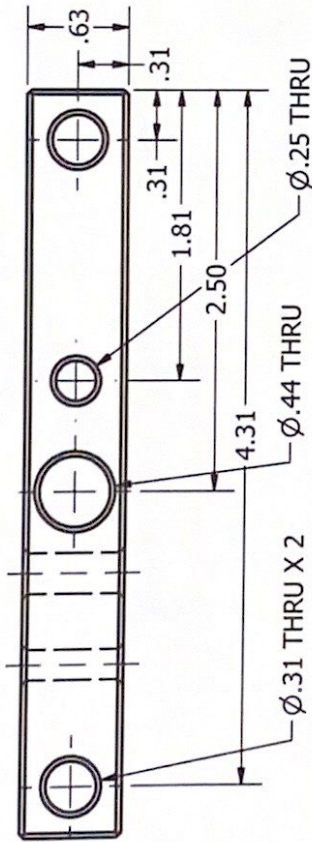
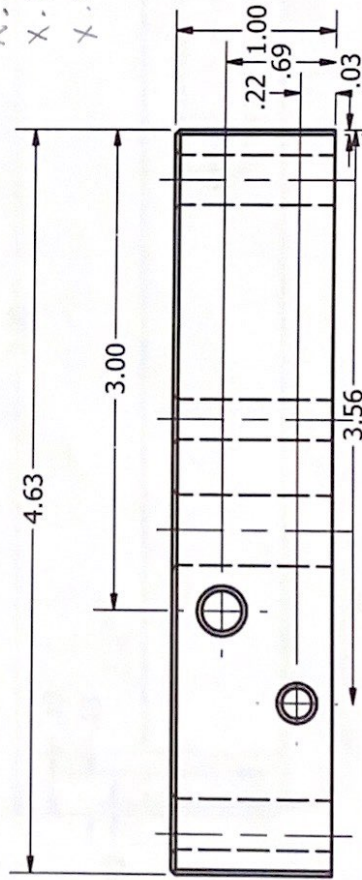
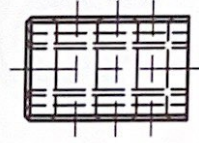




All parts have following Tolerances

$$\begin{aligned} X.X &= +/-.020 \\ X.XX &= +/-.010 \\ X.XXX &= +/-.005 \end{aligned}$$


PROJECT LEAD THE WAY

PLTW



PASSAIC COUNTY TECHNICAL INSTITUTE

45 Reinhardt Road, Wayne, NJ 07470 (973) 790-6000

UPPER DIE CENTER SUPPORT

DRAWING NO.:

IED-KJR-81DW-01

SIZE

KEYUR RANA

DATE: 4-24-17

APPROVED BY:
M. MILLER

REVISION:

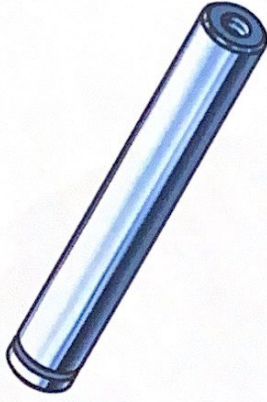
BUTTON MAKER

CHECKED BY:

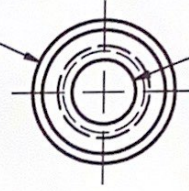
DATE: 4-24-17

M. MILLER

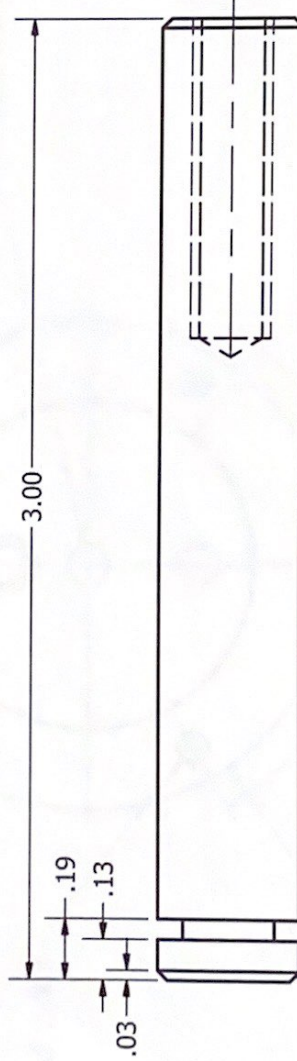
SHEET NO:



Ø.44



1/4-20 UNC - 2B



.03 X 45° Chamfer



PASSAIC COUNTY TECHNICAL INSTITUTE
45 Reinhardt Road, Wayne, NJ 07470 (973) 790-6000

DRAWING TITLE:

UPPER DIE CENTER PIN

DRAWING NO.

IED-KJR-81DW-02

SIZE

A

DRAWN BY:

KEYUR RANA

DATE:

4-24-17

APPROVED BY:

M. MILLER

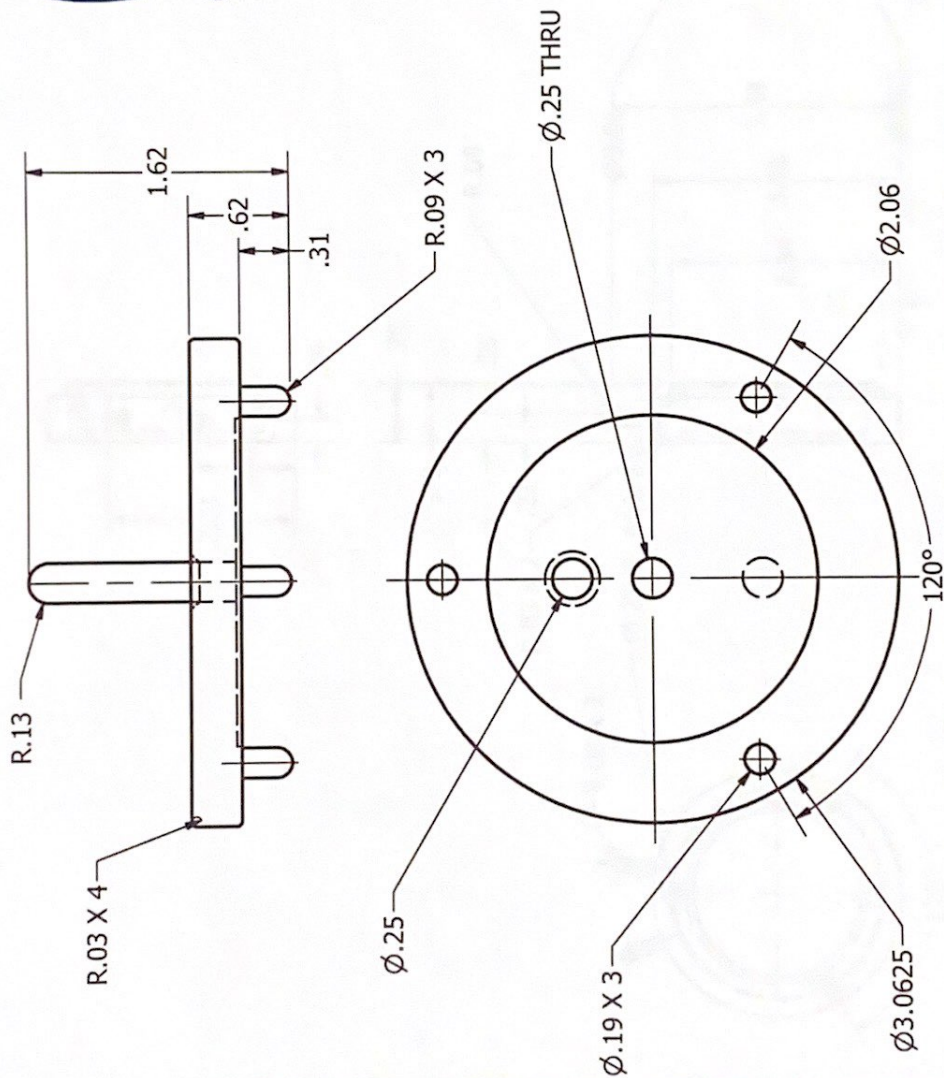
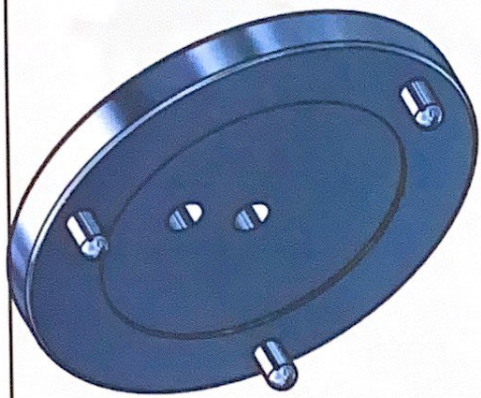
REVISION:

SHEET NO.



