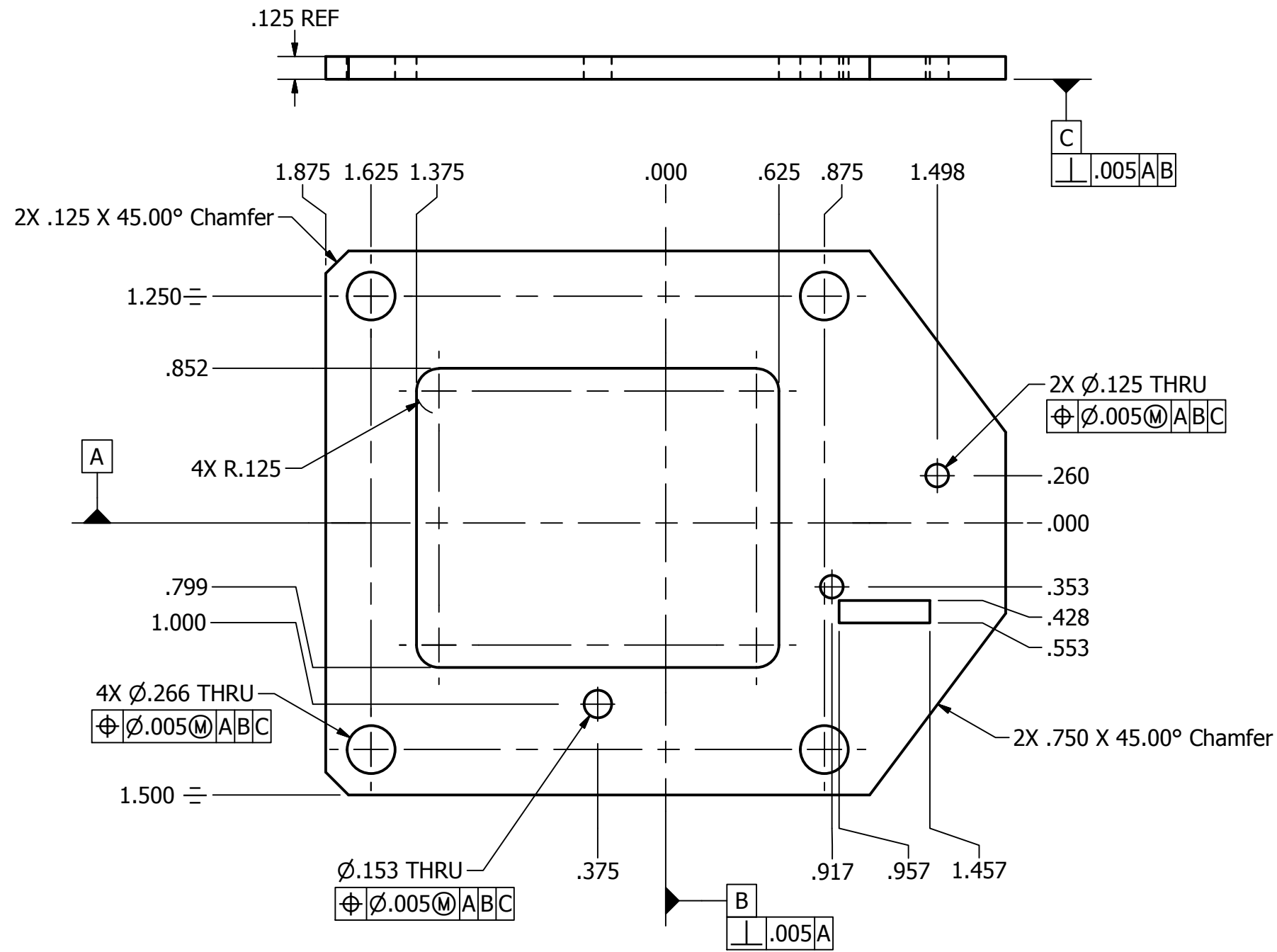
NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

MATERIAL:	UNLESS OTHERWISE SPECIFIED				DRAWN : O. MIAH	2/11/2012	CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD			
	TOLERANCES ON ALL HOLE DIAMETERS				CHECKED : V. KEE	2/11/2012				
FINISH:	UNDER .014 0	+ .0020 - .0005	.500 THRU .750	+ .008 - .001	QA: L. FROSCHAUER	2/11/2012	TITLE : A-CAMERA_RANGEFINDER			
	.014 THRU .125	+ .004 - .001	.751 THRU 1.000	+ .010 - .001	MFG: D. DOAN	2/11/2012				
WEIGHT: 0.265 LBS.	.126 THRU .250	+ .005 - .001	1.000 THRU 2.000	+ .012 - .001	APPROVED: T. HARDER	2/11/2012				
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.	ON DECIMAL DIMENSIONS: .XXX ±.010 .XX ±.03 .X ±.1		ON ANGULAR DIMENSIONS: MACHINED ±0°30' LOCATING ±0°30' CHAMFERS ±5°		  		SIZE: B	DWG NO: A-CAMERA_RANGEFINDER	REV: 1	
	SCALE: 1:1						SUBSYSTEM: CAMERA		SHEET: 1 OF 1	

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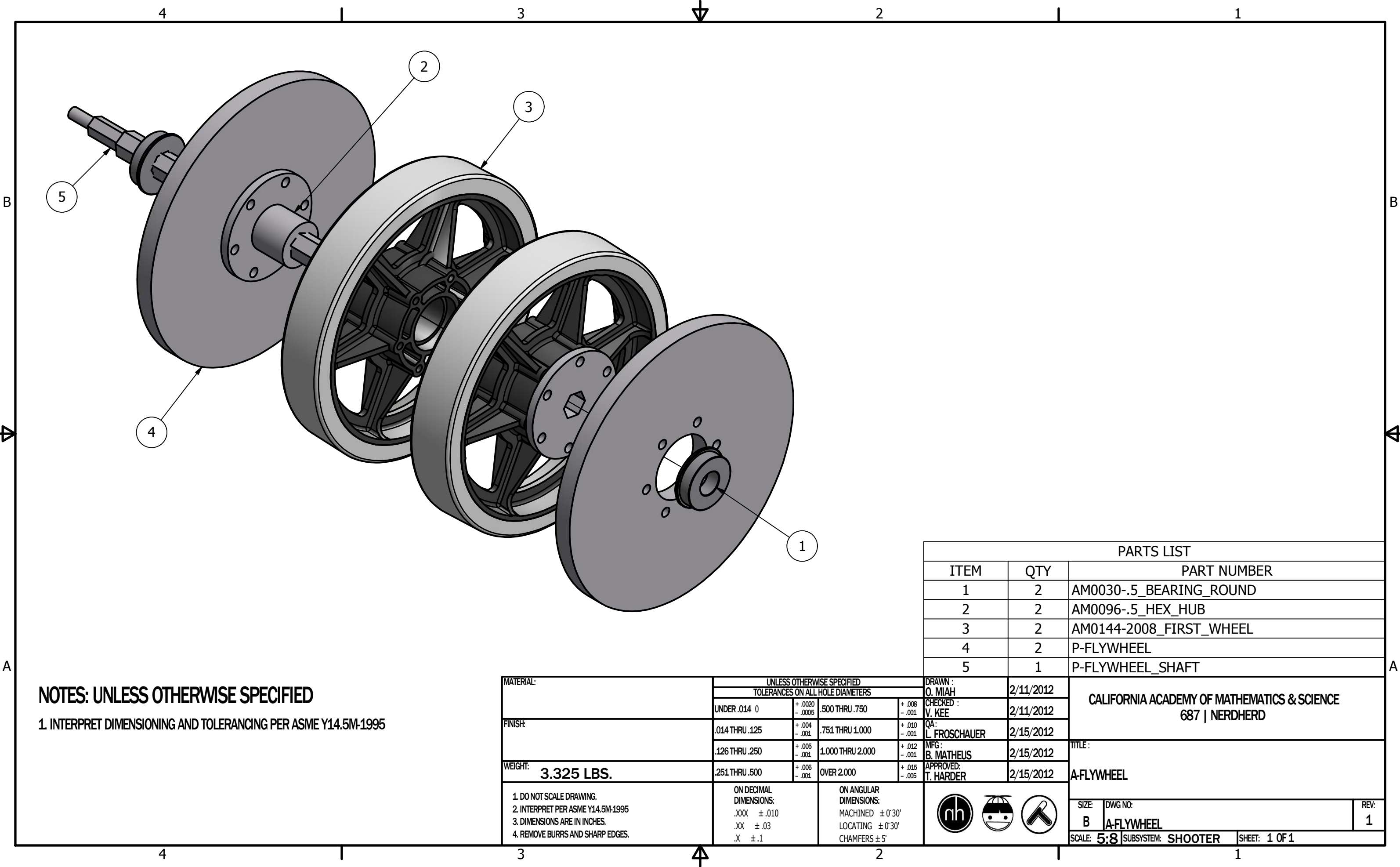
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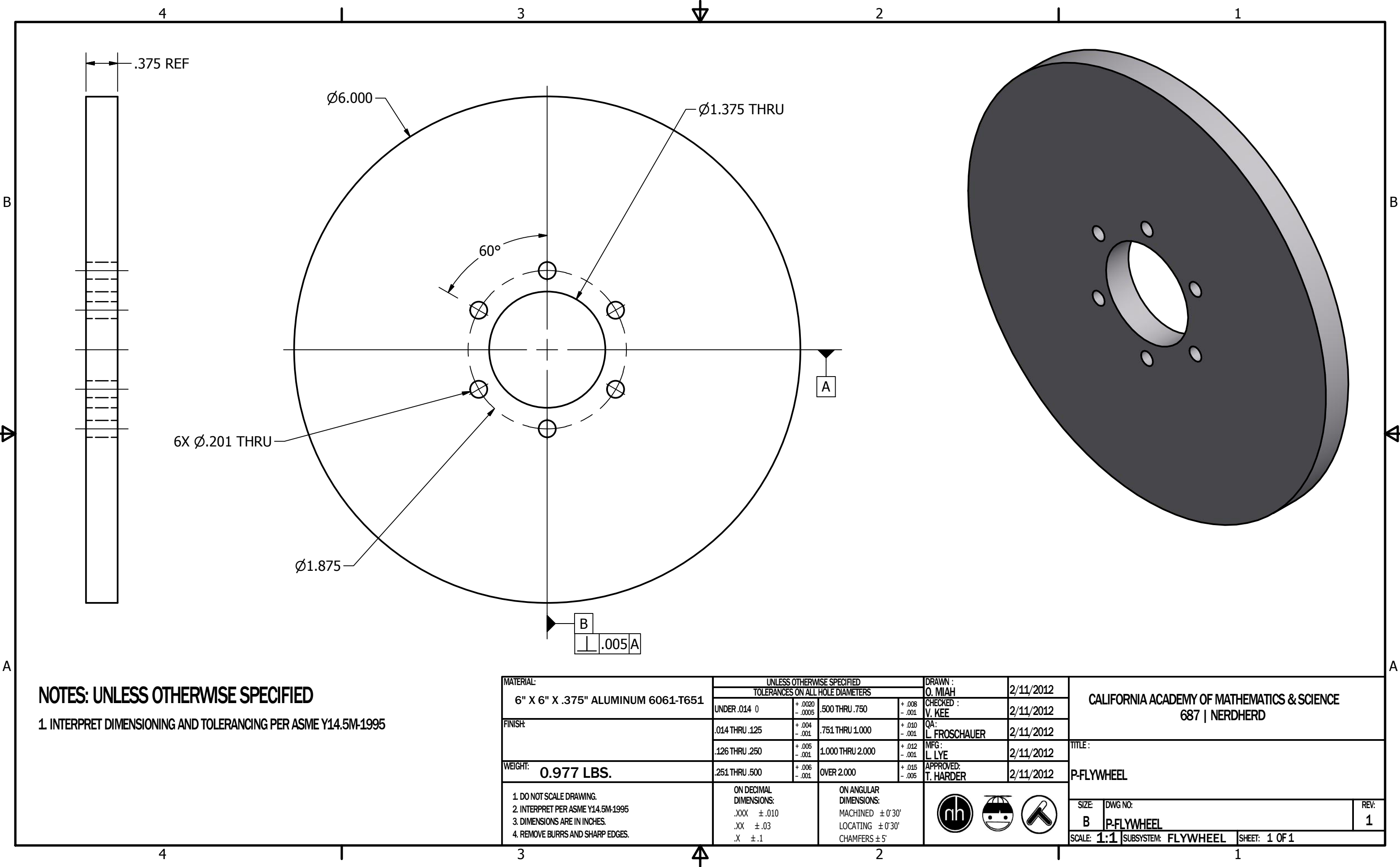


NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

MATERIAL: 3.75" X 3" X .125" POLYCARBONATE	UNLESS OTHERWISE SPECIFIED				DRAWN : O. MIAH	2/11/2012	CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD		
	TOLERANCES ON ALL HOLE DIAMETERS				CHECKED : V. KEE	2/11/2012			
FINISH:	UNDER .014 0	+ .0020 - .0005	.500 THRU .750	+ .008 - .001	QA: L. FROSCHAUER	2/13/2012	TITLE : P-CAMERA_RANGEFINDER_MOUNT		
	.014 THRU .125	+ .004 - .001	.751 THRU 1.000	+ .010 - .001	MFG: N. DADEH	2/13/2012			
WEIGHT: 0.037 LBS.	.126 THRU .250	+ .005 - .001	1.000 THRU 2.000	+ .012 - .001	APPROVED: T. HARDER	2/13/2012			
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.	ON DECIMAL DIMENSIONS: .XXX ±.010 .XX ±.03 .X ±.1		ON ANGULAR DIMENSIONS: MACHINED ±0°30' LOCATING ±0°30' CHAMFERS ±5°		  		SIZE: DWG NO: B P-CAMERA_RANGEFINDER_MOUNT		REV: 1
	SCALE: 4:3		SUBSYSTEM: CAMERA		SHEET: 1 OF 1				





4

3

2

1

B

B

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A

A

NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

MATERIAL: 7.25" ALUMINUM 6061-T651 1/2" HEX		UNLESS OTHERWISE SPECIFIED				DRAWN : L. LYE		2/11/2012		CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD			
		TOLERANCES ON ALL HOLE DIAMETERS				CHECKED : V. KEE		2/11/2012					
FINISH:		UNDER .014 0	+ .0020 - .0005	.500 THRU .750	+ .008 - .001	QA: L. FROSCHAUER		2/17/2012					
		.014 THRU .125	+ .004 - .001	.751 THRU 1.000	+ .010 - .001	MFG: B. MATHEUS		2/17/2012					
WEIGHT: 0.135 LBS.		.251 THRU .500	+ .006 - .001	OVER 2.000	+ .015 - .005	APPROVED: T. HARDER		2/17/2012		TITLE : P-FLYWHEEL_SHAFT			
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DECIMAL DIMENSIONS: .XXX ±.010 .XX ±.03 .X ±.1		ON ANGULAR DIMENSIONS: MACHINED ± 0°30' LOCATING ± 0°30' CHAMFERS ± 5°		  		SIZE: B		DWG NO: P-FLYWHEEL_SHAFT		REV: 1	
		SCALE: 1:1											
		SUBSYSTEM: FLYWHEEL		SHEET: 1 OF 1									

4

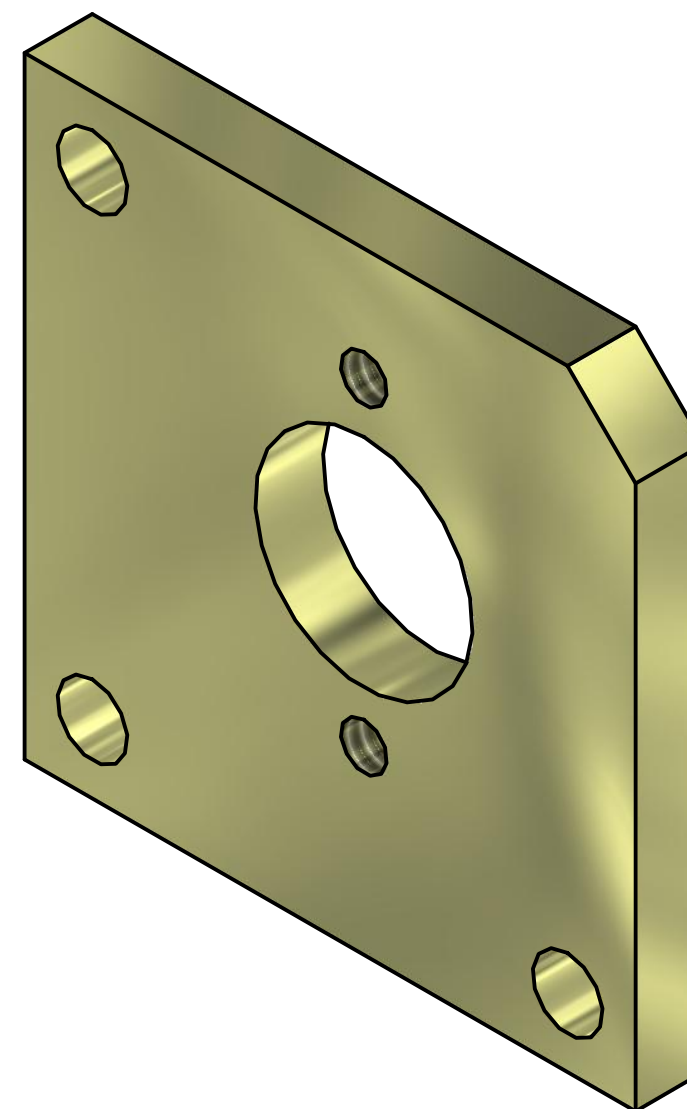
3

2

1



MATERIAL:	UNLESS OTHERWISE SPECIFIED				DRAWN :	CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD	
	TOLERANCES ON ALL HOLE DIAMETERS				Q. MIAH		2/11/2012
FINISH:	UNDER .014 0	+ .0020 - .0005	.500 THRU .750	+ .008 - .001	CHECKED :		2/11/2012
					V. KEE		
					QA:		
	.014 THRU .125	+ .004 - .001	.751 THRU 1.000	+ .010 - .001	L. FROSCHAUER	2/17/2012	
					MFG:		
WEIGHT:	.126 THRU .250	+ .005 - .001	1.000 THRU 2.000	+ .012 - .001	L. LYE	2/17/2012	
					APPROVED:		
1.715 LBS.	.251 THRU .500	+ .006 - .001	OVER 2.000	+ .015 - .005	T. HARDER	2/17/2012	
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.	ON DECIMAL DIMENSIONS:		ON ANGULAR DIMENSIONS:		  		
	.XXX ±.010		MACHINED ± 0°30'				
	.XX ±.03		LOCATING ± 0°30'				
	.X ±.1		CHAMFERS ± 5°				
TITLE :							
A-SHOOTER_GEARBOX							
SIZE:		DWG NO:				REV:	
B		A-SHOOTER_GEARBOX				1	
SCALE: 1:1 SUBSYSTEM: SHOOTER GB SHEET: 1 OF 1							

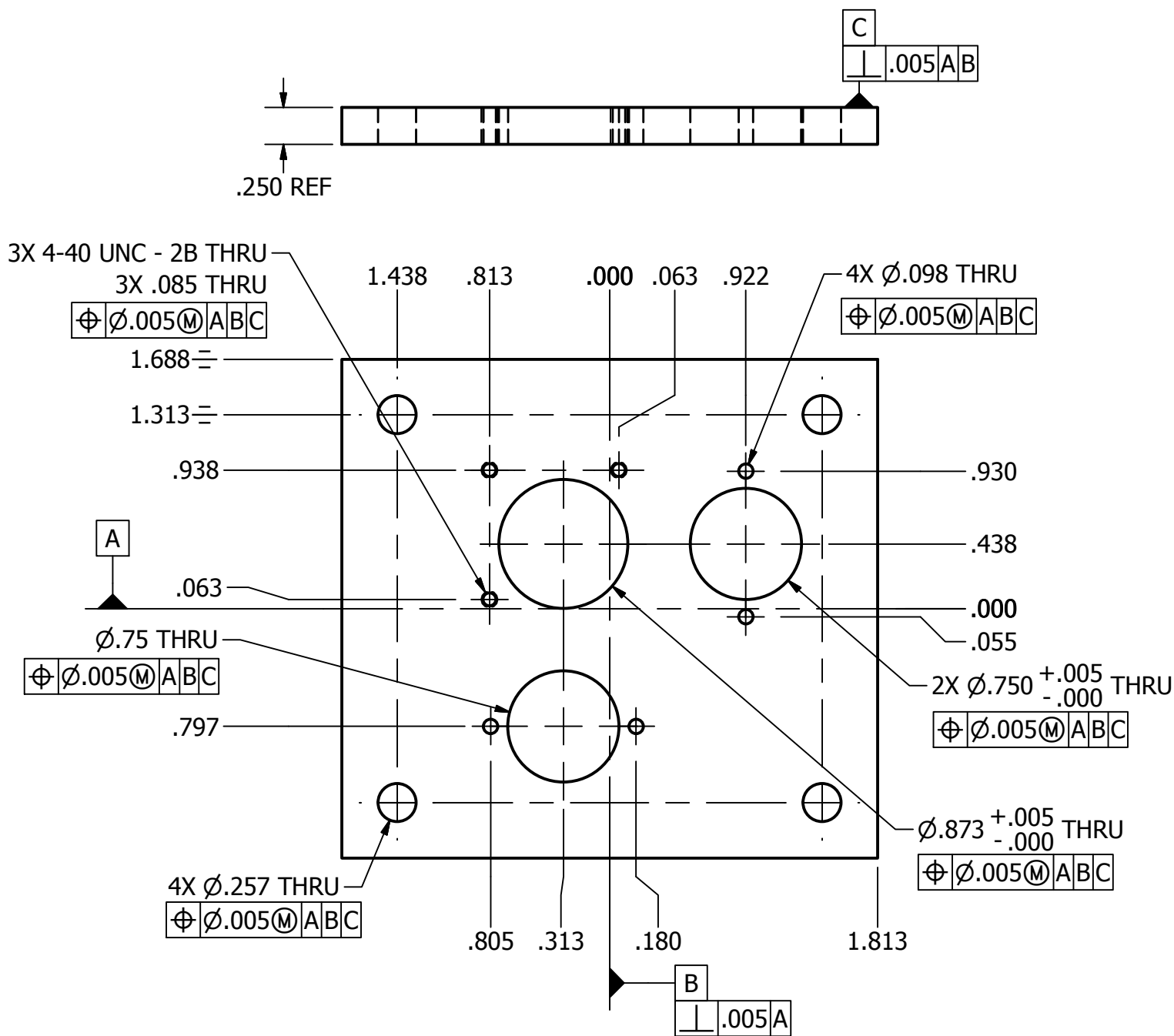


1 INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

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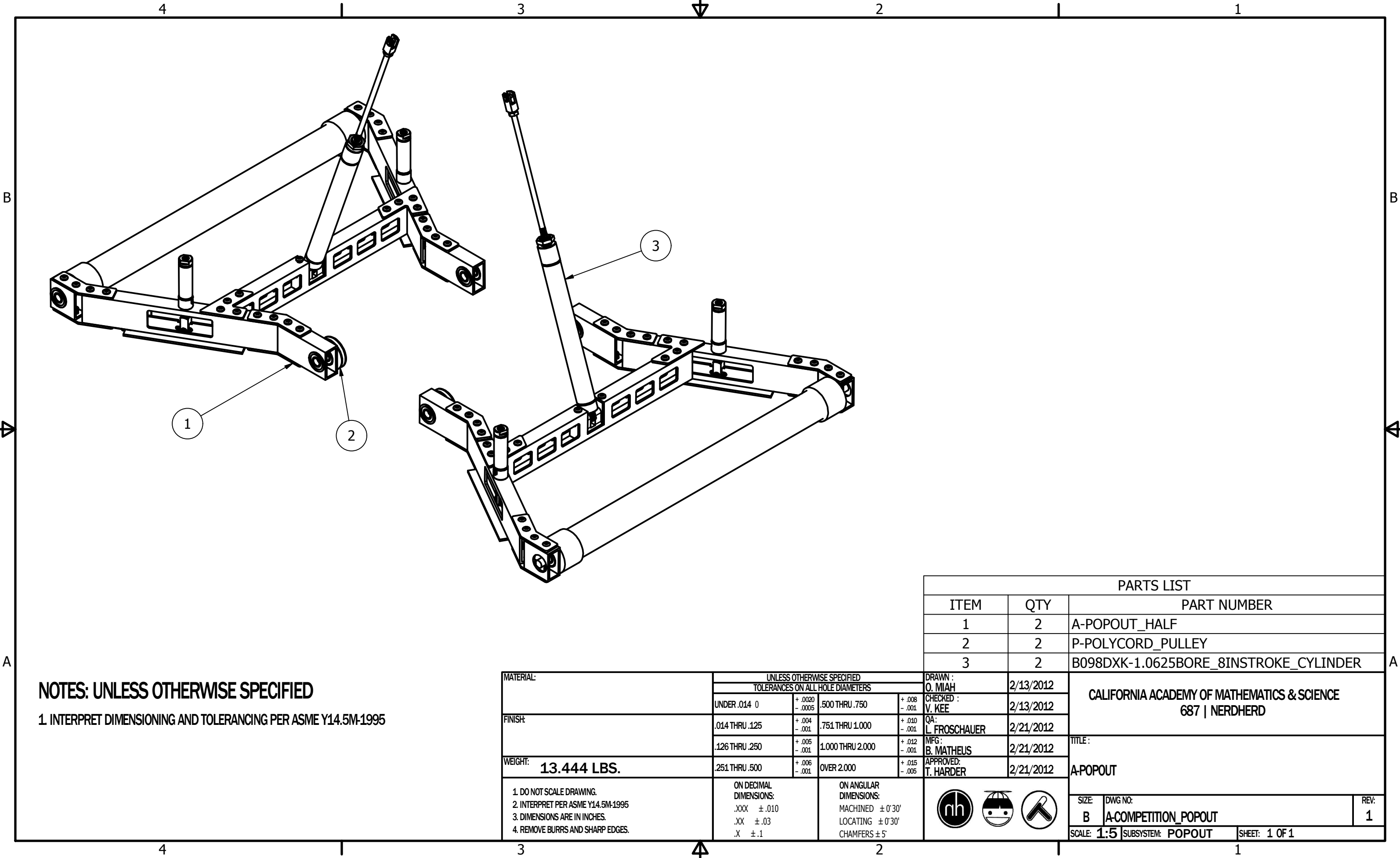
PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT



NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

MATERIAL:		UNLESS OTHERWISE SPECIFIED				DRAWN :		CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD									
3.75" X 3.75" X .25" ALUMINUM 6061-T651		TOLERANCES ON ALL HOLE DIAMETERS				L. LYE				2/11/2012							
		UNDER .014 0		+ .0020 - .0005		.500 THRU .750				+ .008 - .001		CHECKED : V. KEE		2/11/2012			
		.014 THRU .125		+ .004 - .001		.751 THRU 1.000				+ .010 - .001		QA: L. FROSCHAUER		2/11/2012			
FINISH:		.126 THRU .250		+ .005 - .001		1.000 THRU 2.000		+ .012 - .001		MFG: L. LYE		2/11/2012		TITLE :			
WEIGHT: 0.257 LBS.		.251 THRU .500		+ .006 - .001		OVER 2.000		+ .015 - .005		APPROVED: T. HARDER		2/11/2012				P-MOTOR_MOUNT_PLATE	
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DECIMAL DIMENSIONS: .XXX ±.010 .XX ±.03 .X ±.1		ON ANGULAR DIMENSIONS: MACHINED ±0°30' LOCATING ±0°30' CHAMFERS ±5°		  		SIZE: B		DWG NO: P-MOTOR_MOUNT_PLATE		REV: 1					
SCALE: 1:1														SUBSYSTEM: SHOOTER GB		SHEET: 1 OF 1	



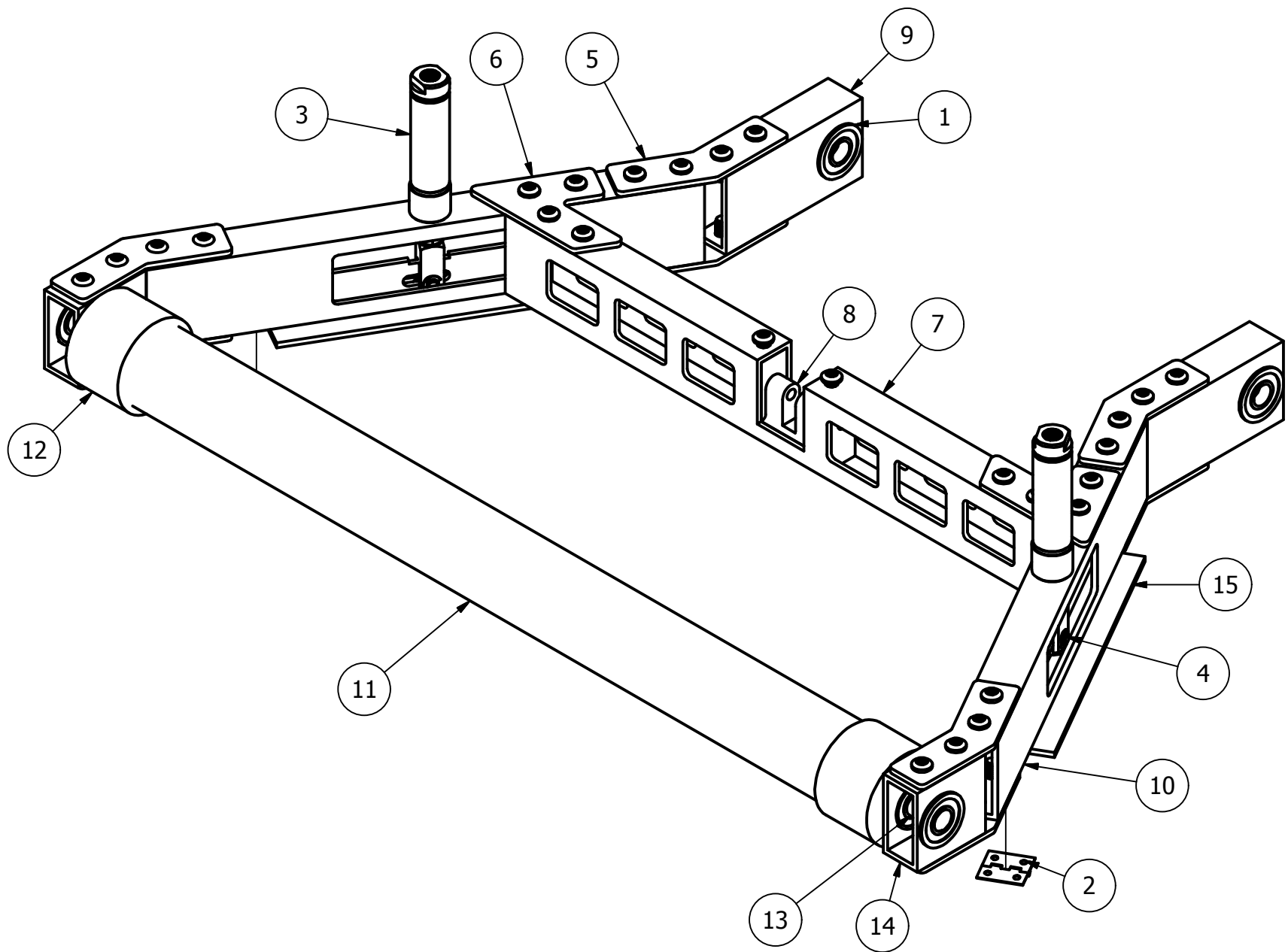
NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

MATERIAL:	UNLESS OTHERWISE SPECIFIED				DRAWN :		CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD
	TOLERANCES ON ALL HOLE DIAMETERS				O. MIAH	2/13/2012	
FINISH:	UNDER .014 0	+ .0020 - .0005	.500 THRU .750	+ .008 - .001	CHECKED :	2/13/2012	
	.014 THRU .125	+ .004 - .001	.751 THRU 1.000	+ .010 - .001	V. KEE	2/21/2012	
WEIGHT:	.126 THRU .250	+ .005 - .001	1.000 THRU 2.000	+ .012 - .001	QA:	2/21/2012	TITLE :
	.251 THRU .500	+ .006 - .001	OVER 2.000	+ .015 - .005	L. FROSCHAUER	2/21/2012	
13.444 LBS.					MFG:	2/21/2012	A-POPOUT
					B. MATHEUS	2/21/2012	
					APPROVED:	2/21/2012	SIZE: DWG NO: REV:
					T. HARDER	2/21/2012	
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DECIMAL DIMENSIONS: .XXX ±.010 .XX ±.03 .X ±.1	ON ANGULAR DIMENSIONS: MACHINED ±0°30' LOCATING ±0°30' CHAMFERS ±5°	  		A-COMPETITION_POPOUT	
				SCALE: 1:5		SUBSYSTEM: POPOUT	SHEET: 1 OF 1

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PARTS LIST		
ITEM	QTY	PART NUMBER
1	8	AM0030-.5_BEARING_ROUND
2	2	MC1603A23-HINGE
3	2	MC6498K151-.75BORE_1INSTROKE_CYLINDER
4	2	MC6498K420-.75BORE_CLEVIS
5	8	P-CONNECTOR_PLATE
6	2	P-CONNECT_CROSSBAR
7	1	P-CROSSBAR
8	1	P-CYLINDER_FOOT_BRACKET
9	2	P-DRIVEN_SIDE_CONNECT
10	2	P-PO-SIDE
11	1	P-POPOUT_ROLLER
12	2	P-POPOUT_ROLLER_CAP
13	1	P-POPOUT_ROLLER_SHAFT
14	2	P-SIDE-CONNECT
15	2	P-SKID_PLATE

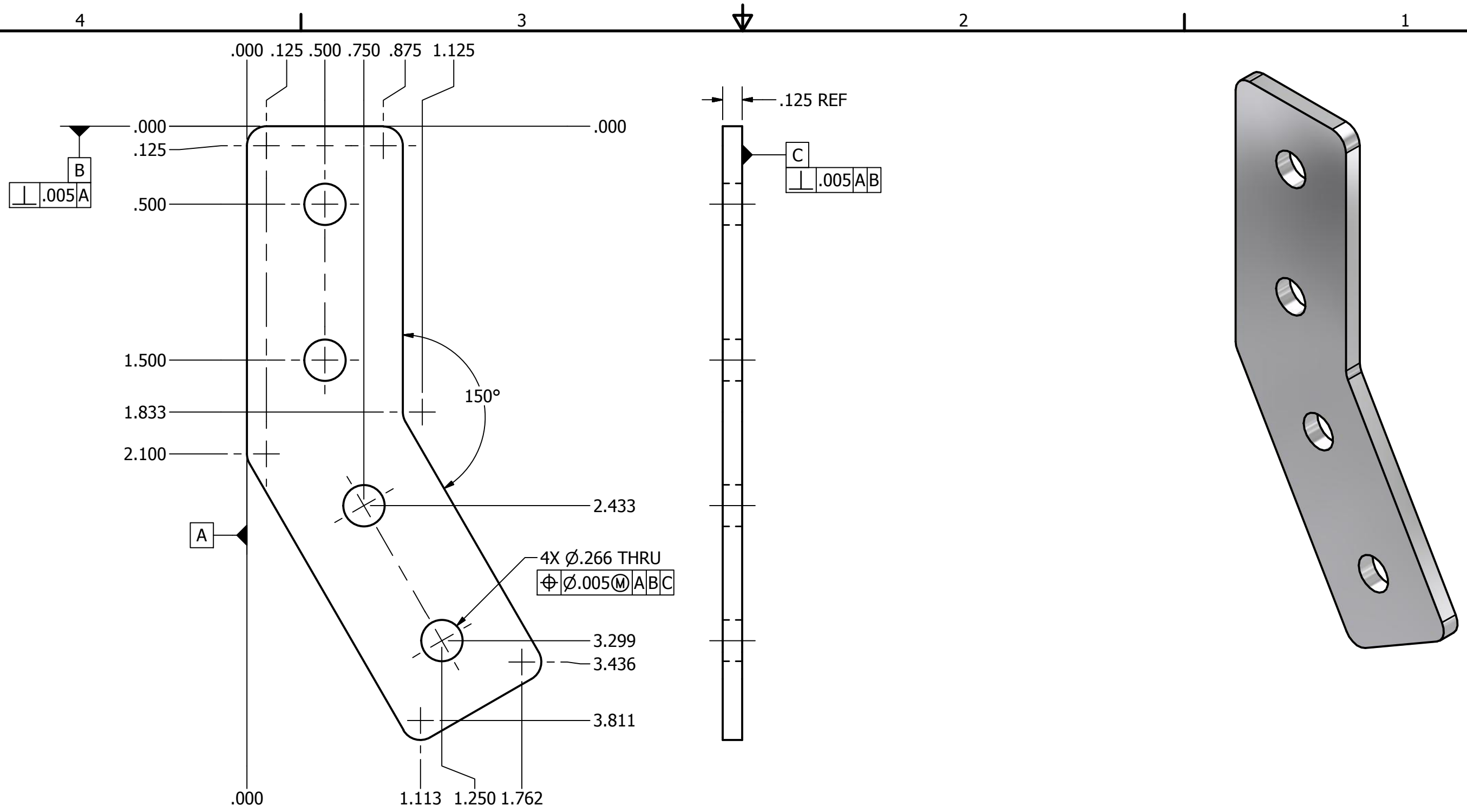
NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

MATERIAL:	UNLESS OTHERWISE SPECIFIED				DRAWN : O. MIAH	2/13/2012	CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD		
	TOLERANCES ON ALL HOLE DIAMETERS				CHECKED : V. KEE	2/13/2012			
FINISH:	UNDER .014 0	+ .0020 - .0005	.500 THRU .750	+ .008 - .001	QA: L. FROSCHAUER	2/21/2012	TITLE : A-POPOUT_HALF		
	.014 THRU .125	+ .004 - .001	.751 THRU 1.000	+ .010 - .001	MFG: B. MATHEUS	2/21/2012			
WEIGHT: 6.549 LBS.	.126 THRU .250	+ .005 - .001	1.000 THRU 2.000	+ .012 - .001	APPROVED: T. HARDER	2/21/2012			
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.	ON DECIMAL DIMENSIONS: .XXX ±.010 .XX ±.03 .X ±.1		ON ANGULAR DIMENSIONS: MACHINED ±0°30' LOCATING ±0°30' CHAMFERS ±5°		  		SIZE: DWG NO: REV:		
							B A-POPOUT_HALF 1		
						SCALE: 1:3 SUBSYSTEM: POPOUT SHEET: 1 OF 1			

