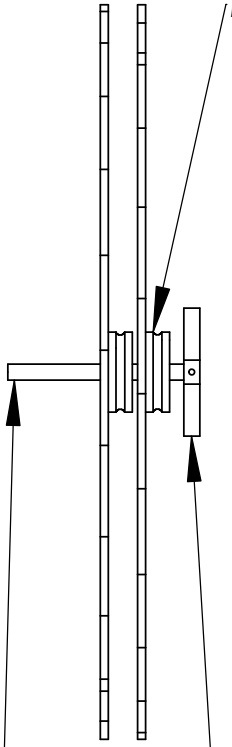
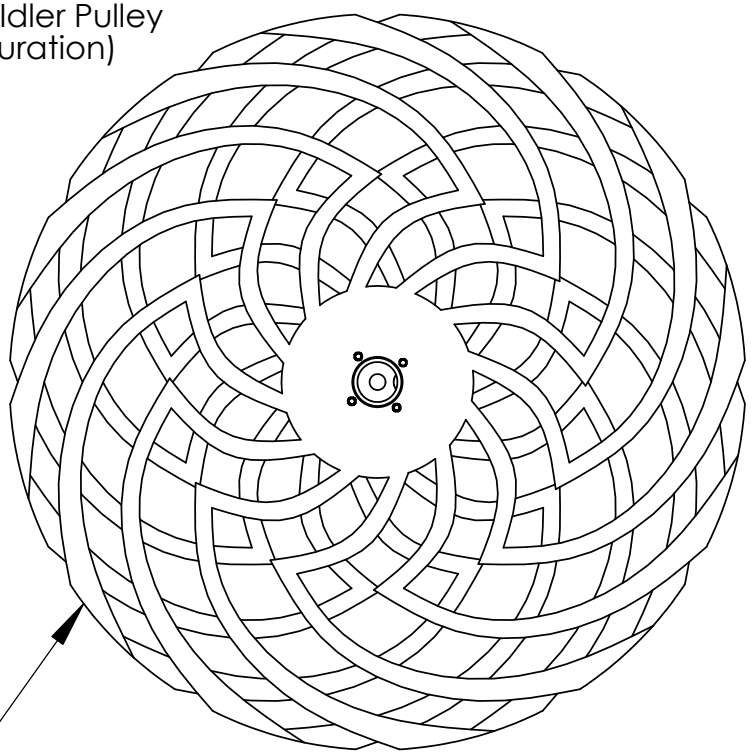
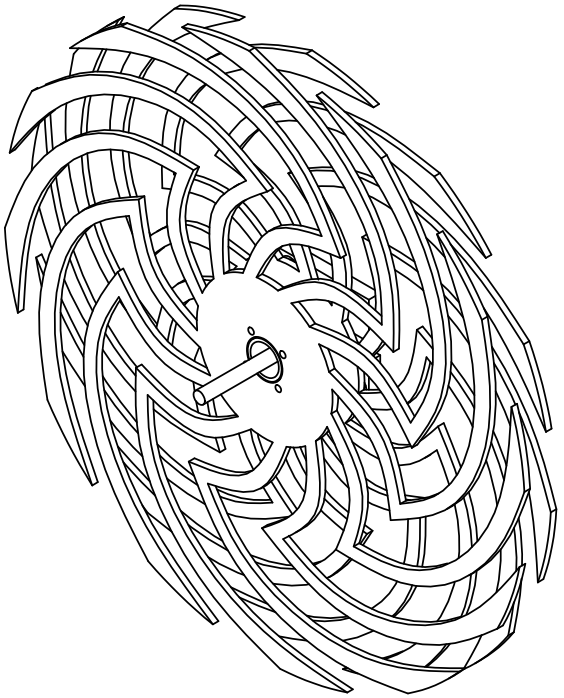


MP08a x2 - Idler Pulley
(top configuration)



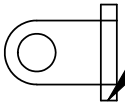


MP01 x2 - Spin Plate

MP04 - Bottom Back Plate

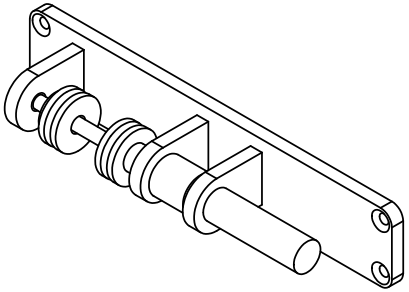
MP09 - Top Shaft

MP03 - Back Bottom Plate

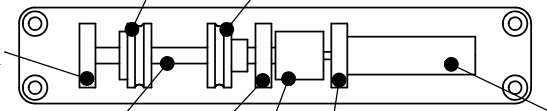


MP08 - Idler Pulley (Bottom configuration)

MP02 - Shaft Pulley Bottom



MP05 - Pillow Block



MP07 - Motor

MP10 - Bottom Shaft

MP05 - Pillow Block (2)

MP11 - Shaft Coupling

MP06 - Motor Mount

Not Shown:
MP12 (x4) - Top Ball Bearings
MP13 (x3) - Bottom Sleeve Bearings
MP14 - Urethane Belt
MP15 - Wall Transformer