PROJECT:

BUTTON MAKER



PASSAIC COUNTY TECHNICAL INSTITUTE

45 Reinhardt Road, Wayne, NJ 07470 (973) 790-6000



DRAWING NO: IED-KJR-81DW-03

UPPER DIE PRESSURE RING

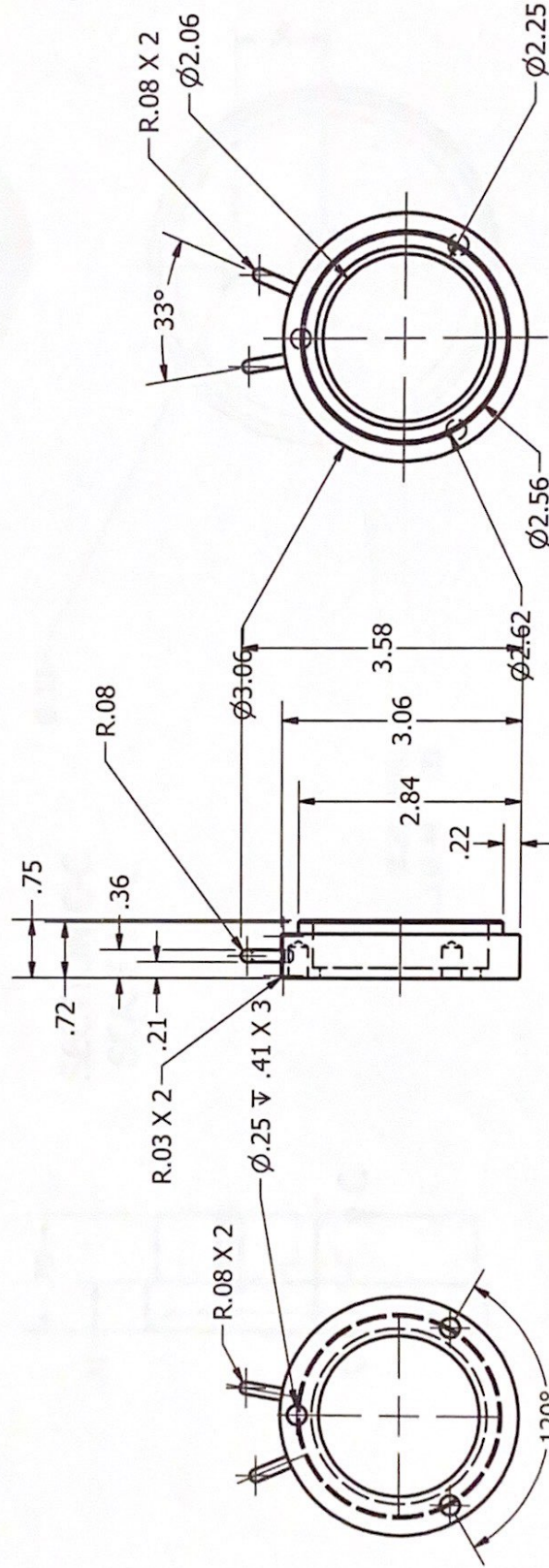
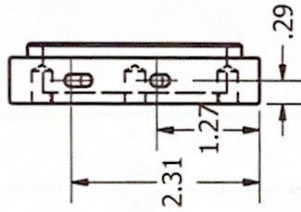
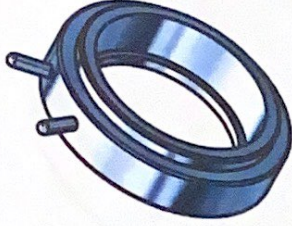
APPROVED BY: M. MILLER
REVISION:

DATE: 4-24-17
SCALE:

DRAWN BY: KEYUR RANA
CHECKED BY:

SIZE: A

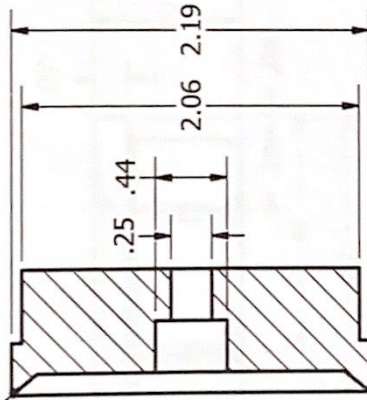
PROJECT: BUTTON MAKER



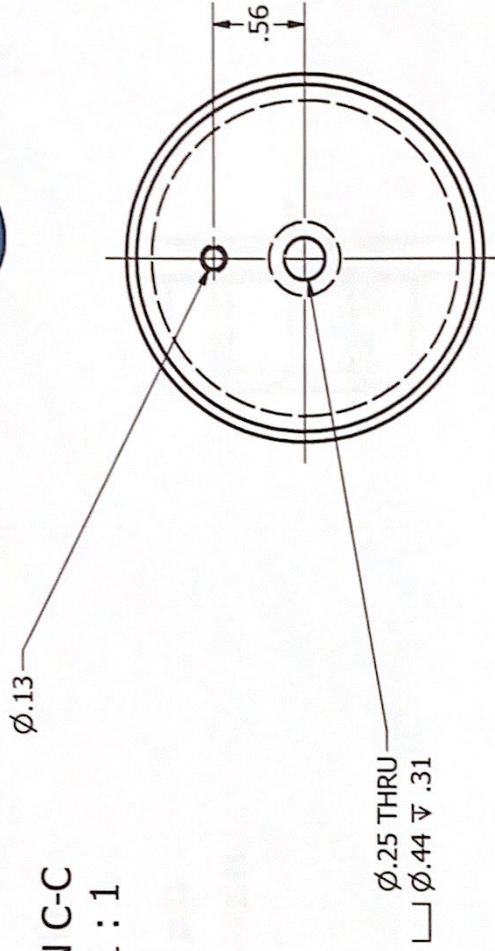
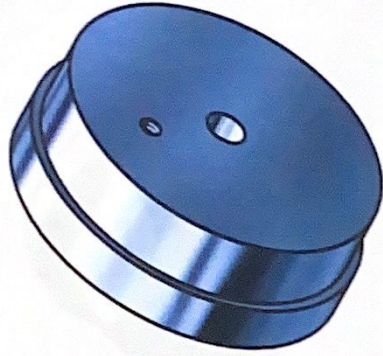
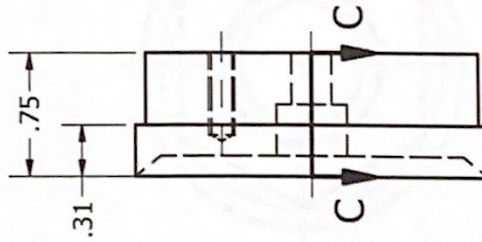
PASSAIC COUNTY TECHNICAL INSTITUTE
45 Reinhardt Road, Wayne, NJ 07470 (973) 790-6000

		PROJECT: BUTTON MAKER	
DRAWING TITLE: UPPER DIE OUTER RING		DRAWING NO: IED-KJR-81DW-04	
SIZE: A	DRAWN BY: KEYUR RANA	DATE: 4-24-17	APPROVED BY: M. MILLER
	CHECKED BY:	DATE:	SCALE:
			REVISION:
			SHEET NO:

.16 X 39° Chamfer



SECTION C-C
SCALE 1 : 1



PROJECT: BUTTON MAKER



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DRAWING TITLE

UPPER DIE CENTER

DRAWING NO.

IED-KJR-81DW-05

SIZE

A

DRAWN BY: KEYUR RANA

DATE: 4-24-17

APPROVED BY:

M. MILLER

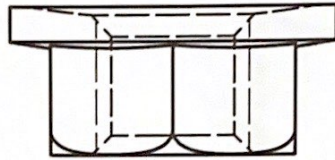
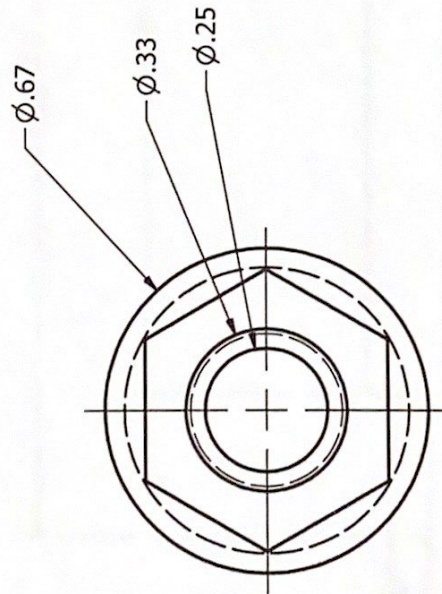
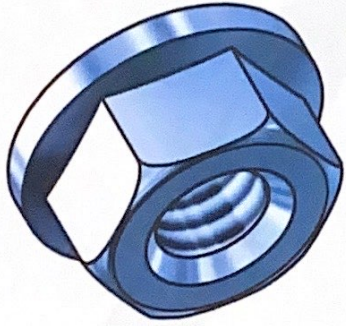
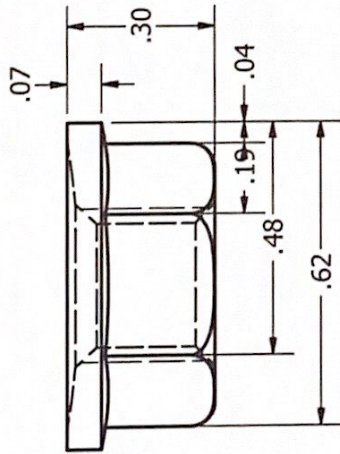
REVISION:

CHECKED BY:

DATE:

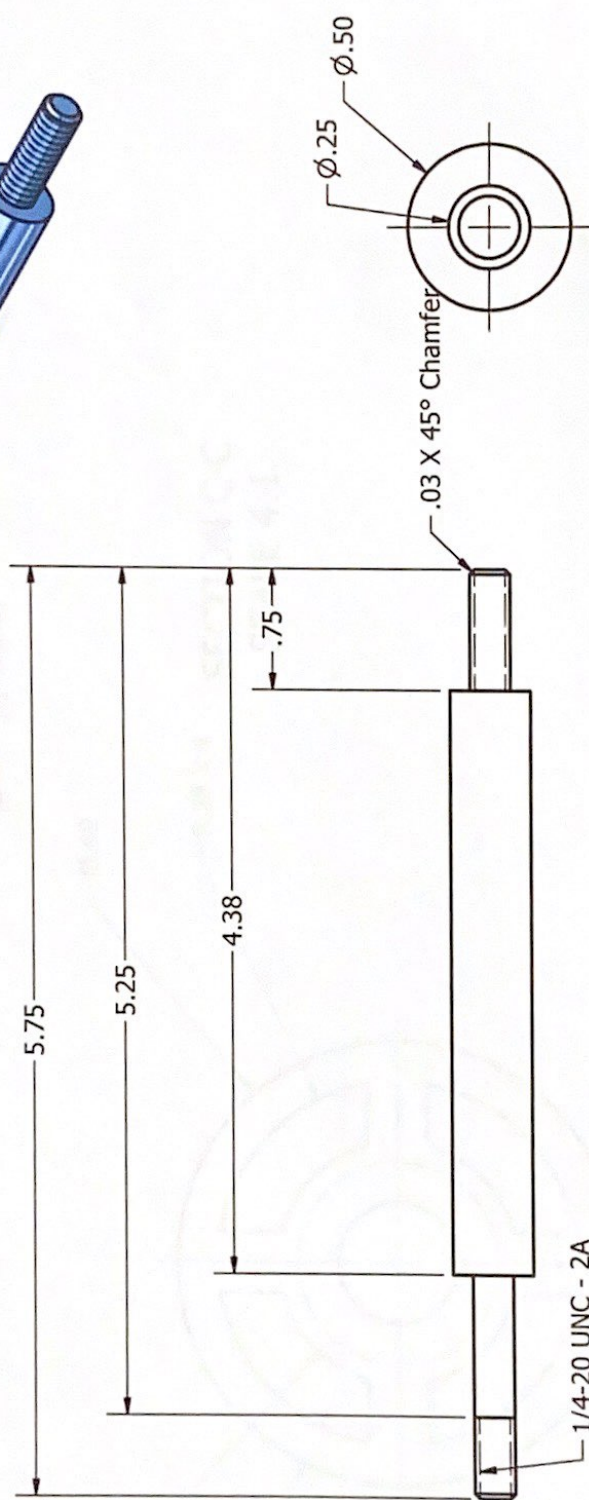
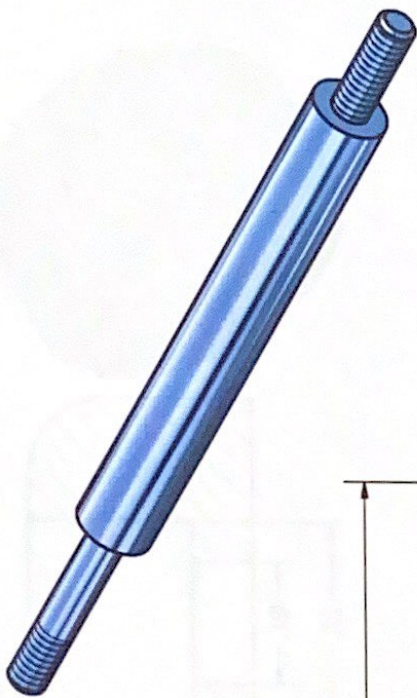
SCALE:

SHEET NO.



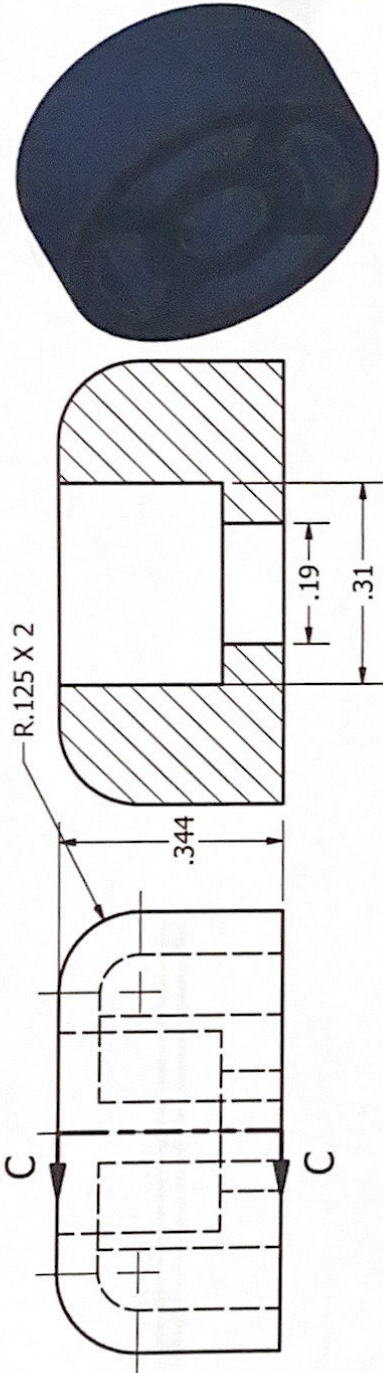
PASSAIC COUNTY TECHNICAL INSTITUTE
45 Reinhardt Road, Wayne, NJ 07470 (973) 790-6000

PROJECT:		DRAWING TITLE: 5/16-18 HEX NUT		DRAWING NO: IED-KJR-81PT-05	
SIZE: A		DRAWN BY: KEYUR RANA		DATE: 4-21-17	
CHECKED BY:		APPROVED BY: M. MILLER		REVISION:	
		SCALE:		SHEET NO:	

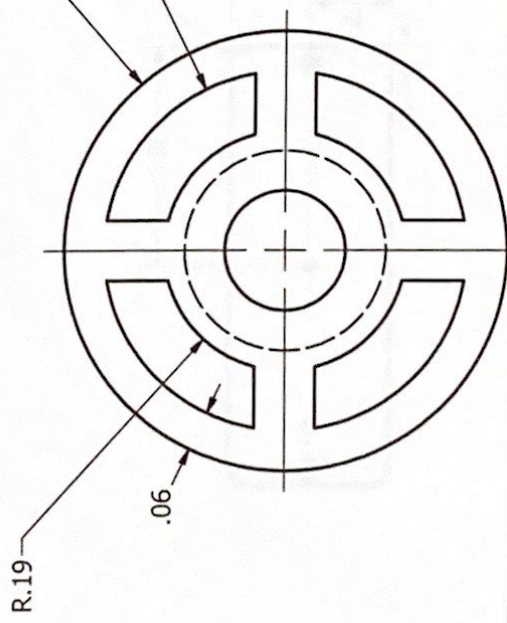


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DRAWING TITLE: VERTICAL SUPPORT		DRAWING NO: IED-KJR-81DW-06	
SIZE: A	DRAWN BY: KEYUR RANA	DATE: 4-21-17	APPROVED BY: M. MILLER
PROJECT: BUTTON MAKER		CHECKED BY:	REVISION:
		SCALE:	SHEET NO:



SECTION C-C
SCALE 4:1



PROJECT
BUTTON MAKER



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DRAWING TITLE
RUBBER FOOT

DRAWING NO.
IED-KJR-81PT-07

SIZE
A

DRAWN BY
KEYUR RANA

DATE
4-21-17

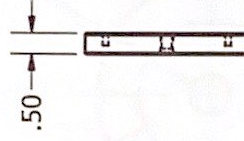
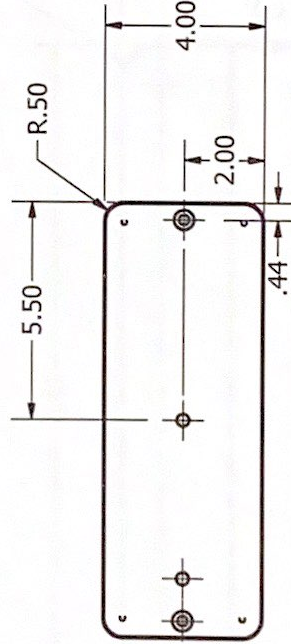
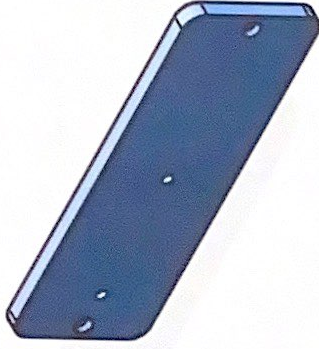
APPROVED BY:
M. MILLER

REVISION:

DATE

SCALE

SHEET NO.