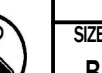
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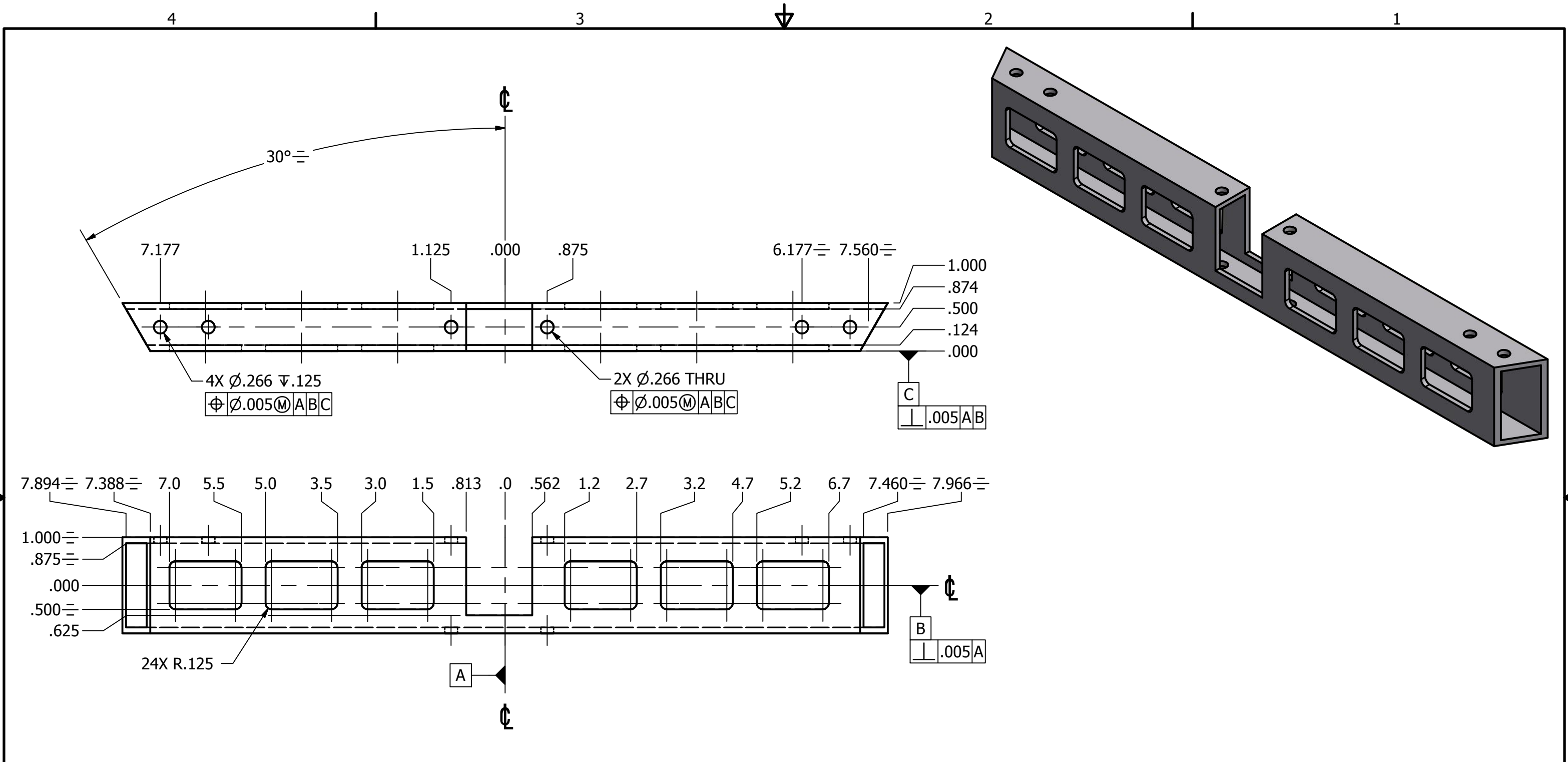
NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

MATERIAL: 4" X 2" X .125" ALUMINUM 6061-T651		UNLESS OTHERWISE SPECIFIED				DRAWN : D. DOAN		2/12/2012		CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD			
		TOLERANCES ON ALL HOLE DIAMETERS				CHECKED : V. KEE		2/12/2012					
FINISH:		UNDER .014 0	+ .0020 - .0005	.500 THRU .750	+ .008 - .001	QA: L. FROSCHAUER		2/15/2012		TITLE : P-CONNECTOR_PLATE			
		.014 THRU .125	+ .004 - .001	.751 THRU 1.000	+ .010 - .001	MFG : B. MATHEUS		2/15/2012					
WEIGHT: 0.046 LBS.		.126 THRU .250	+ .005 - .001	1.000 THRU 2.000	+ .012 - .001	APPROVED: T. HARDER		2/15/2012					
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DECIMAL DIMENSIONS: .XXX ±.010 .XX ±.03 .X ±.1		ON ANGULAR DIMENSIONS: MACHINED ±0°30' LOCATING ±0°30' CHAMFERS ±5°		  		SIZE: B		DWG NO: P-CONNECTOR_PLATE		REV: 1	
								SCALE: 3:2		SUBSYSTEM: POPOUT		SHEET: 1 OF 1	

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NOTES: UNLESS OTHERWISE SPECIFIED

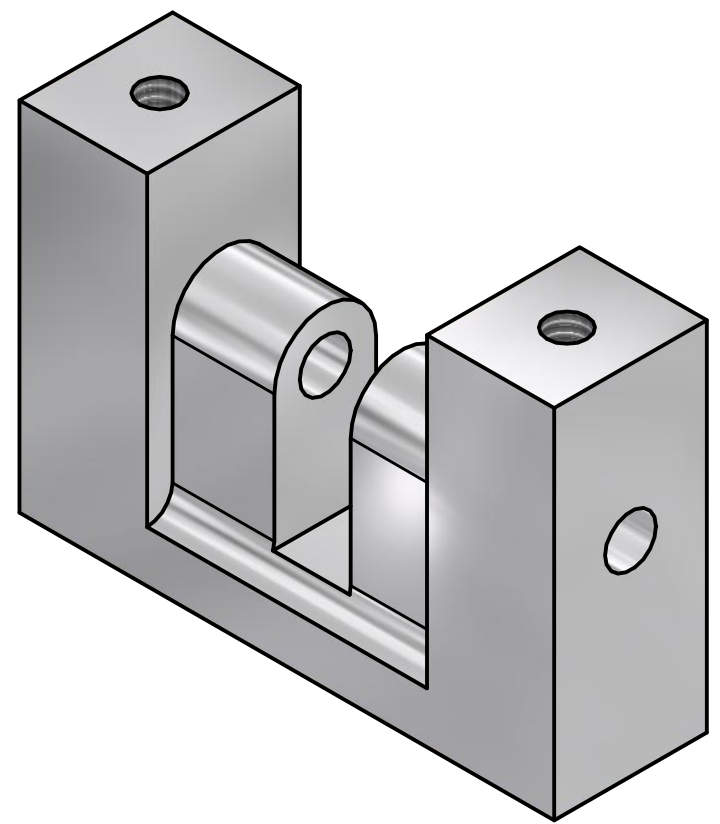
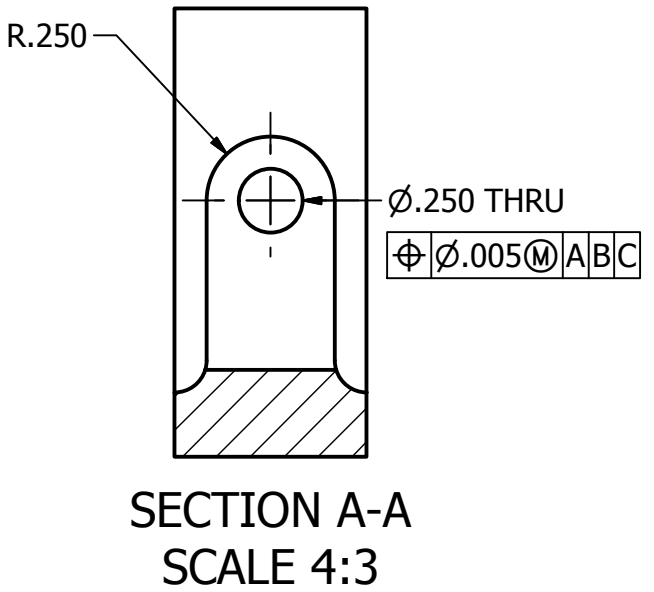
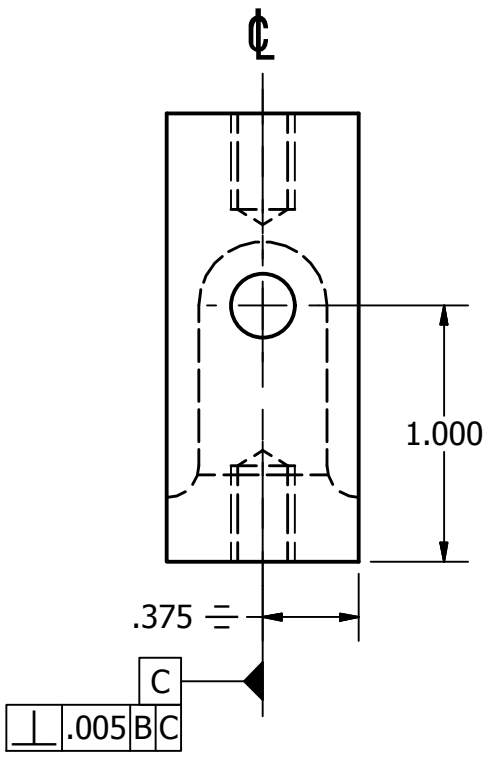
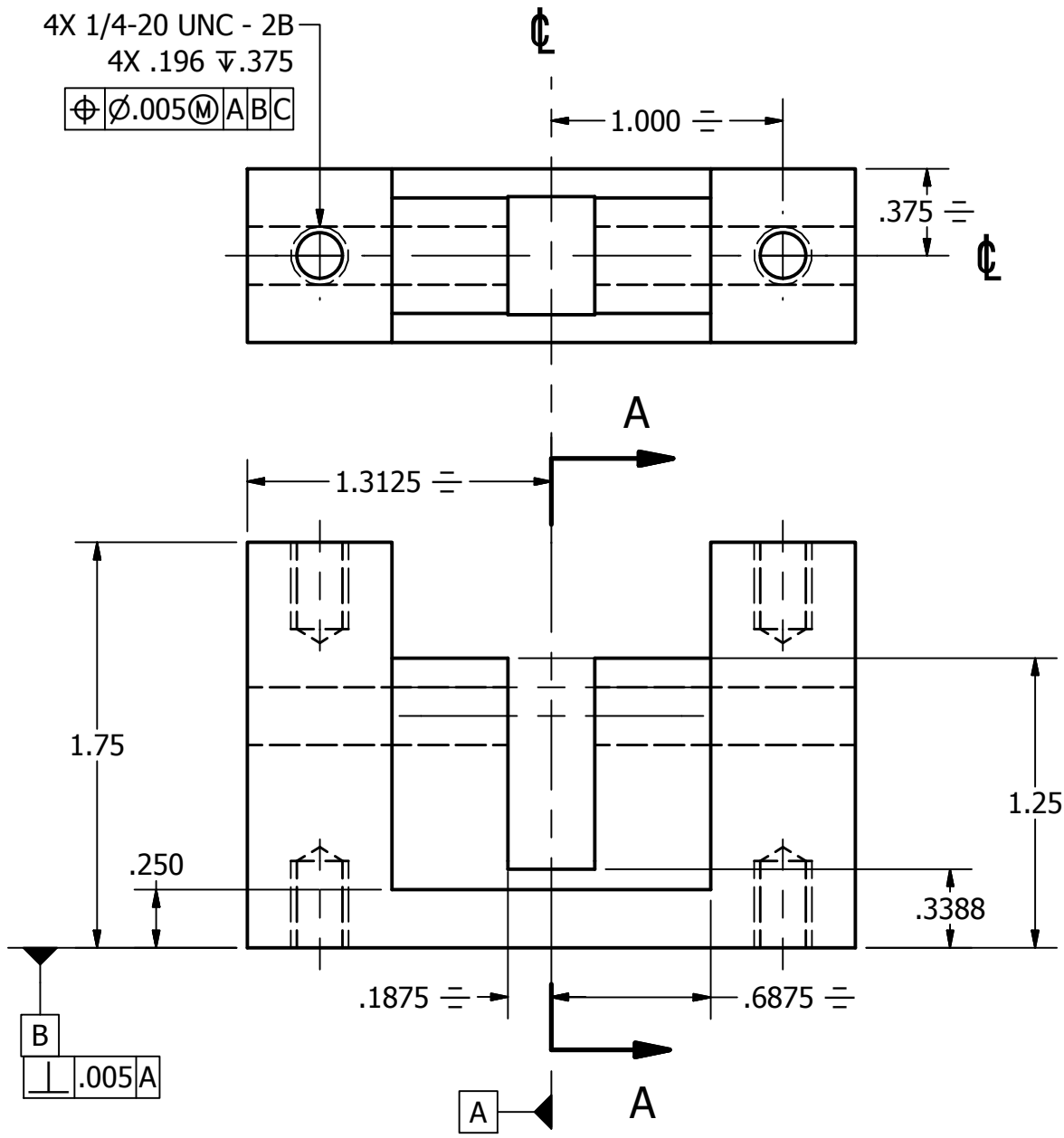
- 1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995
- 2. ALL FILLETS AND ROUNDS R.125
- 3. ALL POCKETS ARE THRU