Jeff Lieberman
lieb@alum.mit.edu
2010

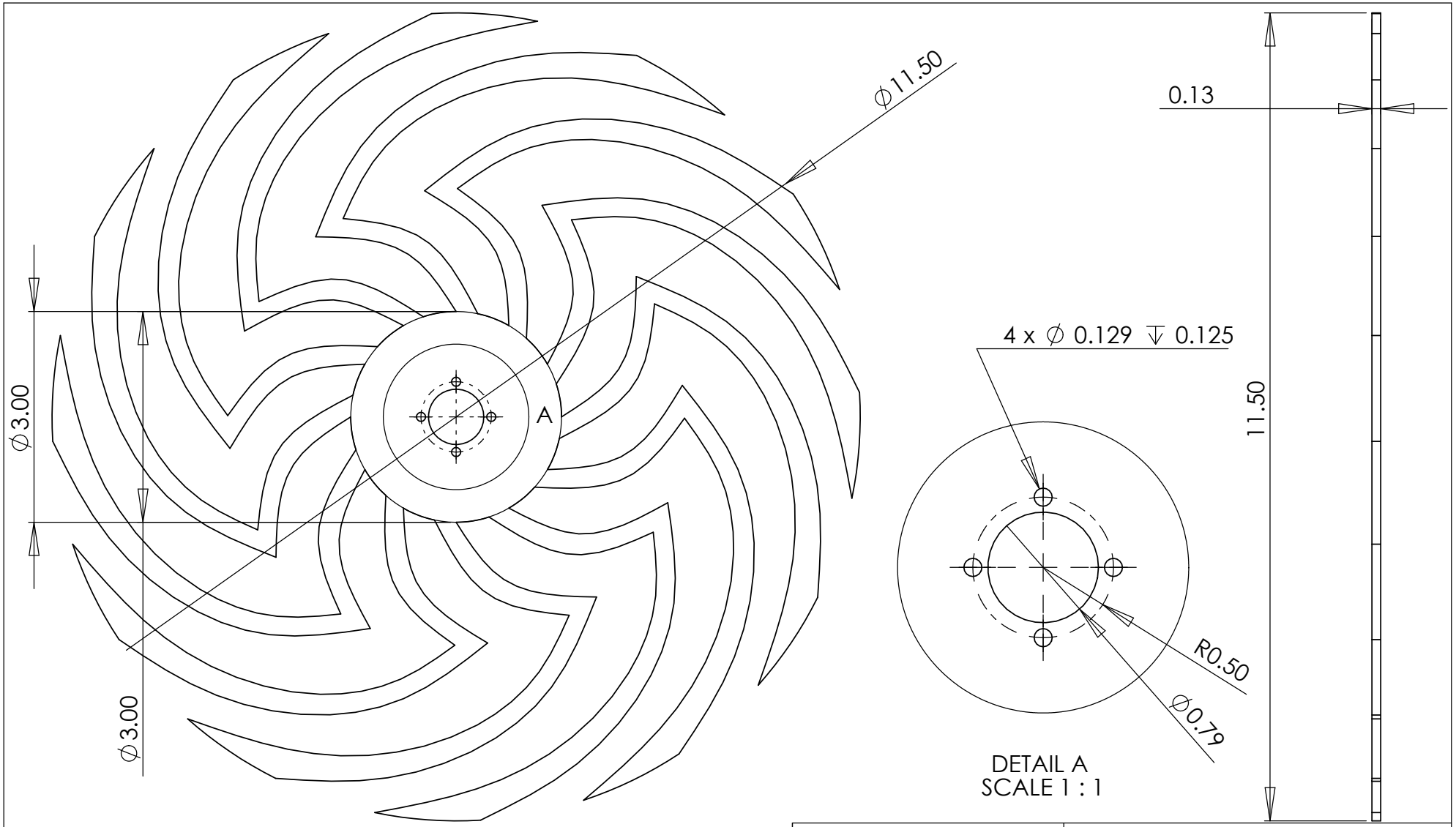
Plebian Design

TITLE:

MP00 - Moore Pattern Assembly

MATERIAL	SIZE	DWG. NO.	REV
FINISH	A		
DO NOT SCALE DRAWING	SCALE: 1:10	WEIGHT:	SHEET 1 OF 1

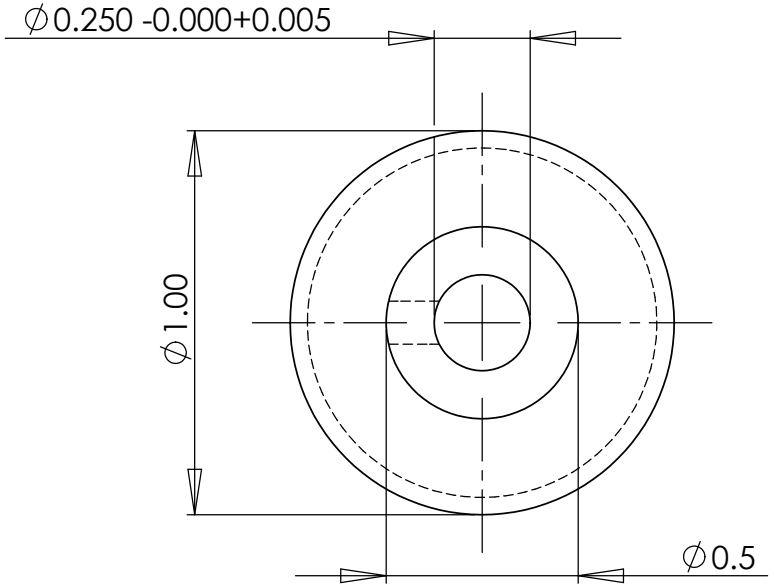
5 4 3 2 1

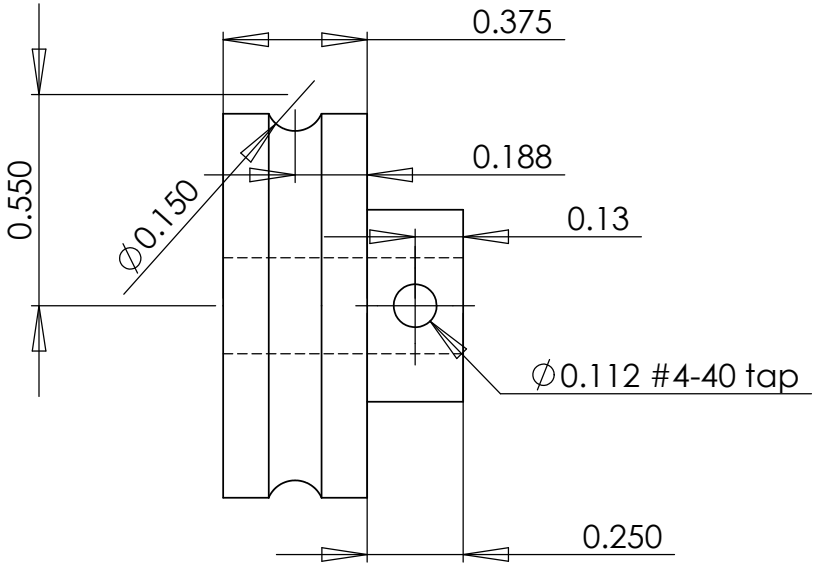


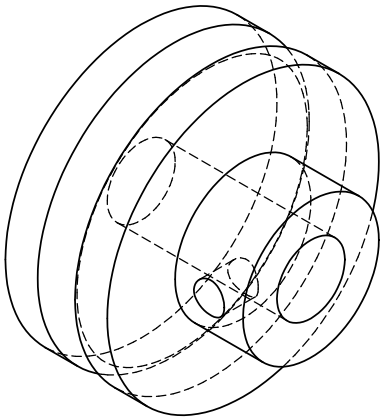
DETAIL A
SCALE 1 : 1

Aluminum, bead-blasted and black anodized.

Jeff Lieberman lieb@alum.mit.edu 2010	Plebian Design		
	TITLE: MP01 - Spin Plate		
MATERIAL	SIZE A	DWG. NO. MP01-spinPlate	REV
FINISH			
DO NOT SCALE DRAWING	SCALE: 1:5	WEIGHT:	SHEET 1 OF 1