PASSAIC COUNTY TECHNICAL INSTITUTE
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DRAWING TITLE:

BASE PLATE

DRAWING NO.

IED-KJR-81PT-08

SIZE

A

DRAWN BY:

KEYUR RANA

DATE:

4-21-17

APPROVED BY:

M. MILLER

REVISION:

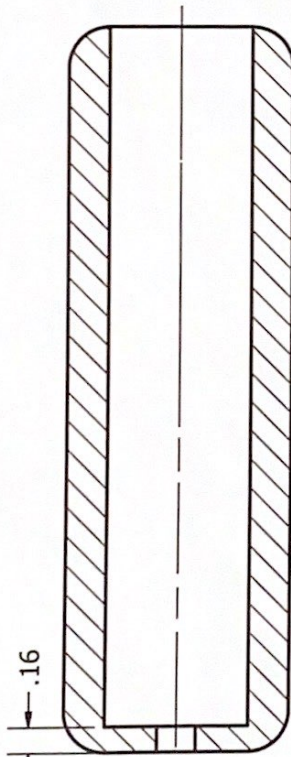
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SHEET NO.

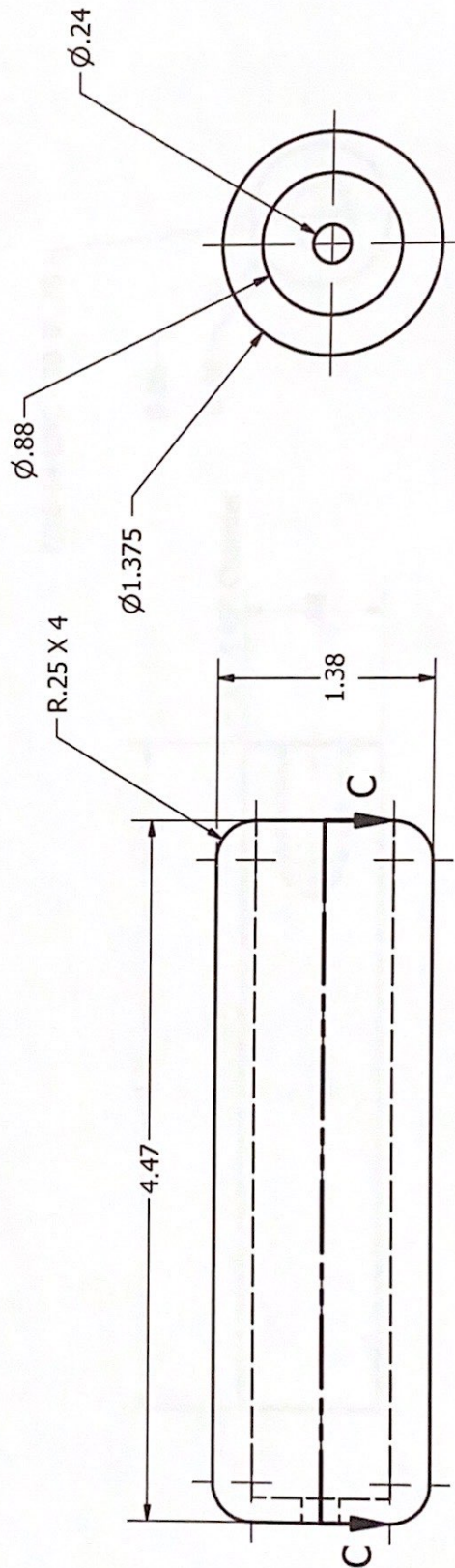
PROJECT:

BUTTON MAKER

.16



SECTION C-C
SCALE 1



PASSAIC COUNTY TECHNICAL INSTITUTE
45 Reinhardt Road, Wayne, NJ 07470 (973) 790-6000

DRAWING NO.

RUBBER HANDLE SLEEVE

IED-KJR-81PT-079

SIZE
A

DRAWN BY
KEYUR RANA

DATE
4-24-17

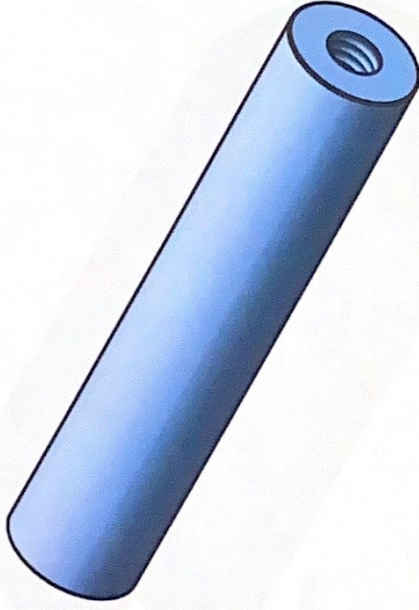
REVISION

APPROVED BY
M. MILLER

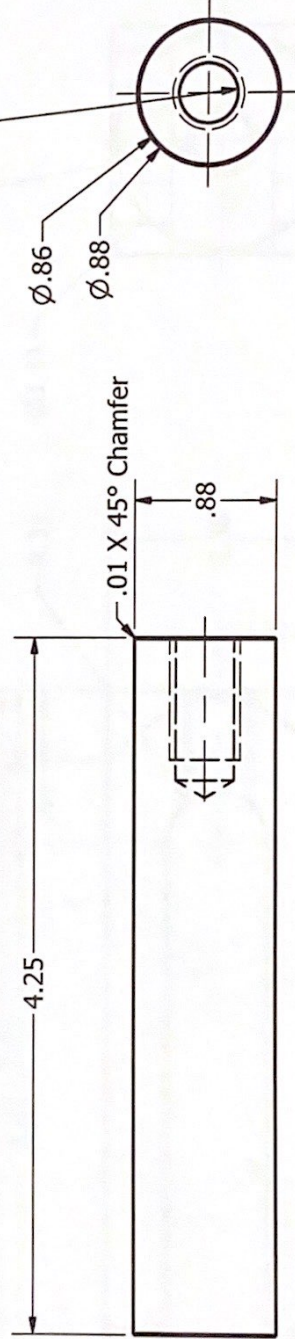
DATE

SHEET NO.