MATERIAL: 16" 2" X 1" .125 THK ALUMINUM 6061-T651 RECT TUBE	UNLESS OTHERWISE SPECIFIED TOLERANCES ON ALL HOLE DIAMETERS				DRAWN : O. MIAH	2/11/2012	CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD		
	UNDER .014 0	+ .0020 - .0005	.500 THRU .750	+ .008 - .001	CHECKED : V. KEE	2/11/2012			
FINISH:	.014 THRU .125	+ .004 - .001	.751 THRU 1.000	+ .010 - .001	QA: L. FROSCHAUER	2/15/2012	TITLE: P-CROSSBAR		
	.126 THRU .250	+ .005 - .001	1.000 THRU 2.000	+ .012 - .001	MFG: D. DOAN	2/15/2012			
WEIGHT: 0.742 LBS.	.251 THRU .500	+ .006 - .001	OVER 2.000	+ .015 - .005	APPROVED: T. HARDER	2/15/2012	SIZE: B DWG NO: P-CROSSBAR SCALE: 1:2 SUBSYSTEM: POPOUT SHEET: 1 OF 1		
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.	ON DECIMAL DIMENSIONS: .XXX ± .010 .XX ± .03 .X ± .1		ON ANGULAR DIMENSIONS: MACHINED ± 0°30' LOCATING ± 0°30' CHAMFERS ± 5°						REV: 1

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PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

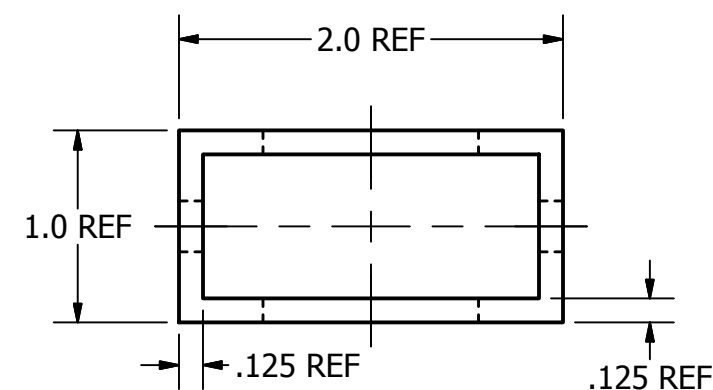
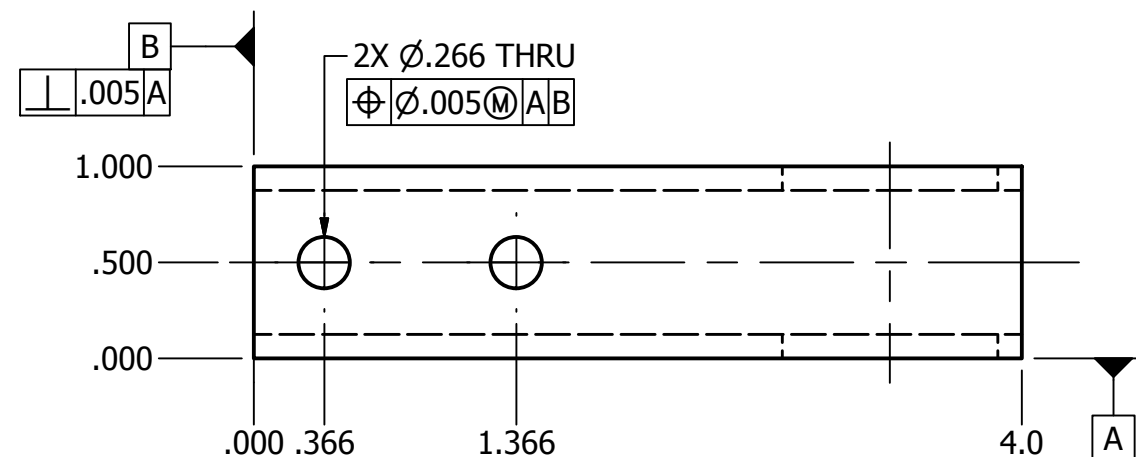
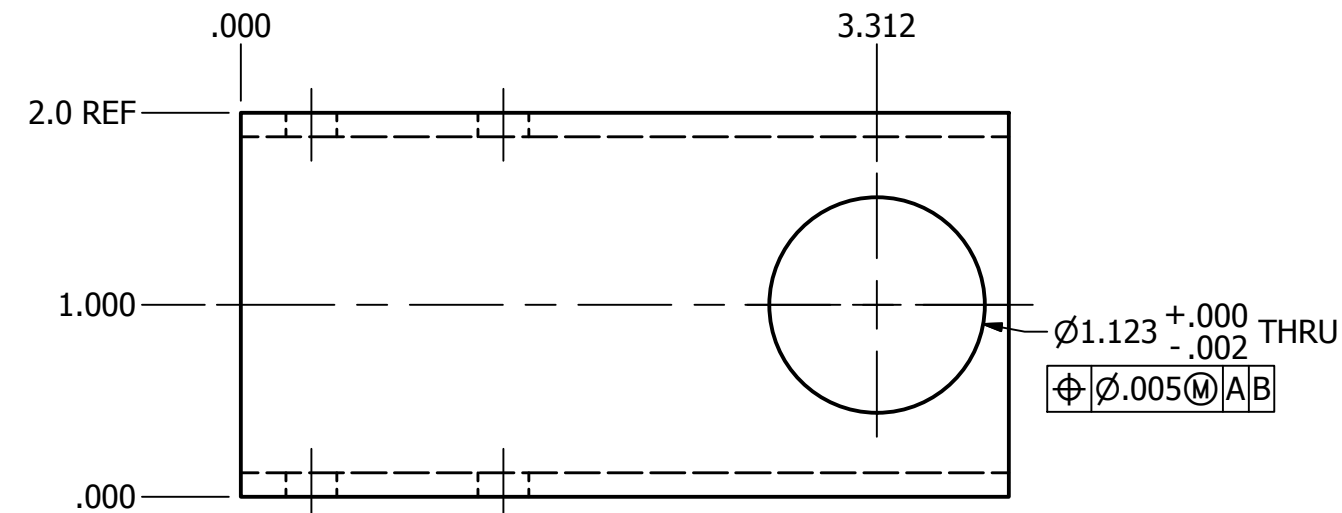
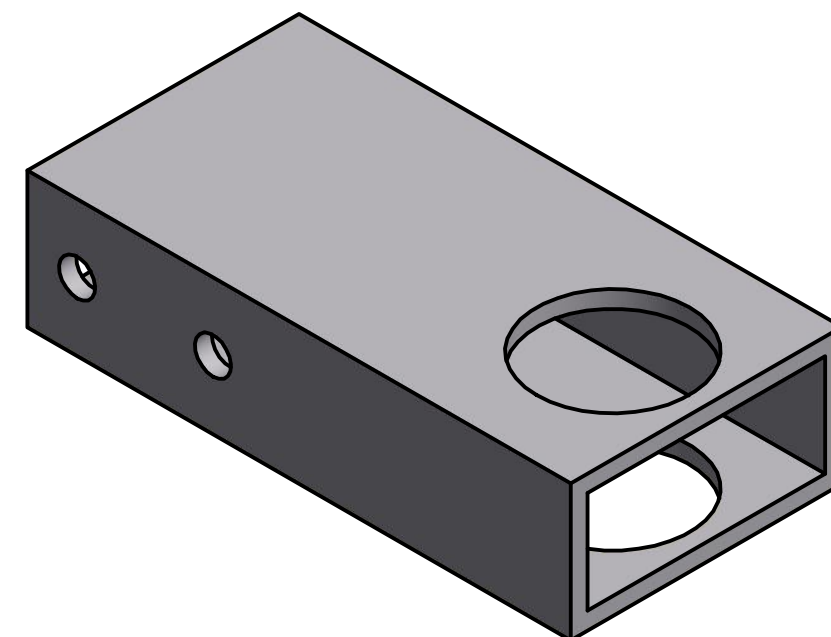
4X 1/4-20 UNC - 2B
4X .196 ∇ .375
 Φ Ø.005MABC



NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995
2. ALL FILLETS AND ROUNDS ARE R.125

MATERIAL: 2.75" X 1.75" X .75" ALUMINUM 6061-T651	UNLESS OTHERWISE SPECIFIED				DRAWN : D. DOAN	2/11/2012	CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD		
	TOLERANCES ON ALL HOLE DIAMETERS				CHECKED : V. KEE	2/11/2012			
FINISH:	UNDER .014 0	+ .0020 - .0005	.500 THRU .750	+ .008 - .001	QA: L. FROSCHAUER	2/15/2012	TITLE : P-CYLINDER_FOOT_BRACKET		
	.014 THRU .125	+ .004 - .001	.751 THRU 1.000	+ .010 - .001	MFG: B. MATHEUS	2/15/2012			
WEIGHT: 0.219 LBS.	.126 THRU .250	+ .005 - .001	1.000 THRU 2.000	+ .012 - .001	APPROVED: T. HARDER	2/15/2012	SIZE: DWG NO: REV: B P-CYLINDER_FOOT_BRACKET 1		
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.	ON DECIMAL DIMENSIONS: .XXX ±.010 .XX ±.03 .X ±.1		ON ANGULAR DIMENSIONS: MACHINED ± 0°30' LOCATING ± 0°30' CHAMFERS ± 5°		  				
	SCALE: 4:3 SUBSYSTEM: POPOUT SHEET: 1 OF 1								