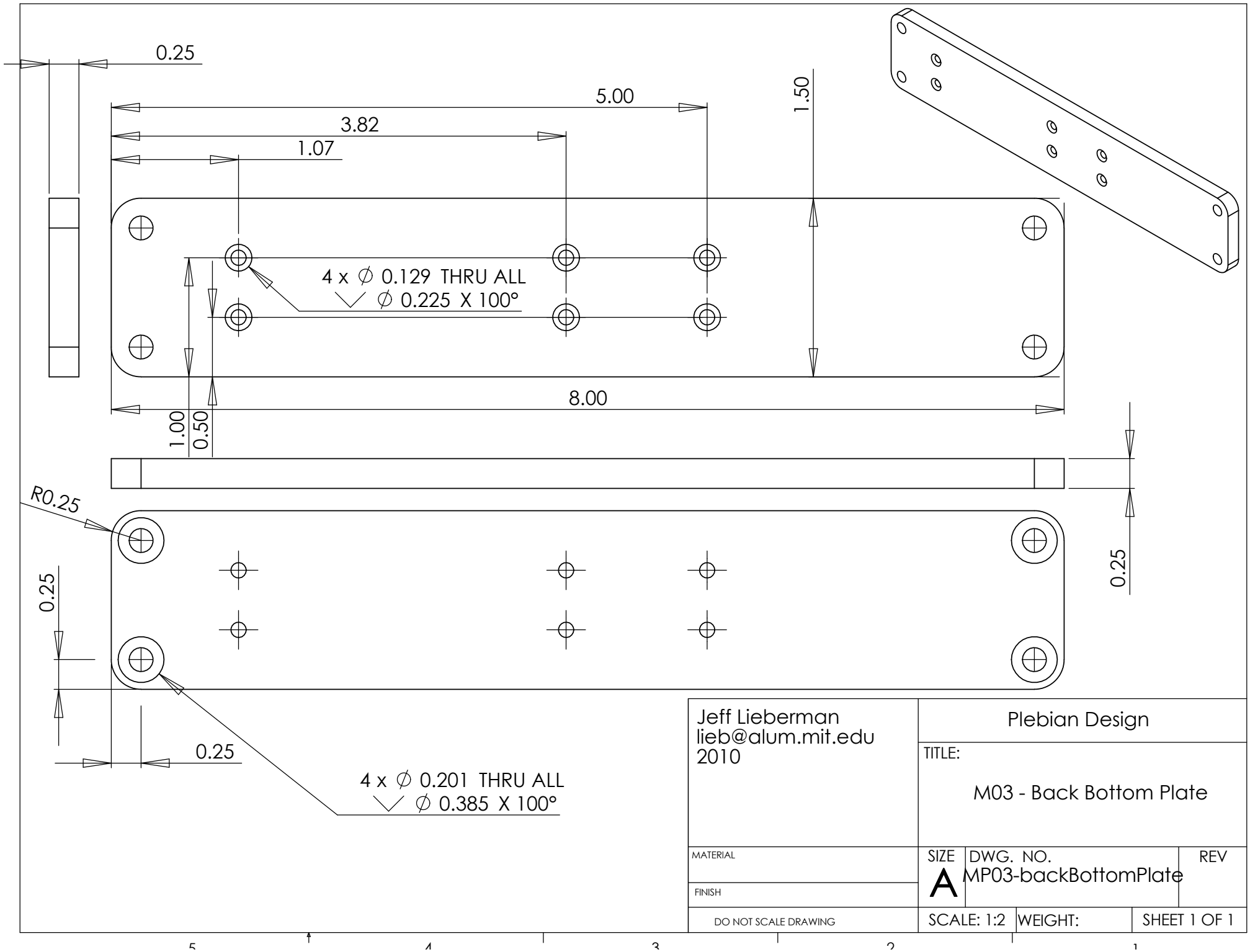




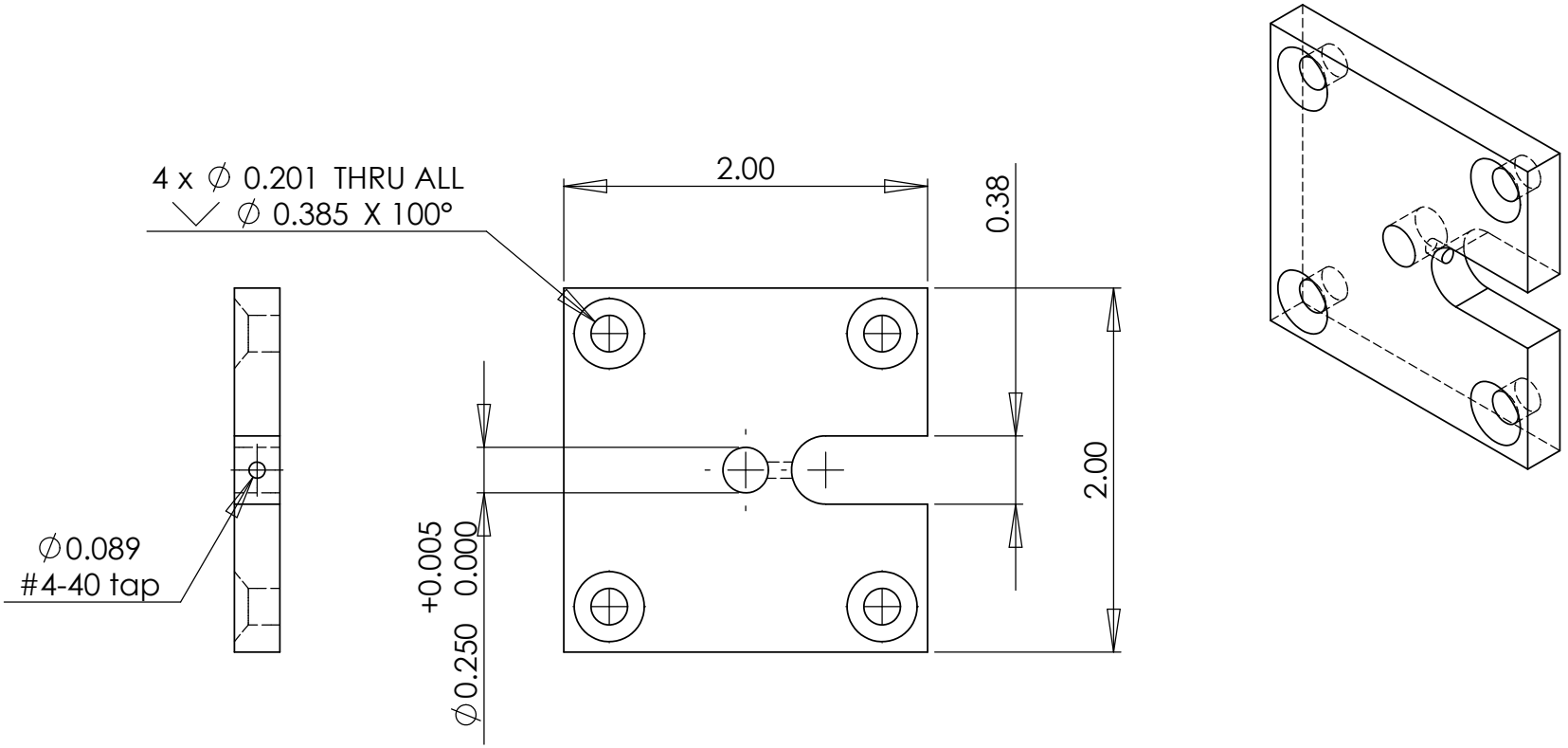


Jeff Lieberman lieb@alum.mit.edu 2010	Plebian Design	
	TITLE: MP02 - Shaft Pulley Bottom	
MATERIAL	SIZE A	DWG. NO. MP02-shaftPulleyBottom / REV
FINISH		
DO NOT SCALE DRAWING	SCALE: 1:1	WEIGHT: / SHEET 1 OF 1