BUTTON MAKER

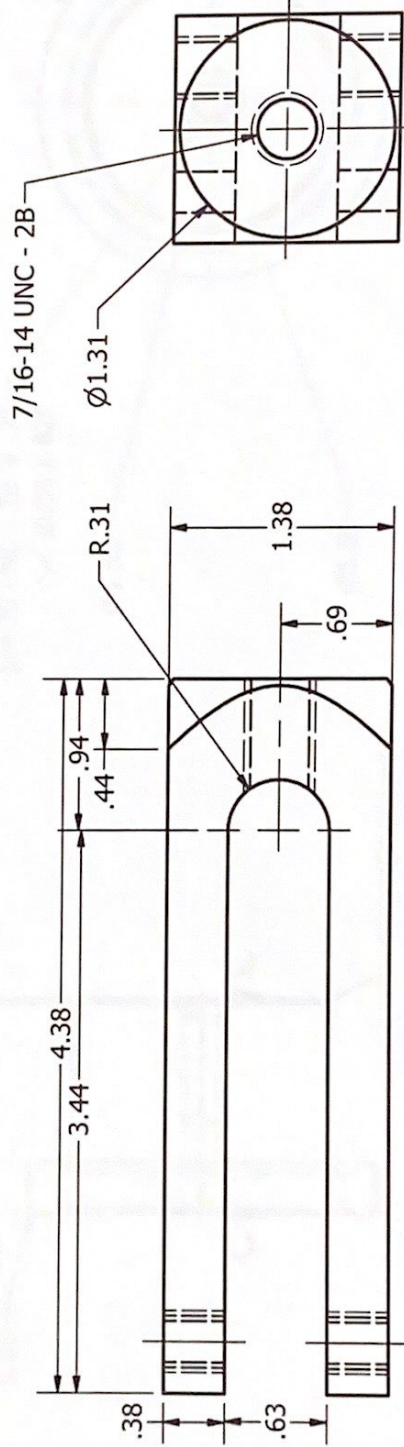
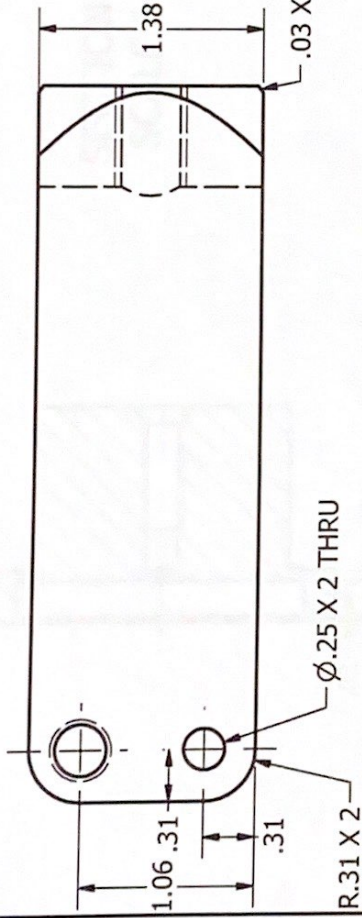
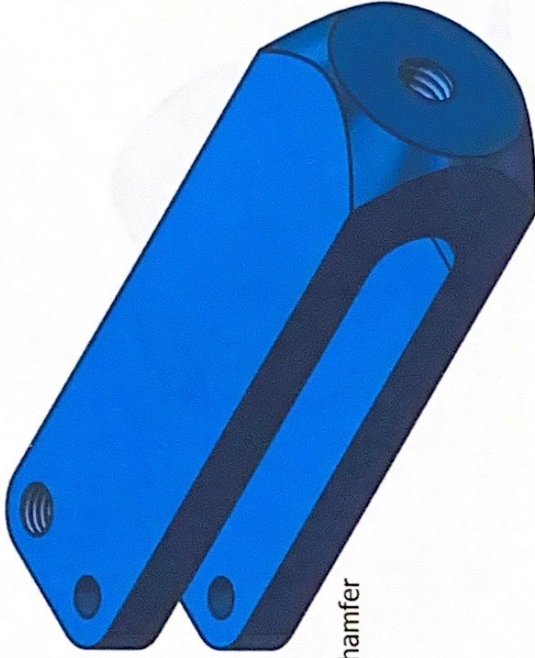


7/16-14 UNC - 2B ∇ .75



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45 Reinhardt Road, Wayne, NJ 07470 (973) 790-6000

DRAWING TITLE: METAL HANDLE INSERT		DRAWING NO: IED-KJR-81PT-10	
SIZE: A	DRAWN BY: KEYUR RANA	DATE: 4-24-17	APPROVED BY: M. MILLER
PROJECT: BUTTON MAKER	CHECKED BY:	SCALE:	REVISION:
			SHEET NO:



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DRAWING TITLE:

HANDLE BODY

DRAWING NO:

IED-KJR-81PT-11

SIZE

A

DRAWN BY:

KEYUR RANA

CHECKED BY:

DATE: 4-24-17

DATE:

APPROVED BY:

M. MILLER

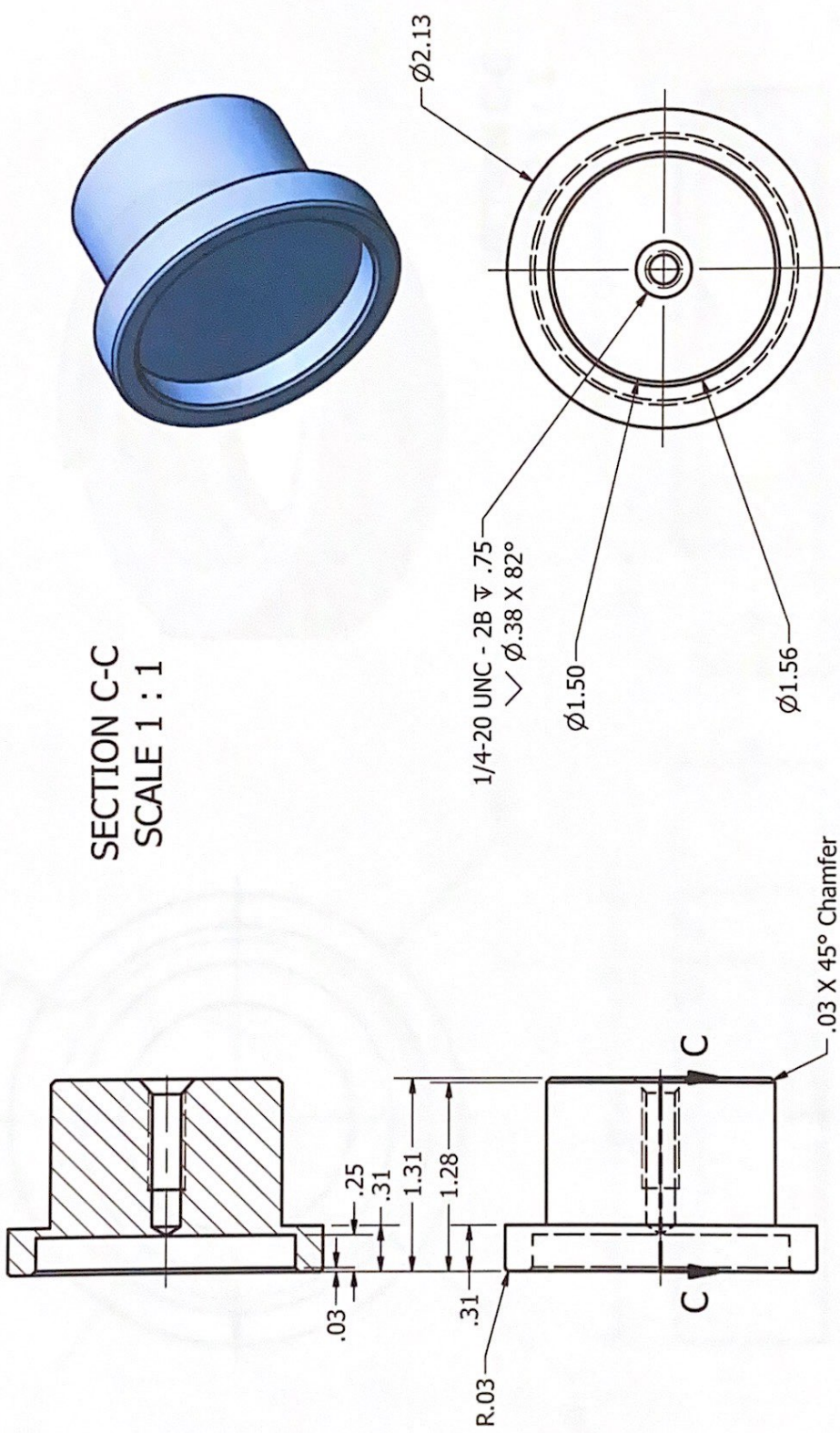
SCALE:

REVISION:

SHEET NO:

PROJECT:

BUTTON MAKER

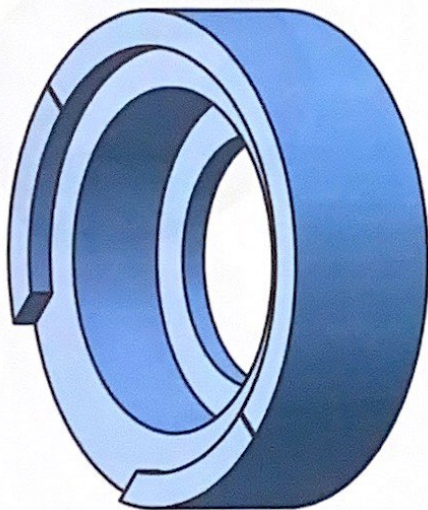


PROJECT: BUTTON MAKER

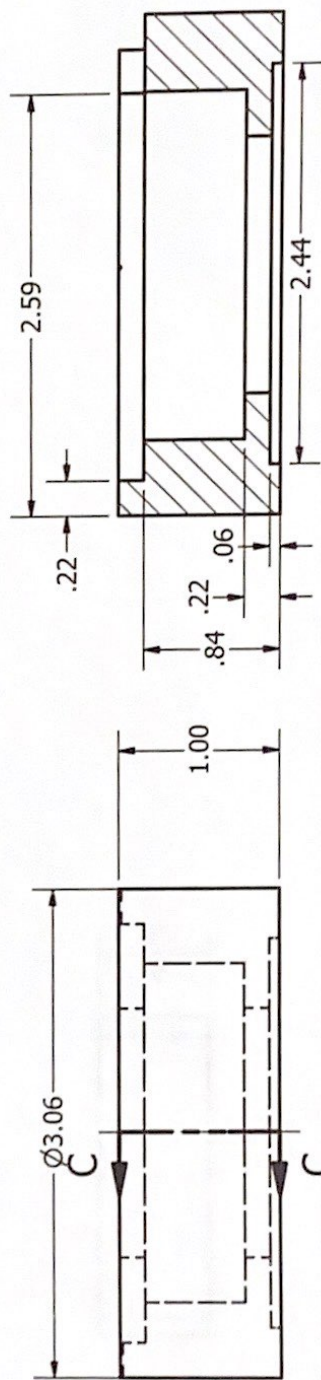


PASSAIC COUNTY TECHNICAL INSTITUTE
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DRAWING TITLE: LOWER DIE 2 CENTER		DRAWING NO: IED-KJR-81PT-12	
SIZE: A	DRAWN BY: KEYUR RANA	DATE: 4-24-17	APPROVED BY: M. MILLER
	CHECKED BY:	DATE:	REVISION:
			SHEET NO:



SECTION C-C
SCALE 1 : 1



BUTTON MAKER



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DRAWING TITLE:

LOWER DIE 2 OUTER RING

SIZE

KEYUR RANA

A

CHECKED BY:

DRAWING NO.:

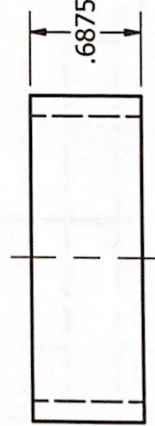
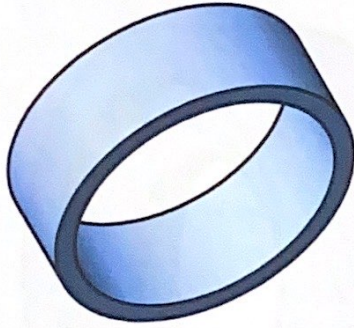
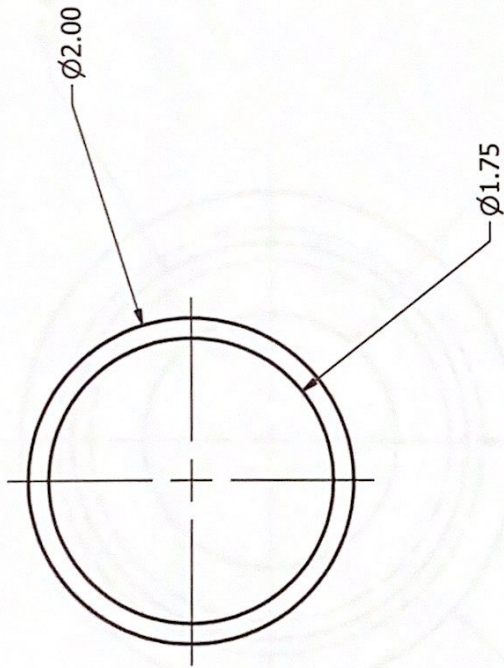
IED-KJR-81PT-13

APPROVED BY:

MILLER

SCALE

SHEET NO:



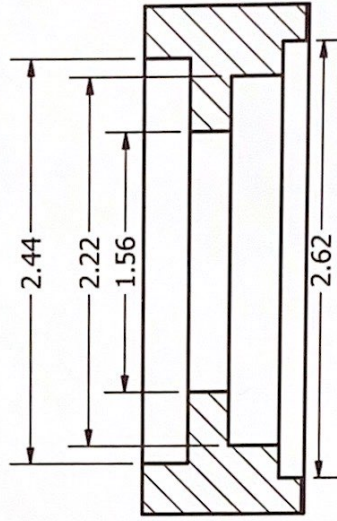
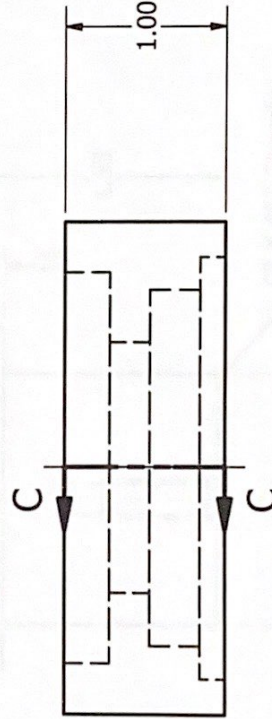
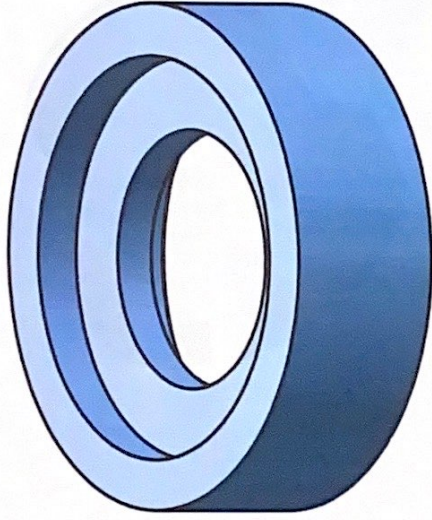
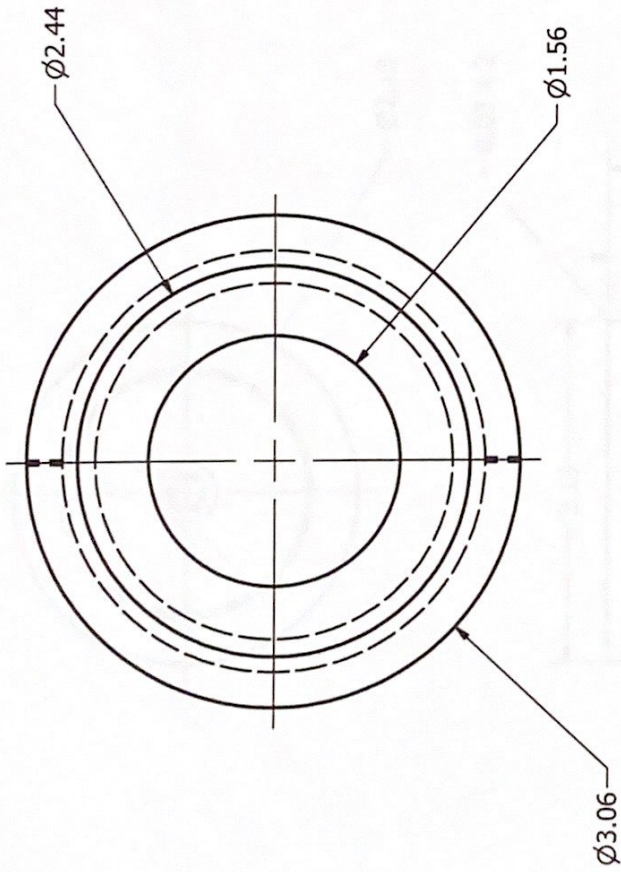
BUTTON MAKER



PASSAIC COUNTY TECHNICAL INSTITUTE

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DRAWING TITLE: LOWER DIE 2 SPACER		DRAWING NO: IED-KJR-81PT-14	
SIZE A	DRAWN BY: KEYUR RANA	DATE: 4-24-17	APPROVED BY: M. MILLER
CHECKED BY:		DATE:	REVISION:
			SHEET NO:



SECTION C-C
SCALE 1:1



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PROJECT: BUTTON MAKER

SIZE: A

DRAWING TITLE: LOWER DIE 1 OUTER RING

DRAWING NO. IED-KJR-81PT-15

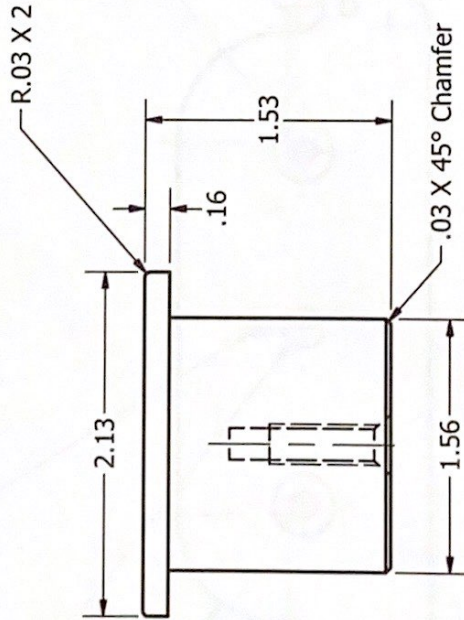
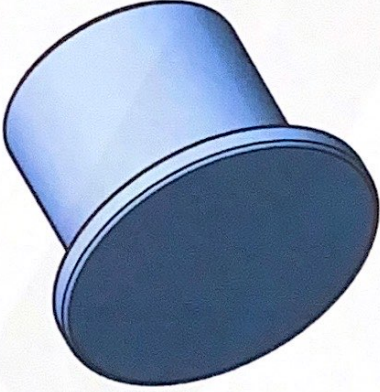
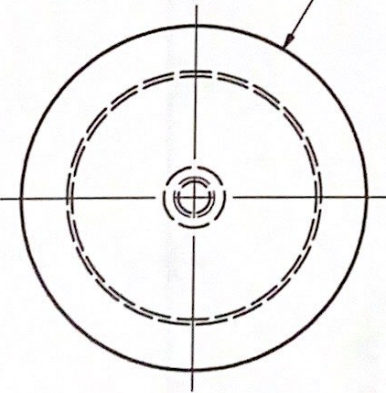
DRAWN BY: KEYUR RANA

CHECKED BY: M. MILLER

DATE: 4-24-17

REVISION:

SHEET NO.