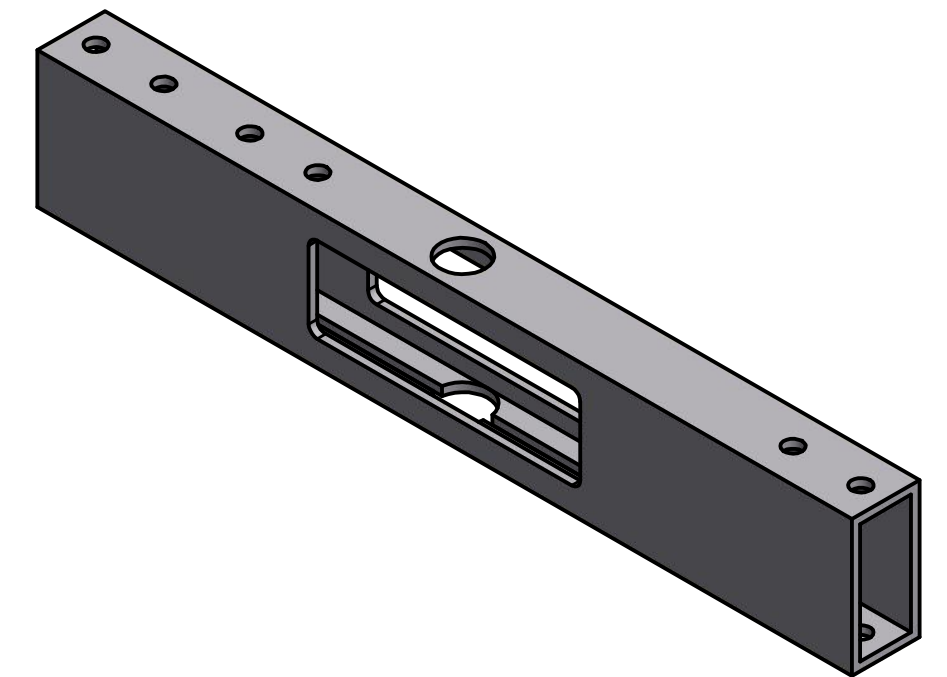
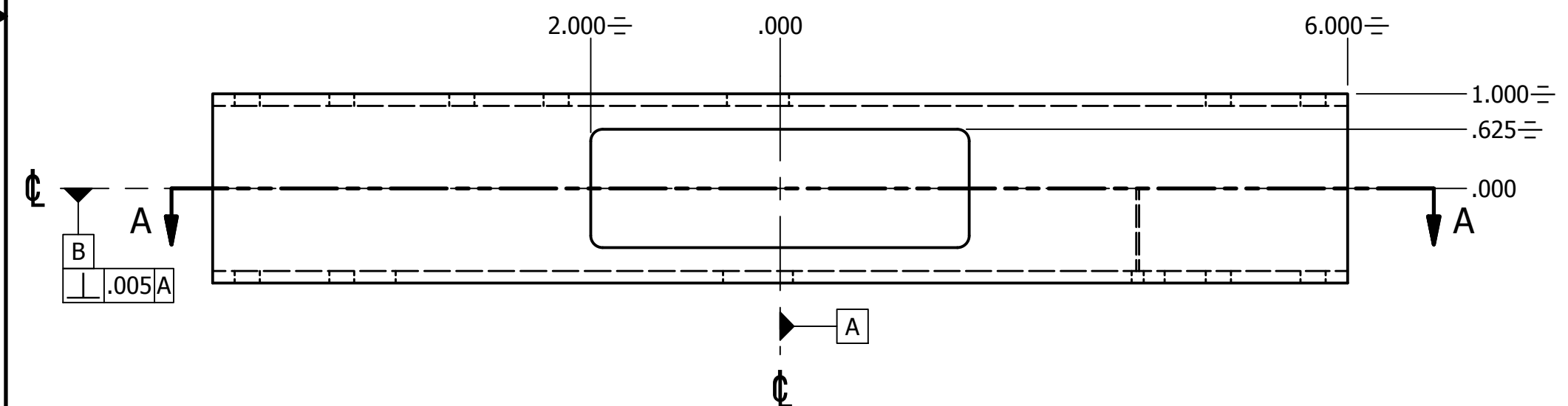
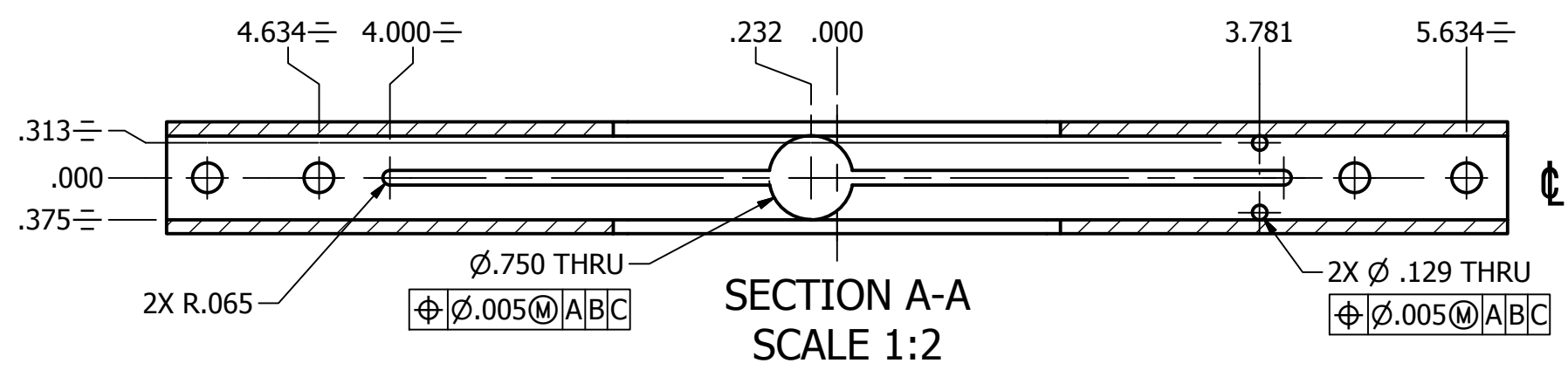
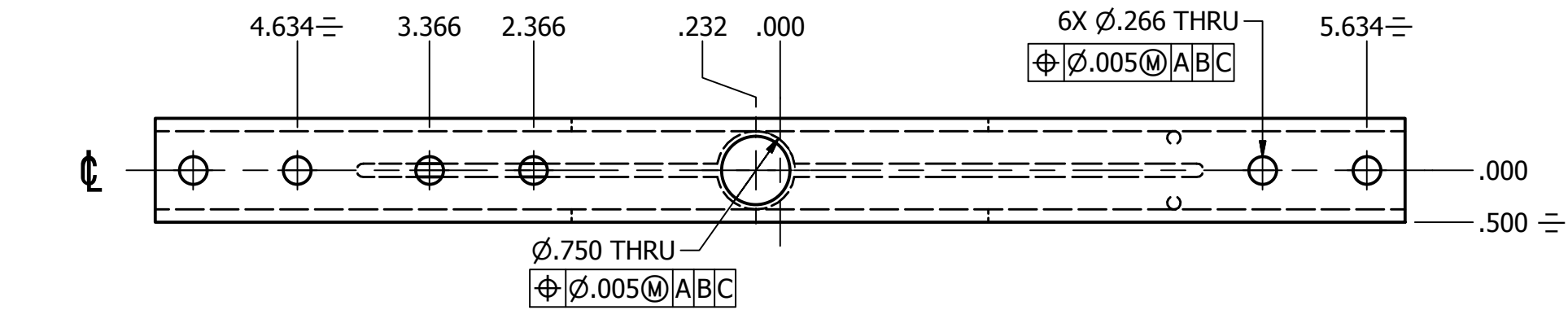
NOTES: UNLESS OTHERWISE SPECIFIED

1 INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

MATERIAL: 4" 2" X 1" .125 THK ALUMINUM 6061-T651 RECT TUBE	UNLESS OTHERWISE SPECIFIED				DRAWN : O. MIAH	2/13/2012	CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD		
	TOLERANCES ON ALL HOLE DIAMETERS				CHECKED : V. KEE	2/13/2012			
FINISH:	UNDER .014 0	+ .0020 - .0005	.500 THRU .750	+ .008 - .001	QA: L. FROSCHAUER	2/13/2012	TITLE : P-DRIVEN_SIDE_CONNECT		
	.014 THRU .125	+ .004 - .001	.751 THRU 1.000	+ .010 - .001	MFG: B. MATHEUS	2/13/2012			
WEIGHT: 0.242 LBS.	.126 THRU .250	+ .005 - .001	1.000 THRU 2.000	+ .012 - .001	APPROVED: T. HARDER	2/13/2012	SIZE: DWG NO: REV: B P-DRIVEN_SIDE_CONNECT 1		
	.251 THRU .500	+ .006 - .001	OVER 2.000	+ .015 - .005					
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.	ON DECIMAL DIMENSIONS: .XXX ±.010 .XX ±.03 .X ±.1		ON ANGULAR DIMENSIONS: MACHINED ±0°30' LOCATING ±0°30' CHAMFERS ±5°		  			SCALE: 1:1 SUBSYSTEM: POPOUT SHEET: 1 OF 1	

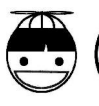
PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

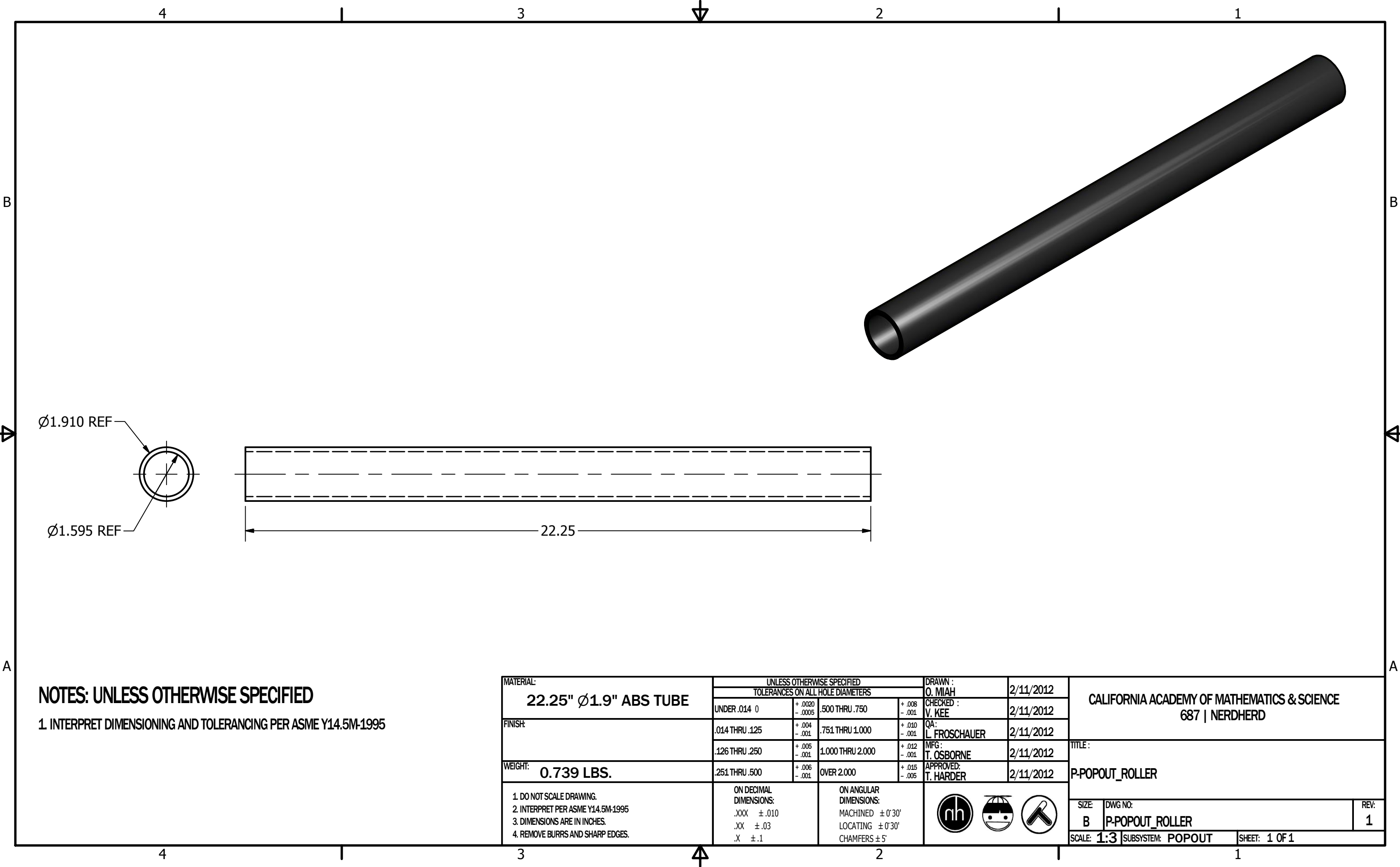
PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT



NOTES: UNLESS OTHERWISE SPECIFIED

- 1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995
- 2. ALL FILLETS AND ROUNDS R.125

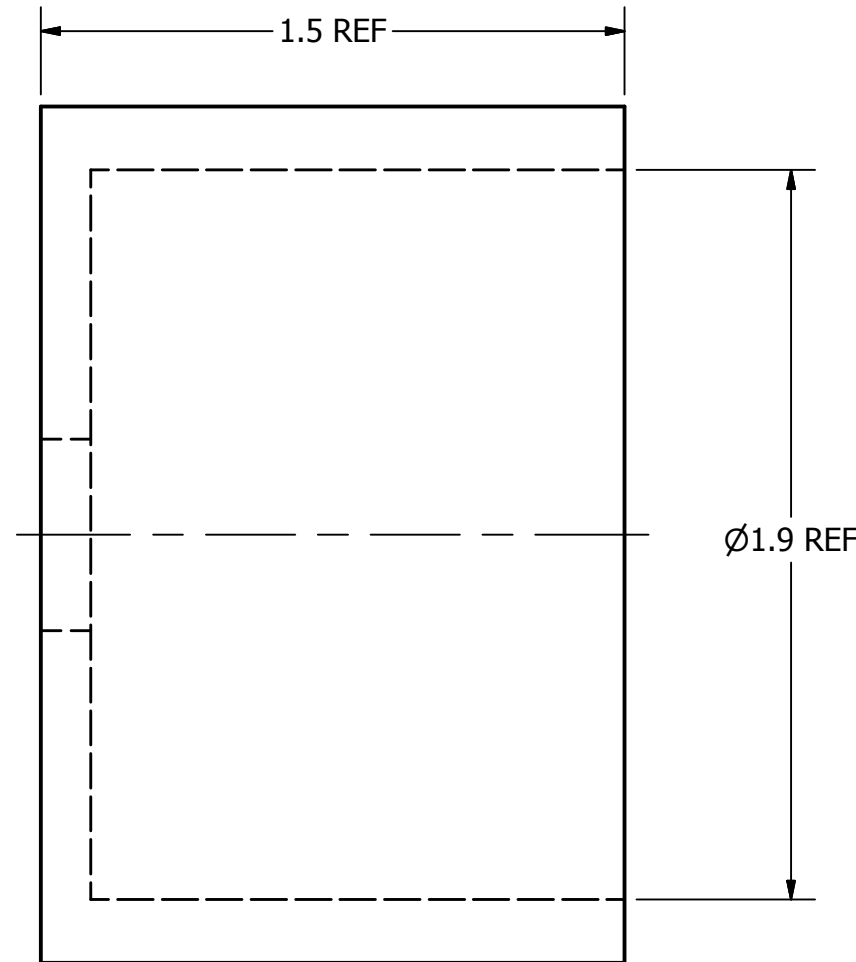
MATERIAL: 12" 2" X 1" .125 THK ALUMINUM 6061-T651 RECT TUBE	UNLESS OTHERWISE SPECIFIED TOLERANCES ON ALL HOLE DIAMETERS				DRAWN : D. DOAN	2/12/2012	CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD		
	UNDER .014 0	+ .0020 - .0005	.500 THRU .750	+ .008 - .001	CHECKED : V. KEE	2/12/2012			
FINISH:	.014 THRU .125	+ .004 - .001	.751 THRU 1.000	+ .010 - .001	QA: L. FROSCHAUER	2/15/2012	TITLE: P-PO-SIDE		
	.126 THRU .250	+ .005 - .001	1.000 THRU 2.000	+ .012 - .001	MFG: D. DOAN	2/15/2012			
WEIGHT: 0.657 LBS.	.251 THRU .500	+ .006 - .001	OVER 2.000	+ .015 - .005	APPROVED: T. HARDER	2/15/2012	SIZE: B DWG NO: P-PO-SIDE SCALE: 2:3 SUBSYSTEM: POPOUT SHEET: 1 OF 1		
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.	ON DECIMAL DIMENSIONS: .XXX ±.010 .XX ±.03 .X ±.1		ON ANGULAR DIMENSIONS: MACHINED ±0°30' LOCATING ±0°30' CHAMFERS ±5°		  				REV: 1