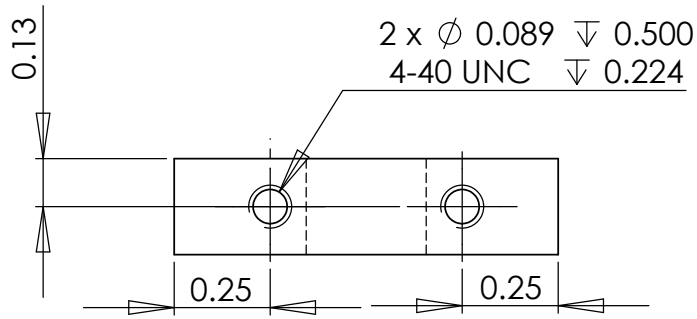
5 4 3 2 1

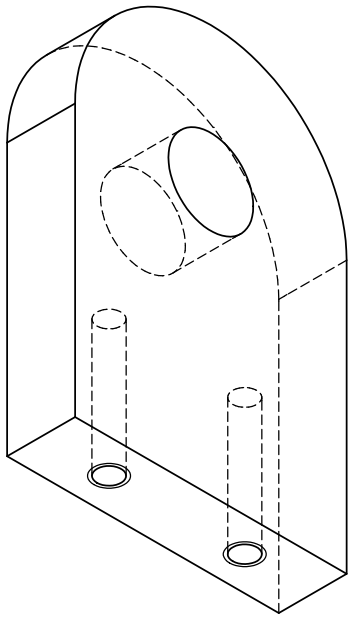


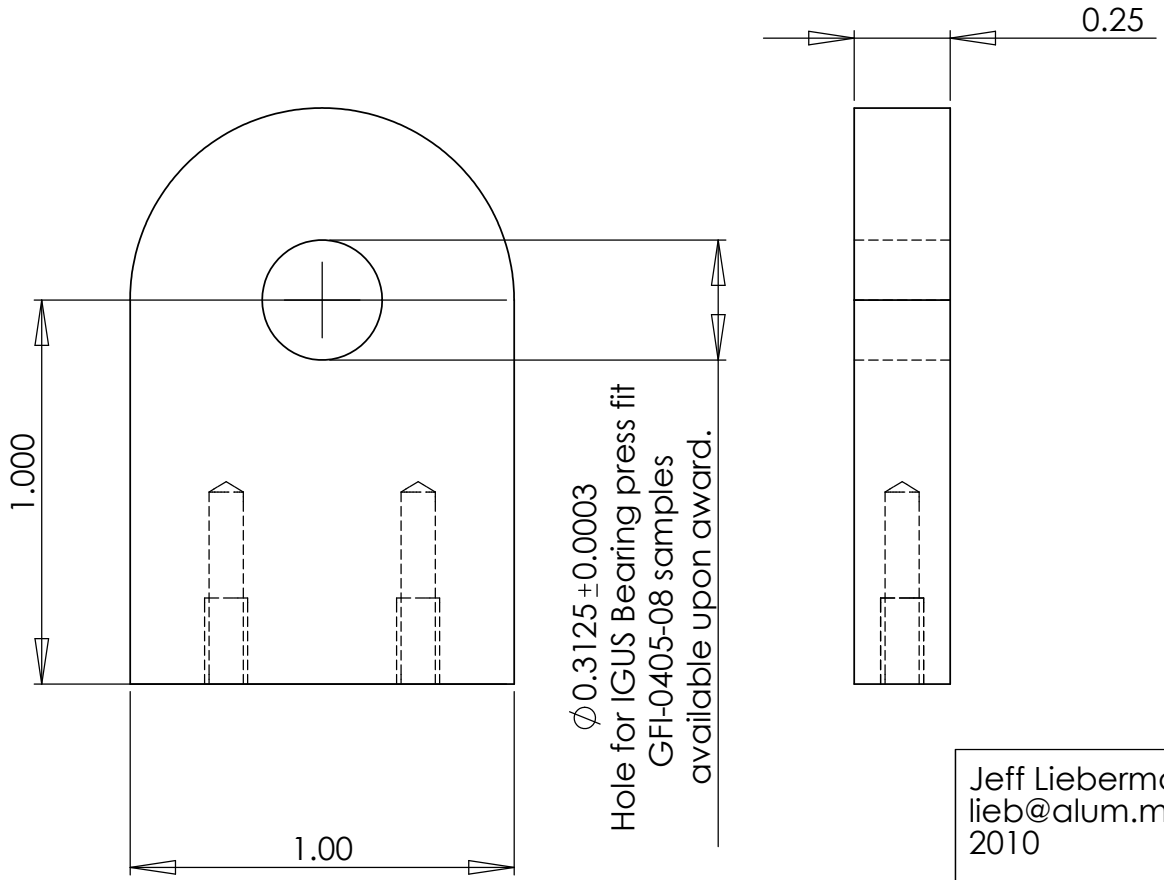
Jeff Lieberman lieb@alum.mit.edu 2010	Plebian Design	
	TITLE: M03 - Back Bottom Plate	
MATERIAL	SIZE A	DWG. NO. MP03-backBottomPlate / REV
FINISH		
DO NOT SCALE DRAWING	SCALE: 1:2	WEIGHT: / SHEET 1 OF 1



Jeff Lieberman lieb@alum.mit.edu 2010	Plebian Design	
	TITLE: MP04 - Top Back Plate	
MATERIAL	SIZE A	DWG. NO. MP04-backTopPlate / REV
FINISH		
DO NOT SCALE DRAWING	SCALE: 1:1	WEIGHT: / SHEET 1 OF 1

