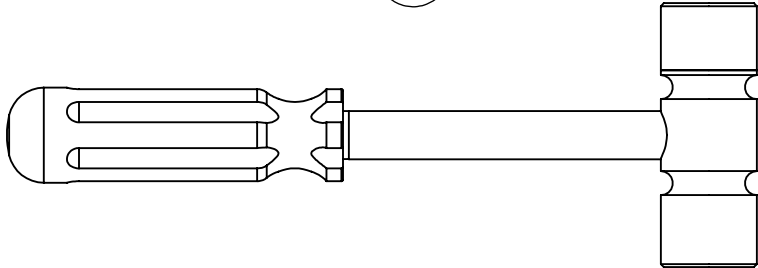
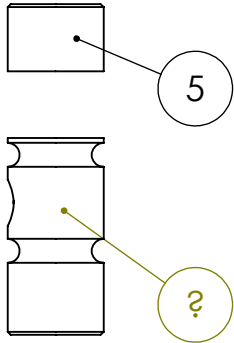
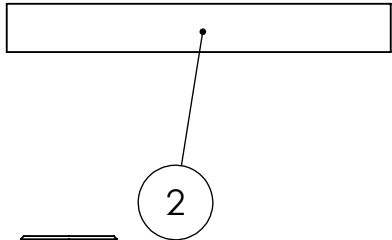
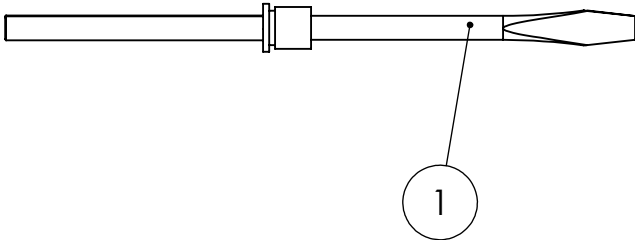
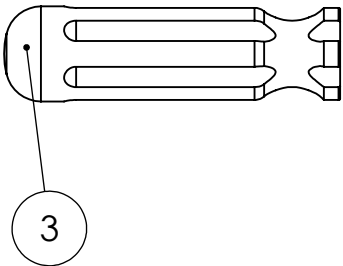
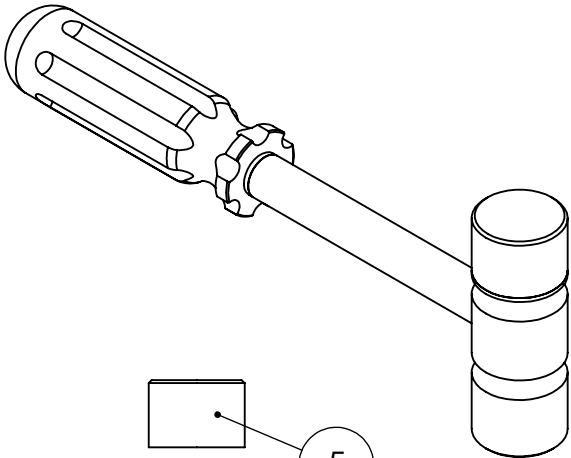


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	driver_shaft_01	Finished Blade Shaft	1
2	tube_01	Tube	1
3	handle_03	Hammer Handle	1
4	Head_plastic_face	Hammer Head	1
5	Head_plastic_face_2	Plastic Face	1



UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE IN INCHES
 TOLERANCES:
 FRACTIONAL $\pm 1/32"$
 ANGULAR: MACH $\pm .5$ BEND $\pm$
 TWO PLACE DECIMAL $\pm .01$
 THREE PLACE DECIMAL $\pm .005$

INTERPRET DRAWING PER: ASME Y14.5-1994

MATERIAL Steel/Acrylic
 FINISH
 COMMENTS:

Hammer Assembly

DRAWN EJJ DATE 2/13/2013
 CHECKED D&G DATE 2/13/2013

REMOVE ALL SHARP EDGES AND BURRS

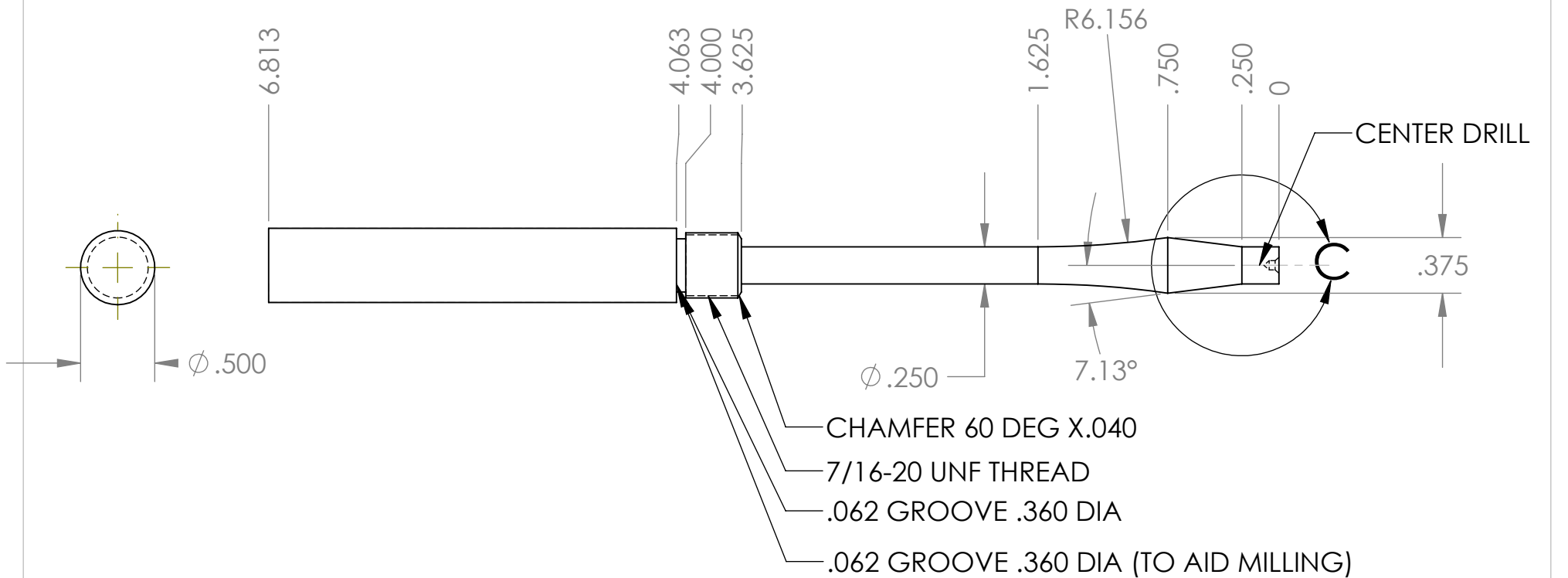


SIZE Part
A 100
 SCALE: 1:2 WEIGHT: SHEET 1 OF 7

OPERATIONS LIST		
1	Saw	Cut stock to 7 length
2	Trak CNC Lathe	Face/Turn/Center Drill one end
3	Trak CNC Lathe	Turn profile/Thread/Groove Prog 711
4	Wire brush wheel	Burnish threads

Prog 711 notes

DETAIL C
SCALE 2 : 1



UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES

TOLERANCES:

FRACTIONAL $\pm 1/32"$

ANGULAR: MACH $\pm .5$ BEND $\pm$

TWO PLACE DECIMAL $\pm .01$

THREE PLACE DECIMAL $\pm .005$

INTERPRET DRAWING PER: ASME Y14.5-1994

MATERIAL Steel

FINISH

COMMENTS:

CNC turned shaft

DRAWN

EJJ

DATE

2/13/2013

CHECKED

D&G

DATE

2/13/2013

REMOVE ALL SHARP EDGES AND BURRS



SMITH COLLEGE

SIZE

A

Part

100

PART REV

DOC REV

7

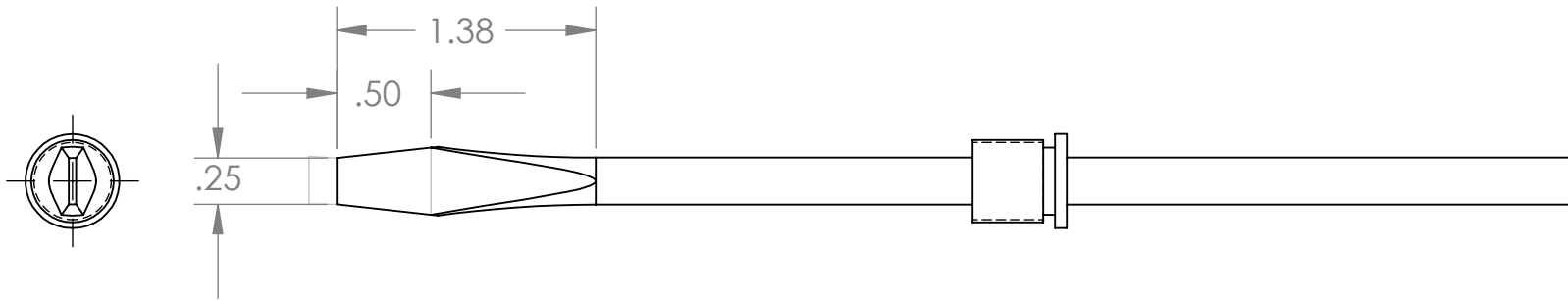
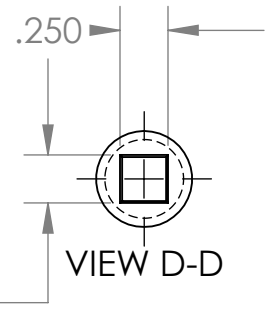
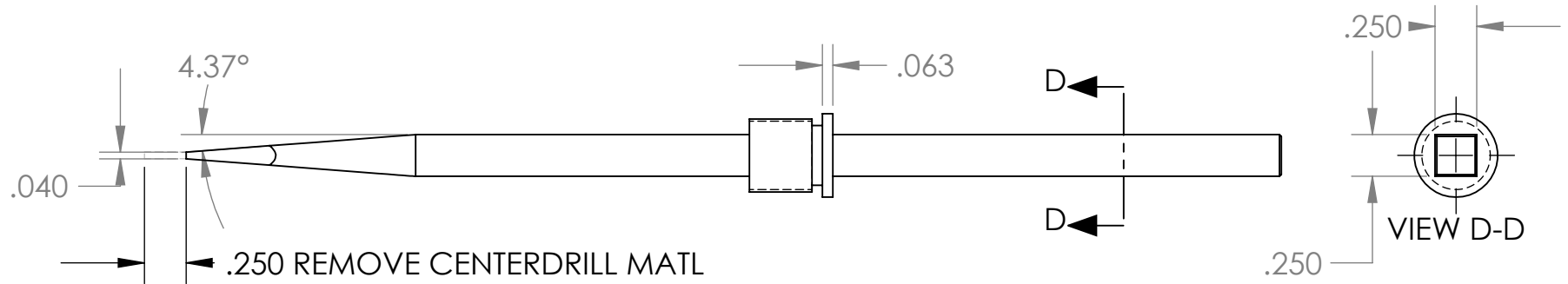
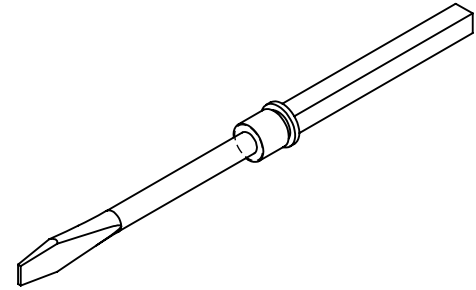
SCALE: 1:1

WEIGHT:

SHEET 3 OF 7

OPERATIONS LIST

1	Emery cloth	Polish shaft
2	Bridgeport Mill	Mill .250 square flats
3	Trak Mill	Machine blade shape/trim end/Engrave
4	Torch/casenite	Heat treat and temper blade
5	Emery cloth	Polish blade faces



UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES

TOLERANCES:

FRACTIONAL $\pm 1/32"$

ANGULAR: MACH $\pm .5$ BEND $\pm$

TWO PLACE DECIMAL $\pm .01$

THREE PLACE DECIMAL $\pm .005$

INTERPRET DRAWING PER: ASME Y14.5-1994

MATERIAL Steel

FINISH

COMMENTS:

Finished Blade Shaft

DRAWN

EJJ

DATE

2/13/2013

CHECKED

D&G

DATE

2/13/2013

REMOVE ALL SHARP EDGES AND BURRS



SMITH COLLEGE

SIZE

A

Part

100

PART REV

DOC REV

7

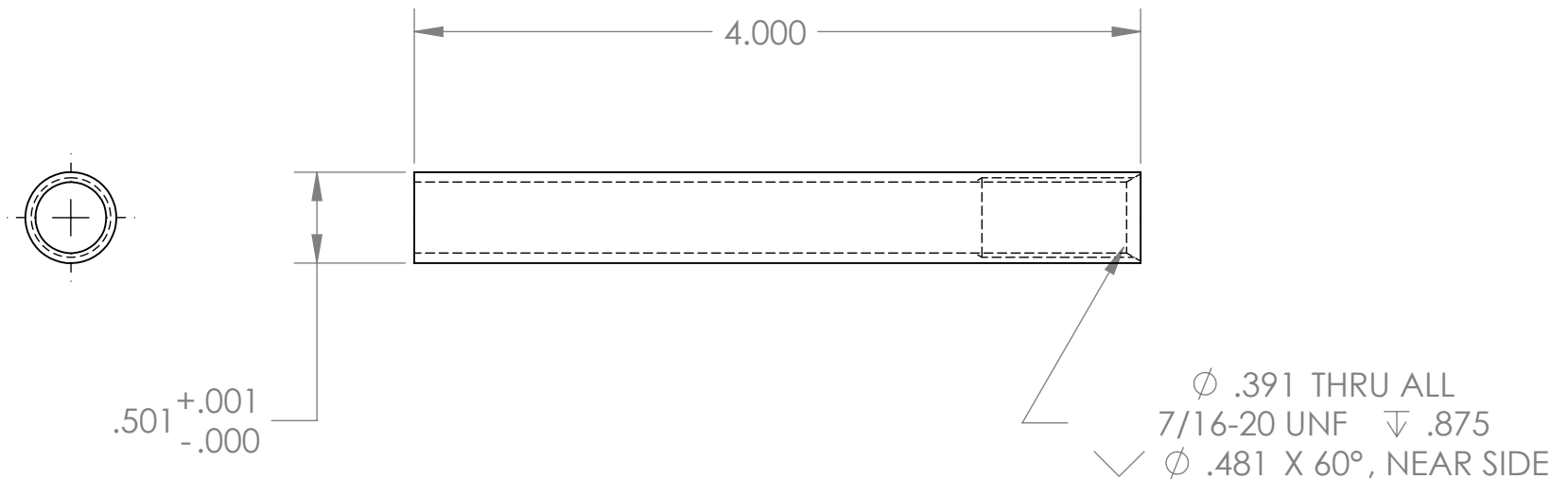
SCALE: 1:1

WEIGHT:

SHEET 4 OF 7

OPERATIONS LIST

1	Saw	Cut stock to 4-1/8 inch length
2	Engine Lathe	Face end/Countersink
3	Engine Lathe	Drill
4	Engine Lathe	Tap (Use tap guide, tailstock)
5	Engine Lathe	Turn Diameter



UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES

TOLERANCES:

FRACTIONAL $\pm 1/32"$

ANGULAR: MACH $\pm .5$ BEND $\pm$

TWO PLACE DECIMAL $\pm .01$

THREE PLACE DECIMAL $\pm .005$

INTERPRET DRAWING PER: ASME Y14.5-1994

MATERIAL Black Water Pipe

FINISH

COMMENTS:

Tube

DRAWN

EJJ

DATE

2/13/2013

CHECKED

D&G

DATE

2/13/2013

REMOVE ALL SHARP EDGES AND BURRS



SMITH COLLEGE

SIZE

A

Part

100

PART REV

DOC REV

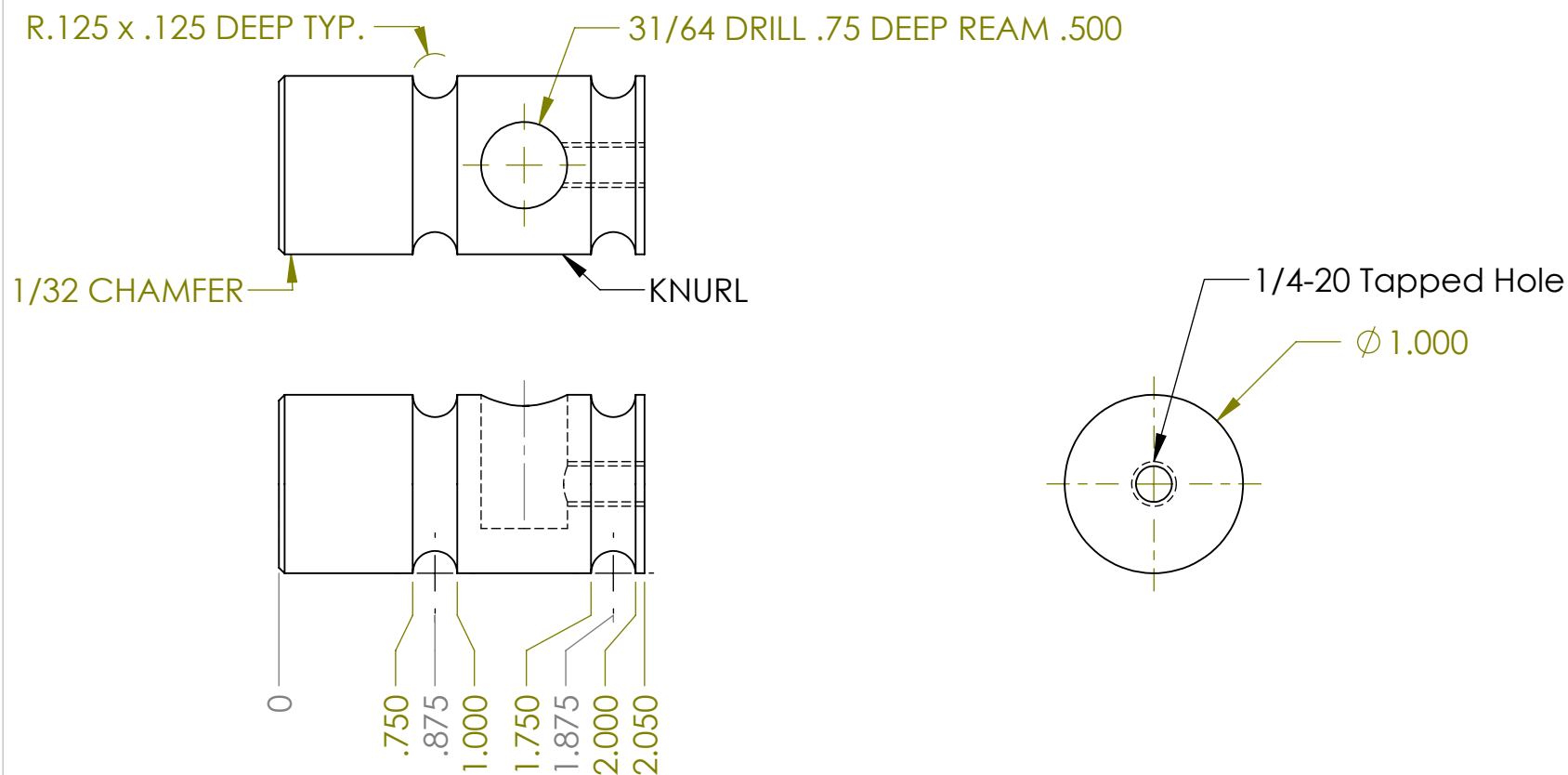
7

SCALE: 1:1

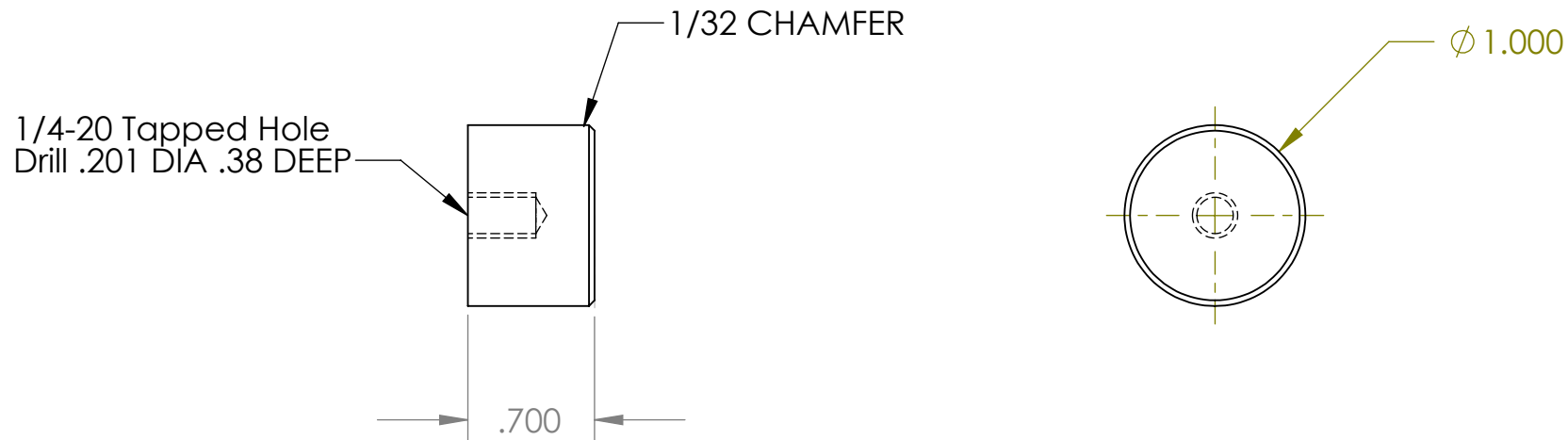
WEIGHT:

SHEET 5 OF 7

OPERATIONS LIST		
1	Saw	Cutoff long enough to make two heads
2	Engine Lathe	Face/ Chamfer Hammer face
3	Engine Lathe	Turn Grooves - regrip for each groove
4	Engine Lathe	Knurl
	Saw	Cutoff hammer head 2-1/8
2	Engine Lathe	Face/Turn to 2.05 length
6	Bridgeport	Drill/Ream (use fixture block to locate centers)
4	Engine Lathe	Centerdrill/Drill/Tap 1/4-20



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/32" ANGULAR: MACH ± .5 BEND ± TWO PLACE DECIMAL ± .01 THREE PLACE DECIMAL ± .005 INTERPRET DRAWING PER: ASME Y14.5-1994	MATERIAL Plain Carbon Steel		Hammer Head					
	FINISH							
	COMMENTS:		DRAWN EJJ	DATE 2/13/2013	SIZE Part		PART REV	DOC REV
			CHECKED D&G	DATE 2/13/2013	A 100			7
			REMOVE ALL SHARP EDGES AND BURRS			SCALE: 1:1		WEIGHT:
5	4	3	2	Hammer_plastic_face_02 1				



UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL $\pm 1/32"$
ANGULAR: MACH $\pm .5$ BEND $\pm$
TWO PLACE DECIMAL $\pm .01$
THREE PLACE DECIMAL $\pm .005$
INTERPRET DRAWING PER: ASME Y14.5-1994

MATERIAL ABS Plastic

FINISH

COMMENTS:

Plastic Face

DRAWN

EJJ

DATE

2/13/2013

CHECKED

D&G

DATE

2/13/2013

REMOVE ALL SHARP EDGES AND BURRS



SMITH COLLEGE

SIZE

A

Part

100

PART REV

DOC REV

7

SCALE: 1:1

WEIGHT:

SHEET 7 OF 7