NOTES: UNLESS OTHERWISE SPECIFIED

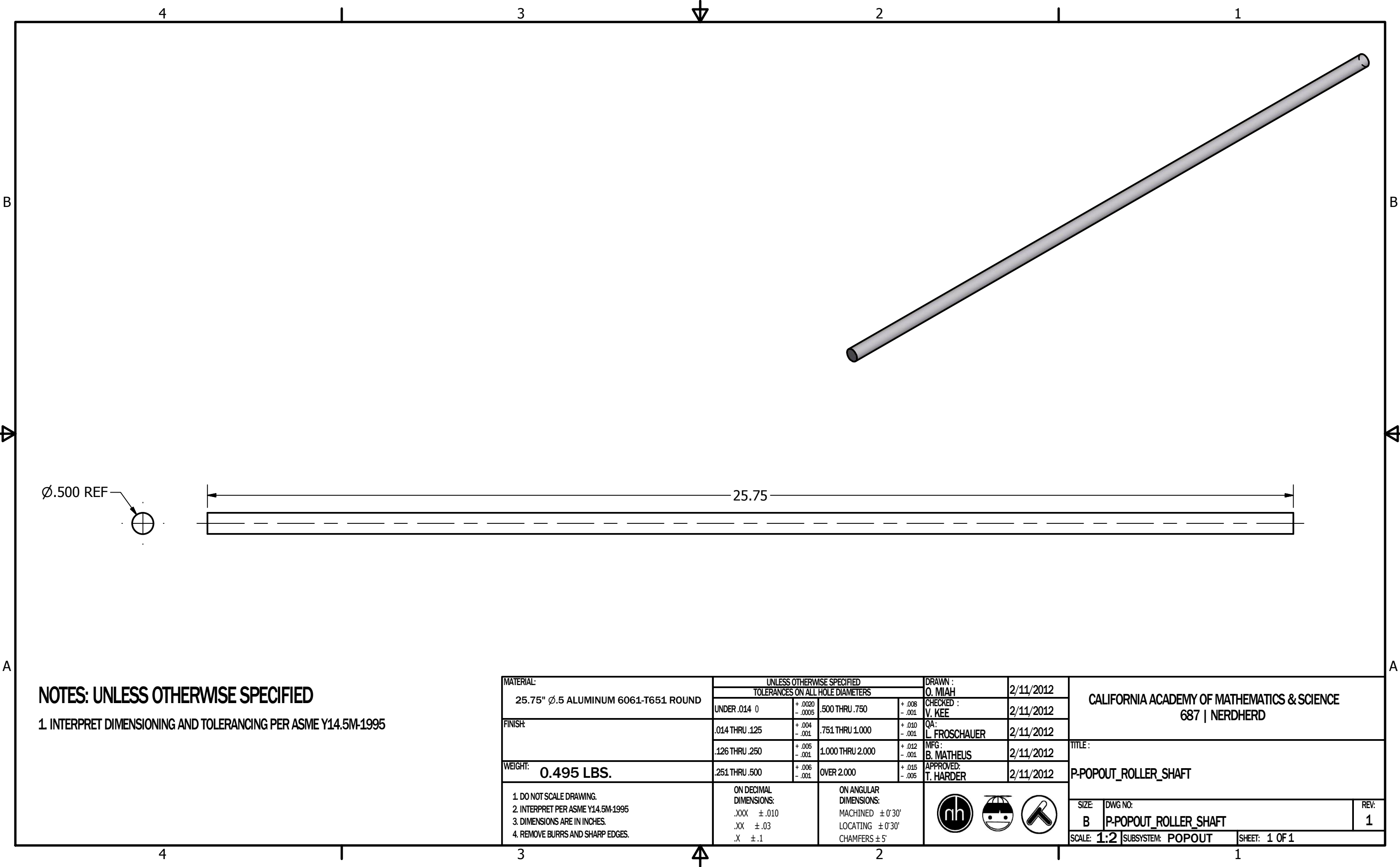
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

MATERIAL: 22.25" Ø1.9" ABS TUBE	UNLESS OTHERWISE SPECIFIED				DRAWN : O. MIAH	2/11/2012	CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD		
	TOLERANCES ON ALL HOLE DIAMETERS				CHECKED : V. KEE	2/11/2012			
FINISH:	UNDER .014 0	+ .0020 - .0005	.500 THRU .750	+ .008 - .001	QA: L. FROSCHAUER	2/11/2012	TITLE : P-POPOUT_ROLLER		
	.014 THRU .125	+ .004 - .001	.751 THRU 1.000	+ .010 - .001	MFG: T. OSBORNE	2/11/2012			
WEIGHT: 0.739 LBS.	.126 THRU .250	+ .005 - .001	1.000 THRU 2.000	+ .012 - .001	APPROVED: T. HARDER	2/11/2012	SIZE: B DWG NO: P-POPOUT_ROLLER REV: 1		
	.251 THRU .500	+ .006 - .001	OVER 2.000	+ .015 - .005					
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.	ON DECIMAL DIMENSIONS: .XXX ±.010 .XX ±.03 .X ±.1		ON ANGULAR DIMENSIONS: MACHINED ±0°30' LOCATING ±0°30' CHAMFERS ±5°		  			SCALE: 1:3 SUBSYSTEM: POPOUT SHEET: 1 OF 1	



1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

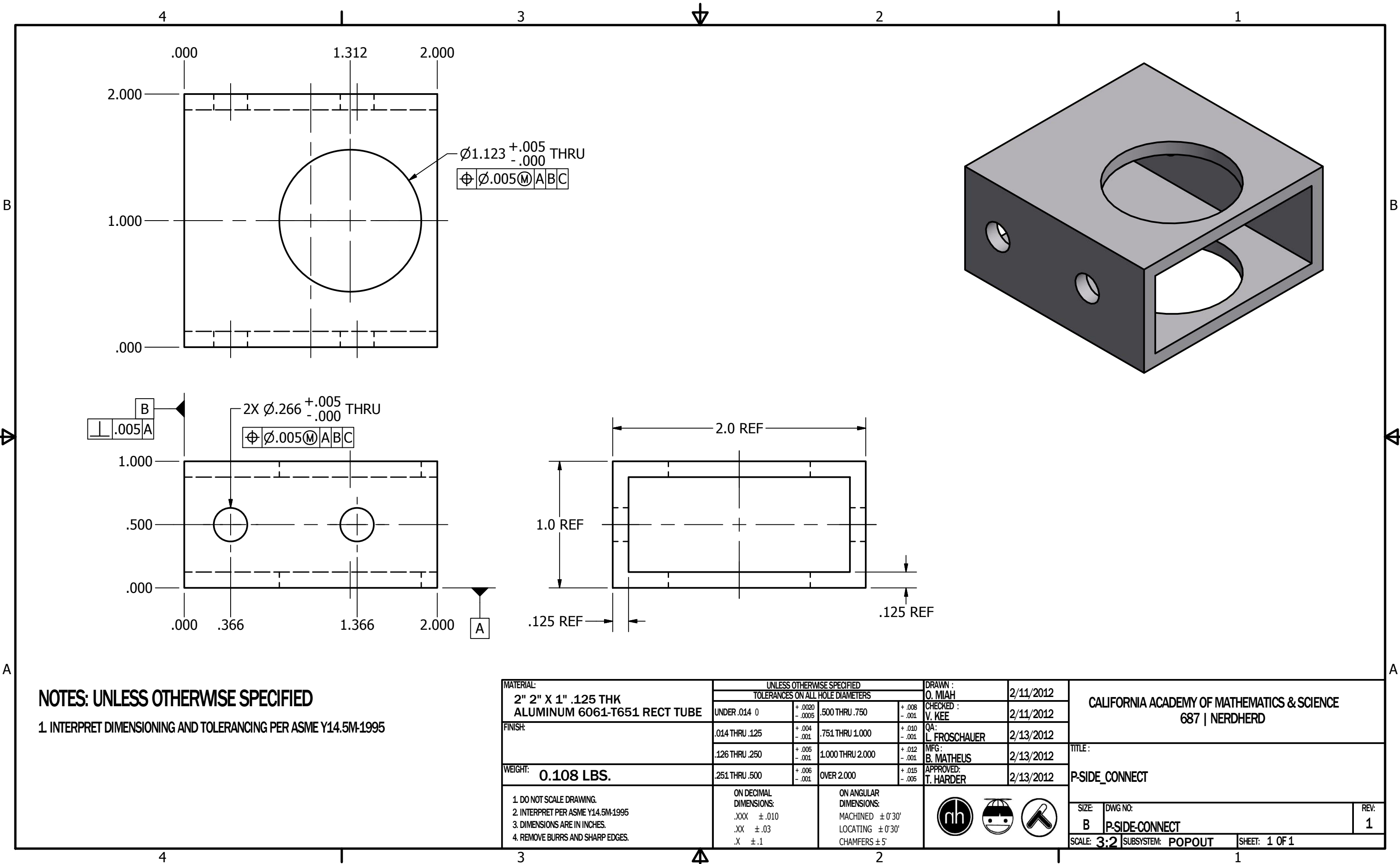
MATERIAL: 1.5" Ø2.2 ABS CAP	UNLESS OTHERWISE SPECIFIED			DRAWN : D. DOAN	2/11/2012	CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD		
	TOLERANCES ON ALL HOLE DIAMETERS			CHECKED : V. KEE	2/11/2012			
FINISH:	UNDER .014 0	+ .0020 - .0005	.500 THRU .750	+ .008 - .001	QA: L. FROSCHAUER		2/11/2012	
	.014 THRU .125	+ .004 - .001	.751 THRU 1.000	+ .010 - .001	MFG: T. OSBORNE		2/11/2012	
	.126 THRU .250	+ .005 - .001	1.000 THRU 2.000	+ .012 - .001	APPROVED: P. HARDER		2/11/2012	
WEIGHT: 0.075 LBS.	.251 THRU .500	+ .006 - .001	OVER 2.000			TITLE : P-POPOUT_ROLLER_CAP		
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.	ON DECIMAL DIMENSIONS: .XXX ± .010 .XX ± .03 .X ± .1	ON ANGULAR DIMENSIONS: MACHINED ± 0°30' LOCATING ± 0°30' CHAMFERS ± 5°	  			SIZE: B	DWG NO: P-POPOUT_ROLLER_CAP	REV: 1
				SCALE: 2:1		SUBSYSTEM: POPOUT		SHEET: 1 OF 1



NOTES: UNLESS OTHERWISE SPECIFIED

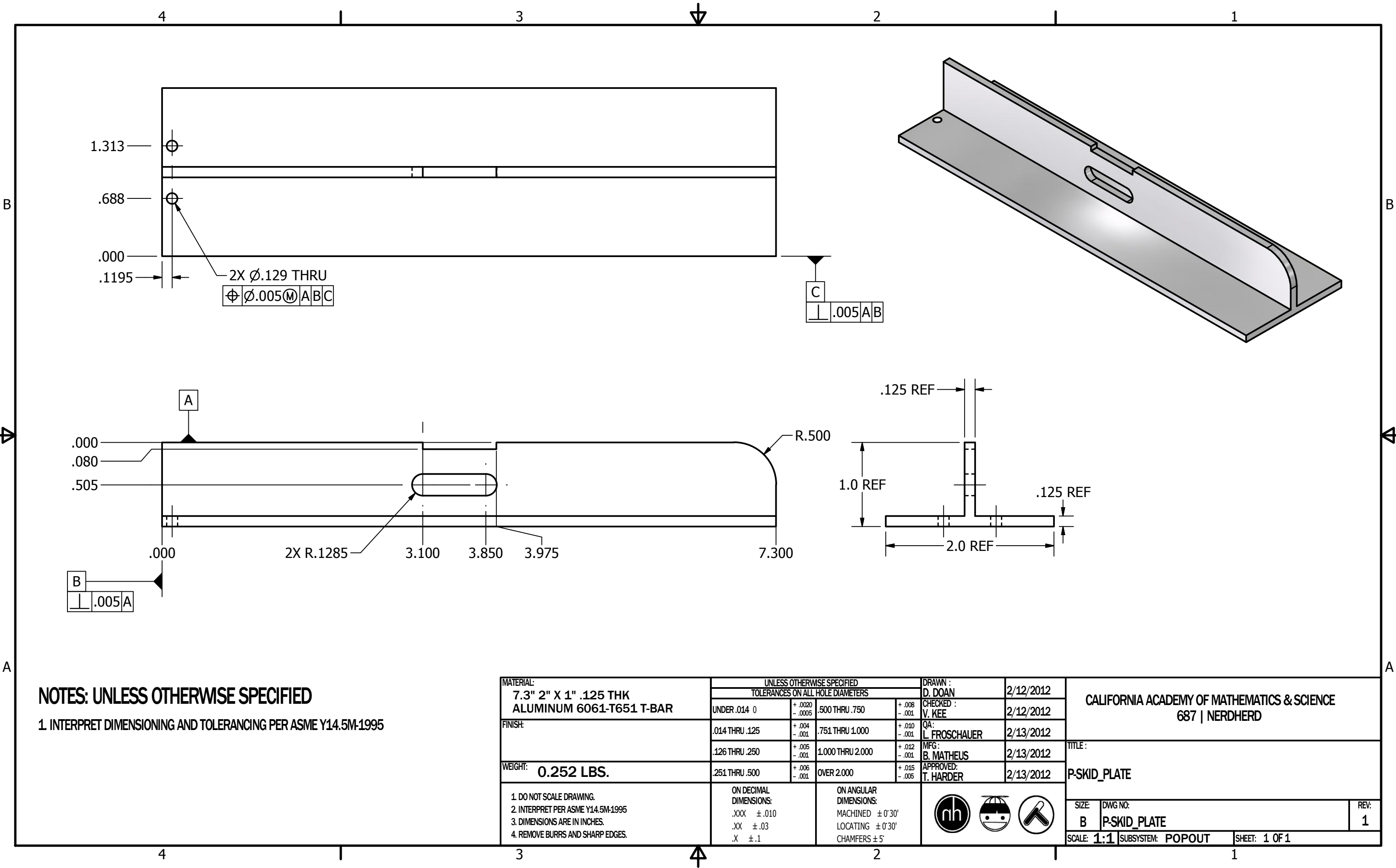
1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