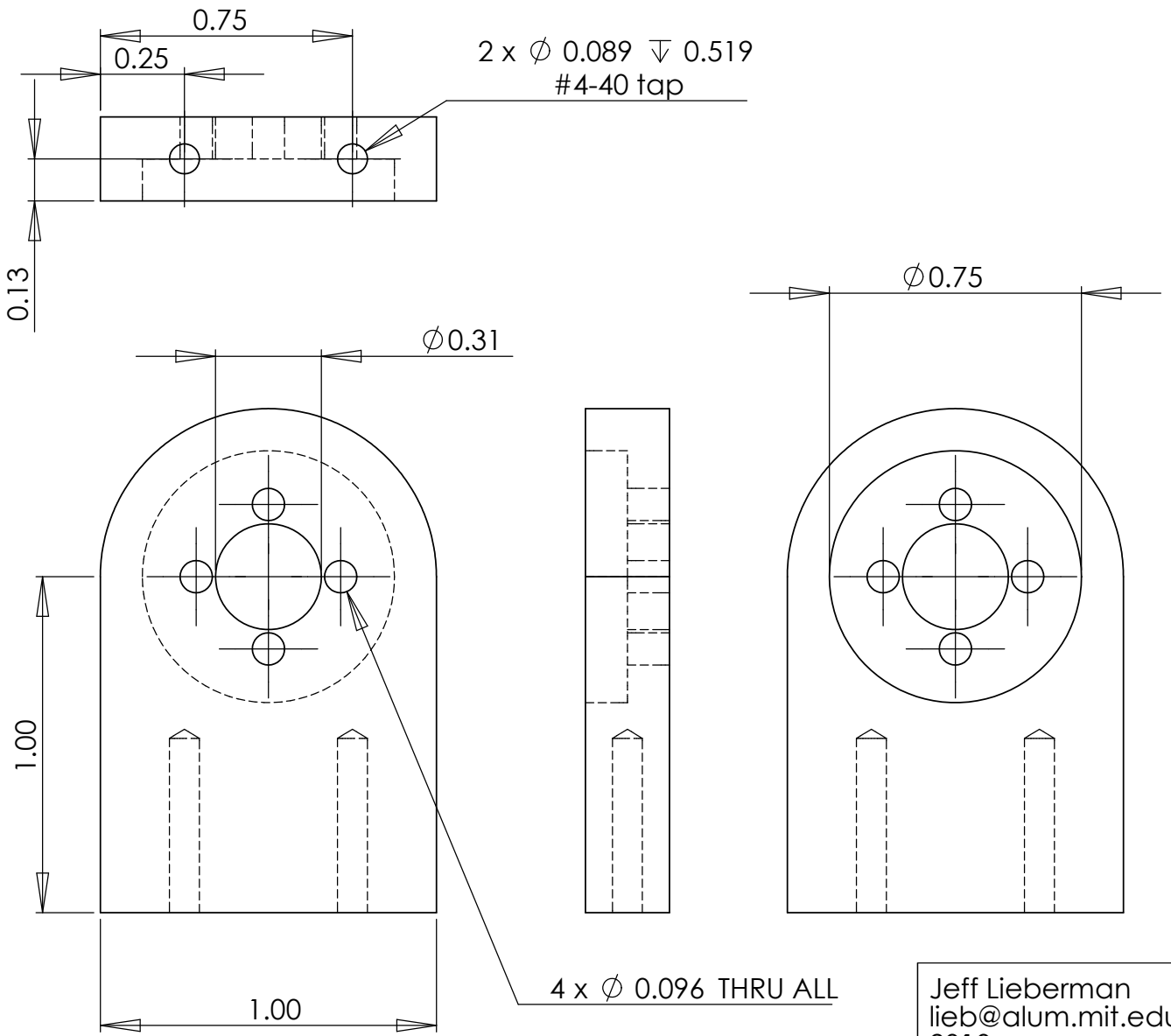


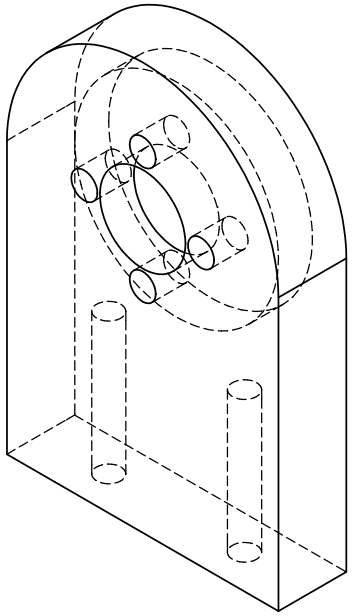




Jeff Lieberman lieb@alum.mit.edu 2010	Plebian Design		
	TITLE: MP05 - Pillow Block		
MATERIAL	SIZE A	DWG. NO. MP05-pillowBlock	REV
FINISH			
DO NOT SCALE DRAWING	SCALE: 1:1	WEIGHT:	SHEET 1 OF 1

5 4 3 2 1

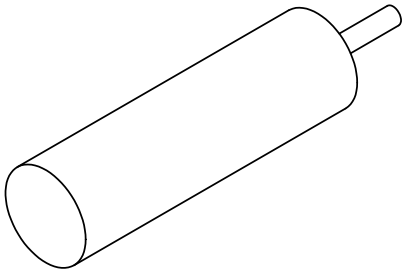


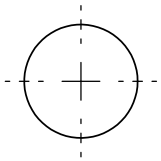


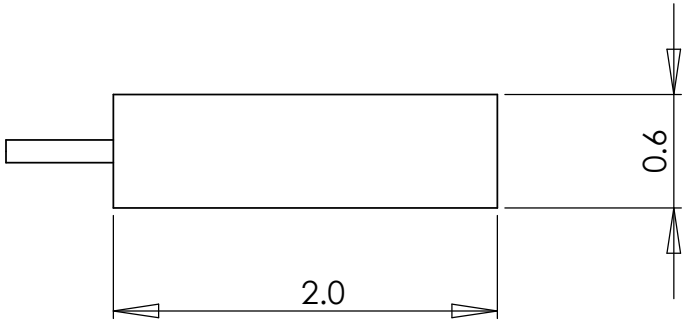
Note: Final dimensions of motor mounting (plunge size/depth, hole pattern) to be specified soon - still specifying final motor. No general details will change, only specifics. Looking for preliminary quote.

Jeff Lieberman lieb@alum.mit.edu 2010	Plebian Design		
	TITLE: MP06 - Motor Mount		
MATERIAL	SIZE A	DWG. NO. MP06-motorMount	REV
FINISH			
DO NOT SCALE DRAWING	SCALE: 1:1	WEIGHT:	SHEET 1 OF 1

5 4 3 2 1







NOTE: Looking for a DC or AC motor,
that runs between 5-10 RPM (can be through undervoltage operation), and is virtually silent with operation from a few feet away.

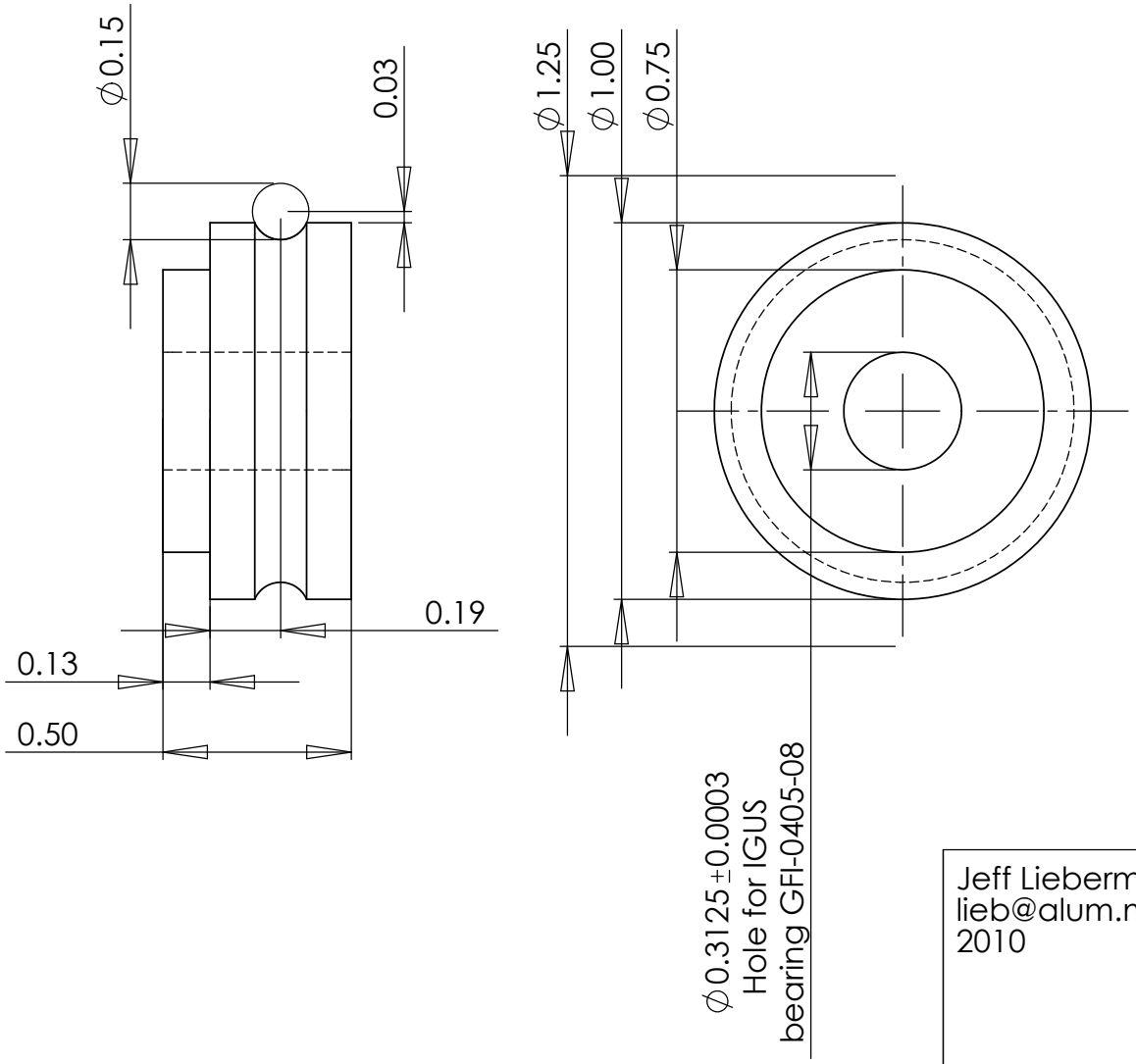
Dimensions can vary, above is just as a reference, but should be very low power and small. Less than 1" diameter, and less than 4" in length.