MATERIAL: 25.75" Ø.5 ALUMINUM 6061-T651 ROUND		UNLESS OTHERWISE SPECIFIED				DRAWN : O. MIAH		2/11/2012		CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD									
		TOLERANCES ON ALL HOLE DIAMETERS				CHECKED : V. KEE		2/11/2012											
FINISH:		UNDER .014 0	+ .0020 - .0005	.500 THRU .750	+ .008 - .001	QA: L. FROSCHAUER		2/11/2012		TITLE : P-POPOUT_ROLLER_SHAFT									
		.014 THRU .125	+ .004 - .001	.751 THRU 1.000	+ .010 - .001	MFG : B. MATHEUS		2/11/2012											
WEIGHT: 0.495 LBS.		.251 THRU .500	+ .006 - .001	OVER 2.000	+ .015 - .005	APPROVED: T. HARDER		2/11/2012											
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DECIMAL DIMENSIONS: .XXX ±.010 .XX ±.03 .X ±.1		ON ANGULAR DIMENSIONS: MACHINED ±0°30' LOCATING ±0°30' CHAMFERS ±5°		  				SIZE:		DWG NO:		REV:					
										B		P-POPOUT_ROLLER_SHAFT		1					
										SCALE: 1:2				SUBSYSTEM: POPOUT				SHEET: 1 OF 1	



NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995



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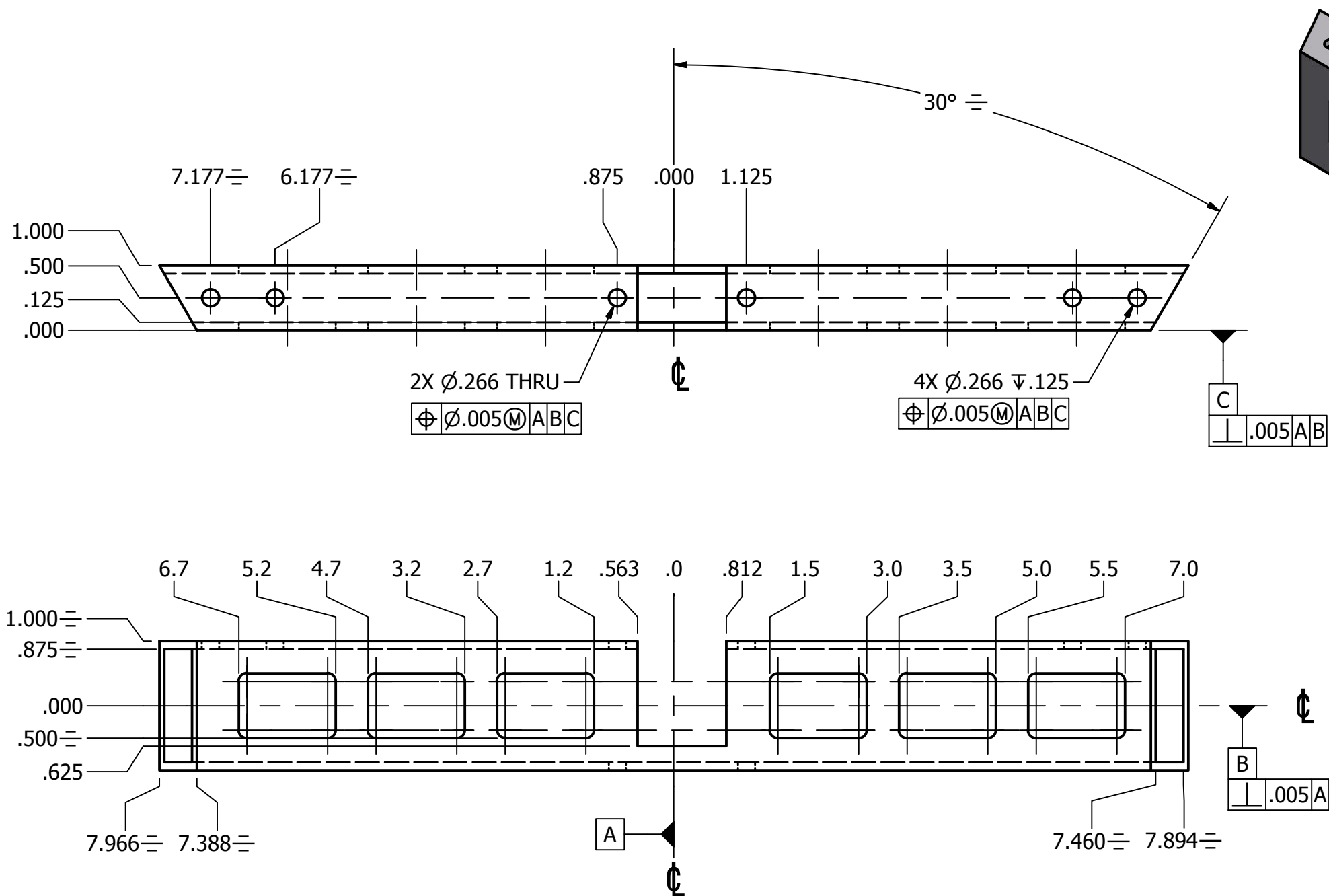
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B

B

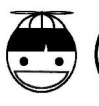
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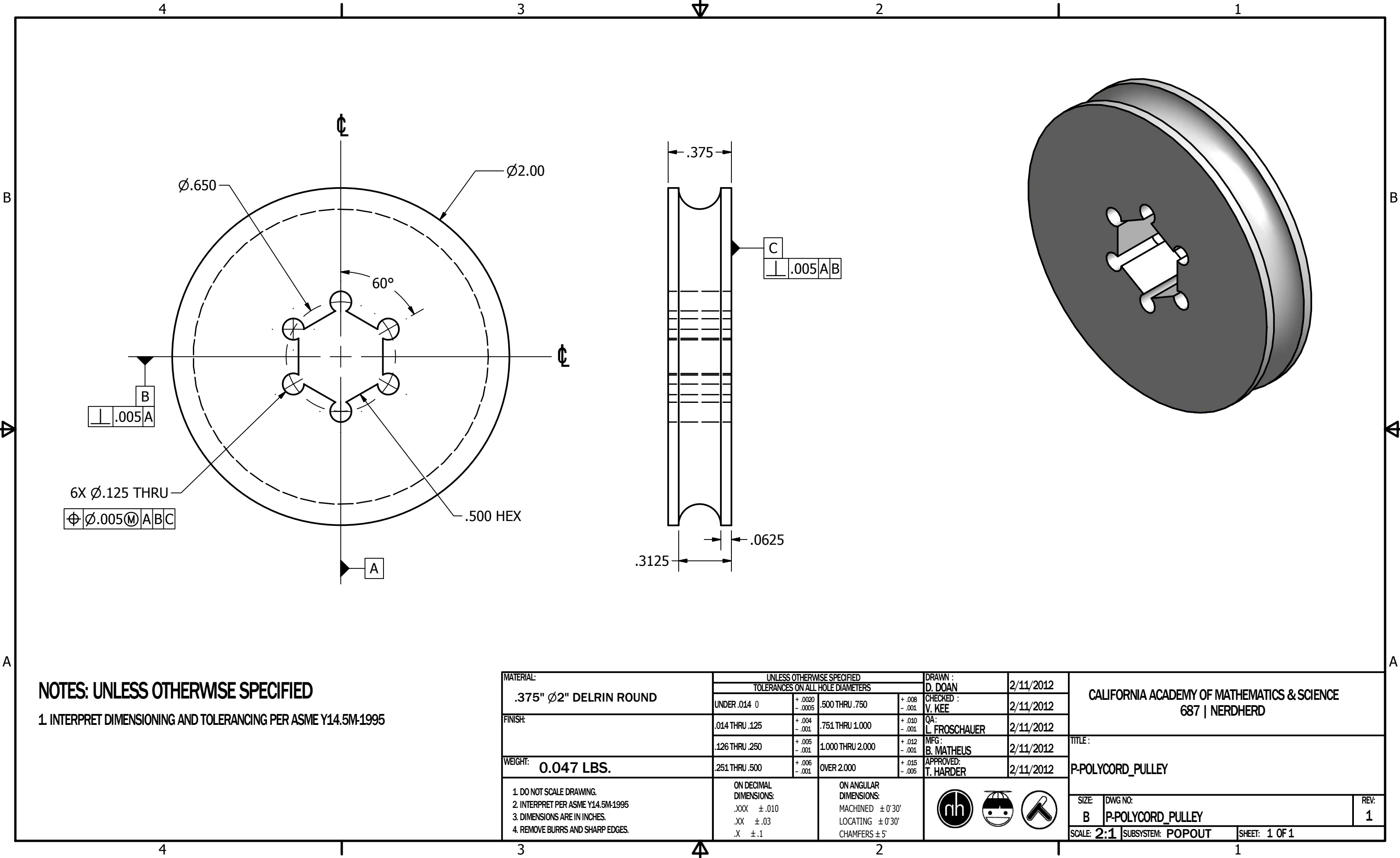
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NOTES: UNLESS OTHERWISE SPECIFIED

- 1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995
- 2. ALL FILLETS AND ROUNDS R.125
- 3. ALL POCKETS ARE THRU

MATERIAL: 16" 2" X 1" .125 THK ALUMINUM 6061-T651 RECT TUBE	UNLESS OTHERWISE SPECIFIED TOLERANCES ON ALL HOLE DIAMETERS				DRAWN : O. MIAH	2/11/2012	CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD		
	UNDER .014 0	+.0020 -.0005	.500 THRU .750	+.008 -.001	CHECKED : V. KEE	2/11/2012			
	.014 THRU .125	+.004 -.001	.751 THRU 1.000	+.010 -.001	QA: L. FROSCHAUER	2/13/2012	TITLE: P-CROSSBAR_OPPOSITE		
	.126 THRU .250	+.005 -.001	1.000 THRU 2.000	+.012 -.001	MFG: D. DOAN	2/13/2012			
WEIGHT: 0.742 LBS.	.251 THRU .500	+.006 -.001	OVER 2.000	+.015 -.005	APPROVED: T. HARDER	2/13/2012	SIZE: B DWG NO: P-CROSSBAR_OPPOSITE SCALE: 1:2 SUBSYSTEM: POPOUT SHEET: 1 OF 1		
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.	ON DECIMAL DIMENSIONS: .XXX ±.010 .XX ±.03 .X ±.1		ON ANGULAR DIMENSIONS: MACHINED ±0°30' LOCATING ±0°30' CHAMFERS ±5°		  				REV: 1



NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1995

MATERIAL: .375" Ø2" DELRIN ROUND		UNLESS OTHERWISE SPECIFIED				DRAWN : D. DOAN		2/11/2012		CALIFORNIA ACADEMY OF MATHEMATICS & SCIENCE 687 NERDHERD					
		TOLERANCES ON ALL HOLE DIAMETERS				CHECKED : V. KEE		2/11/2012							
FINISH:		UNDER .014 0	+ .0020 - .0005	.500 THRU .750	+ .008 - .001	QA: L. FROSCHAUER		2/11/2012		TITLE : P-POLYCORD_PULLEY					
		.014 THRU .125	+ .004 - .001	.751 THRU 1.000	+ .010 - .001	MFG: B. MATHEUS		2/11/2012							
WEIGHT: 0.047 LBS.		.251 THRU .500	+ .006 - .001	OVER 2.000	+ .015 - .005	APPROVED: T. HARDER		2/11/2012							
1. DO NOT SCALE DRAWING. 2. INTERPRET PER ASME Y14.5M-1995 3. DIMENSIONS ARE IN INCHES. 4. REMOVE BURRS AND SHARP EDGES.		ON DECIMAL DIMENSIONS:		ON ANGULAR DIMENSIONS:		  									
		.XXX ±.010		MACHINED ±0°30'											
		.XX ±.03		LOCATING ±0°30'											
		.X ±.1		CHAMFERS ±5°											
										SIZE:		DWG NO:		REV:	
										B		P-POLYCORD_PULLEY		1	
										SCALE: 2:1		SUBSYSTEM: POPOUT		SHEET: 1 OF 1	