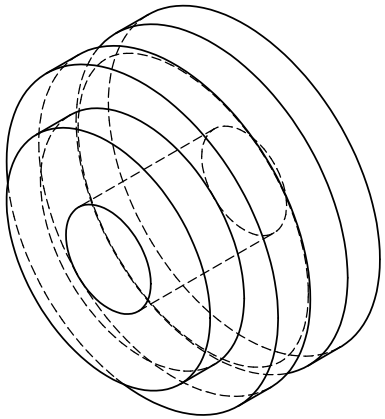
Torque requirements are minimal.
Will need to test with a sample before full order.

Output shaft between 1/8"-1/4".

Jeff Lieberman lieb@alum.mit.edu 2010	Plebian Design		
	TITLE: MP07 - Motor		
MATERIAL	SIZE A	DWG. NO. MP07-motor	REV
FINISH			
DO NOT SCALE DRAWING	SCALE: 1:1	WEIGHT:	SHEET 1 OF 1

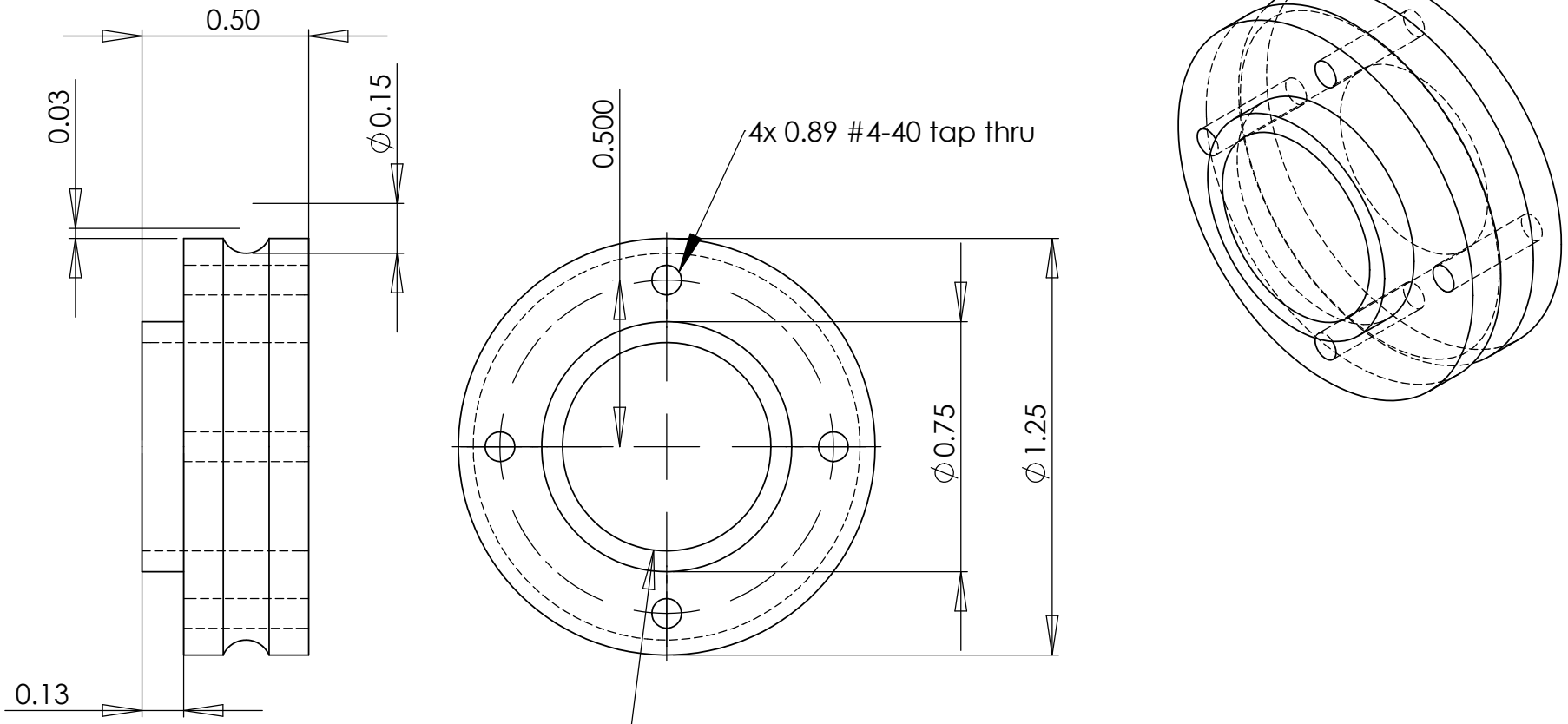
5 4 3 2 1





Jeff Lieberman lieb@alum.mit.edu 2010	Plebian Design		
	TITLE: MP08 - Idler Pulley (Bottom)		
MATERIAL	SIZE A	DWG. NO. MP08-idlerPulley	REV
FINISH			
DO NOT SCALE DRAWING	SCALE: 1:1	WEIGHT:	SHEET 1 OF 1

5 4 3 2 1



∅0.625 THRU ±0.0005
For 5/8" bearing press fit (similar to McMaster #57155K305)
Bearing samples available upon awarding of job.

Jeff Lieberman lieb@alum.mit.edu 2010	Plebian Design		
	TITLE: MP08a - Idler Pulley (Top)		
MATERIAL	SIZE A	DWG. NO. MP08a-idlerPulleyTop	REV
FINISH			
DO NOT SCALE DRAWING	SCALE: 2:1	WEIGHT:	SHEET 1 OF 1

5 4 3 2 1