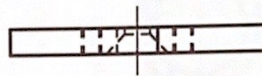
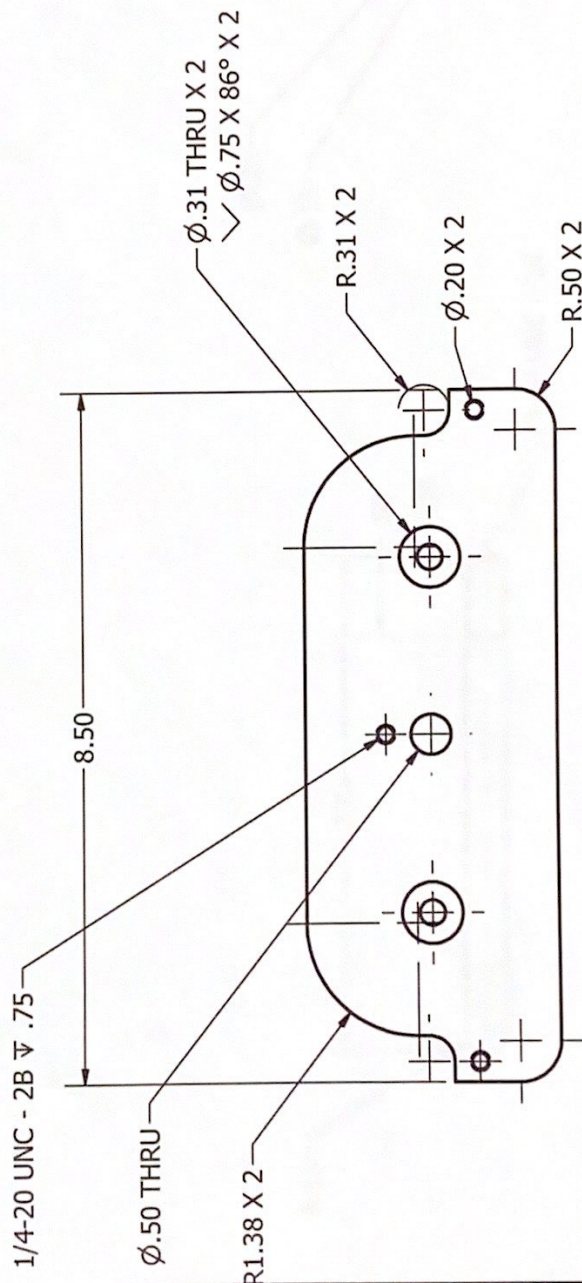
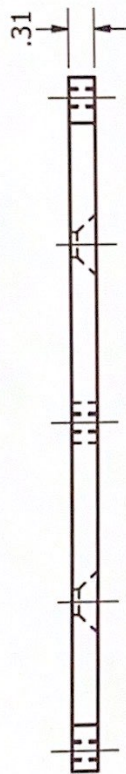


PROJECT: **BUTTON MAKER**



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45 Reinhardt Road, Wayne, NJ 07470 (973) 790-6000

DRAWING TITLE: LOWER DIE 1 CENTER		DRAWING NO: IED-KJR-81PT-16	
SIZE: A	DRAWN BY: KEYUR RANA	DATE: 4-24-17	APPROVED BY: M. MILLER
	CHECKED BY:	DATE:	REVISION:
			SHEET NO:



PROJECT: BUTTON MAKER



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DRAWING TITLE: BOTTOM DIE PLATE

DRAWING NO: IED-KJR-81PT-17

SIZE: A

DRAWN BY: KEYUR RANA

DATE: 4-24-17

APPROVED BY: M. MILLER

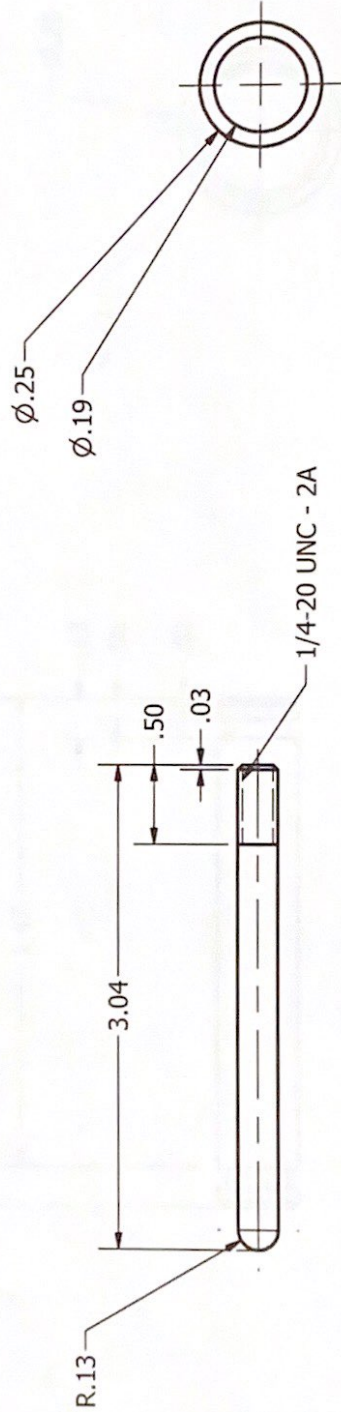
REVISION:

CHECKED BY:

DATE:

SCALE:

SHEET NO:



PROJECT: BUTTON MAKER



PASSAIC COUNTY TECHNICAL INSTITUTE
45 Reinhardt Road, Wayne, NJ 07470 (973) 790-6000

DRAWING TITLE:

SEQUENCE LEVER ARM

DRAWING NO:

IED-KJR-81PT-18

SIZE

A

DRAWN BY:

KEYUR RANA

DATE

4-24-17

APPROVED BY:

M. MILLER

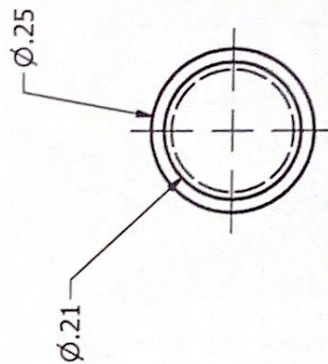
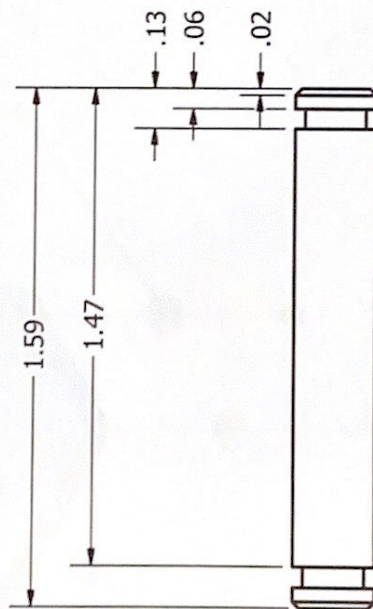
REVISION:

CHECKED BY:

DATE

SCALE

SHEET NO:

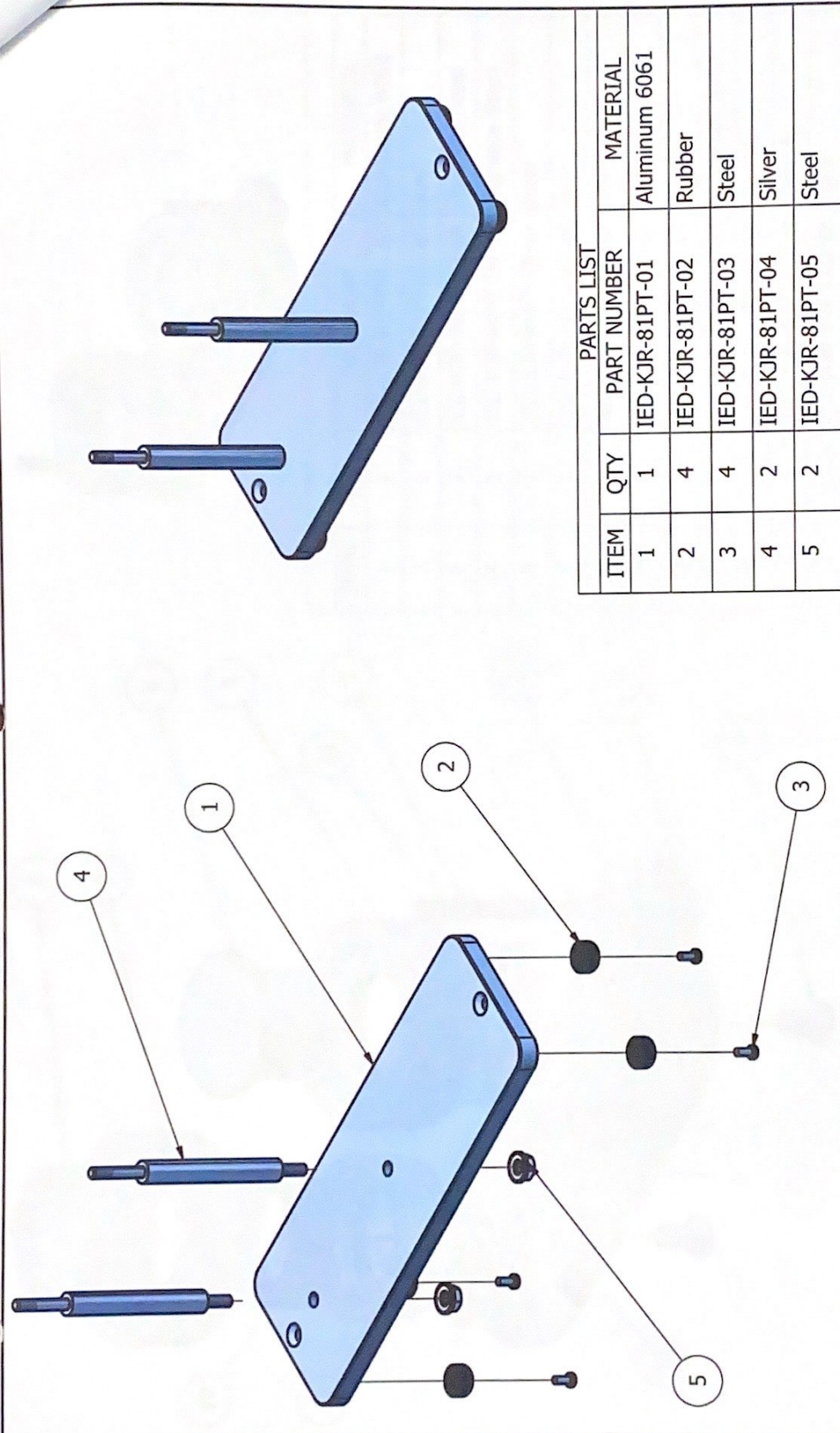


PROJECT: BUTTON MAKER

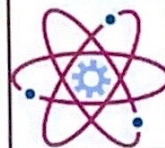


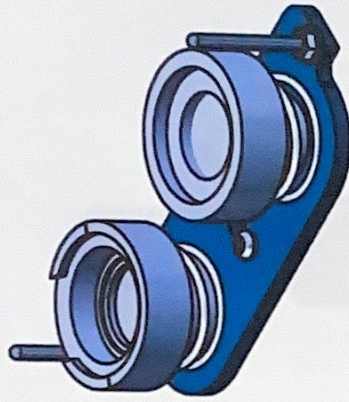
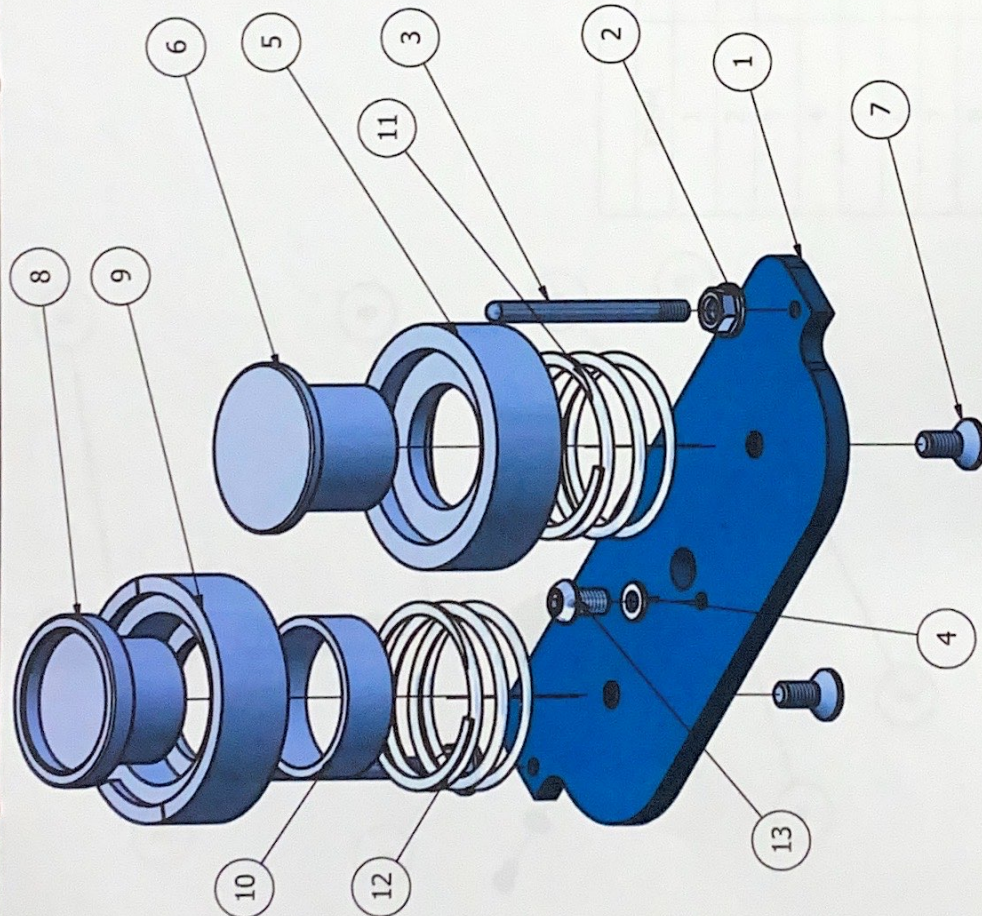
PASSAIC COUNTY TECHNICAL INSTITUTE
45 Reinhardt Road, Wayne, NJ 07470 (973) 790-6000

DRAWING TITLE: HANDLE PIVOT PIN		DRAWING NO: IED-KJR-81PT-19	
SIZE: A	DRAWN BY: KEYUR RANA	DATE: 4-24-17	APPROVED BY: M. MILLER
CHECKED BY:		DATE:	REVISION:
			SHEET NO:



PARTS LIST		
ITEM	QTY	PART NUMBER
1	1	IED-KJR-81PT-01
2	4	IED-KJR-81PT-02
3	4	IED-KJR-81PT-03
4	2	IED-KJR-81PT-04
5	2	IED-KJR-81PT-05
		MATERIAL
		Aluminum 6061
		Rubber
		Steel
		Silver
		Steel

 PROJECT LEAD THE WAY		 PASSAIC COUNTY TECHNICAL INSTITUTE 45 Reinhardt Road, Wayne, NJ 07470 (973) 790-6000	
PROJECT: BUTTON MAKER		DRAWING TITLE: BASE SUB ASSEMBLY	
SIZE: A		DRAWING NO.: IED-KJR-81PN-01	
DRAWN BY: KEYUR RANA		APPROVED BY: M. MILLER	
CHECKED BY:		REVISION:	
DATE: 5-1-17		SHEET NO.:	



PARTS LIST			
ITEM	QTY	FILE NAME	MATERIAL
1	1	IED-KJR-81PT-01.ipt	Aluminum 6061
2	2	IED-KJR-81PT-02.ipt	Steel
3	2	IED-KJR-81PT-03.ipt	Stainless Steel
4	1	IED-KJR-81PT-04.ipt	Stainless Steel
5	1	IED-KJR-81PT-06.ipt	Steel
6	1	IED-KJR-81PT-07.ipt	Steel
7	2	IED-KJR-81PT-08.ipt	Generic
8	1	IED-KJR-81PT-09.ipt	Steel
9	1	IED-KJR-81PT-10.ipt	Steel
10	1	IED-KJR-81PT-11.ipt	Aluminum 6061
11	1	IED-KJR-81PT-12.ipt	Generic
12	1	IED-KJR-81PT-13.ipt	Generic
13	1	IED-KJR-81PT-05.ipt	Steel



PASSAIC COUNTY TECHNICAL INSTITUTE

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PROJECT: BUTTON MAKER

DRAWING TITLE:

LOWER DIE SUB ASSEMBLY

B

DRAWING NO.

IED-KJR-81PN-02

SIZE

A

DRAWN BY:

KEYUR RANA

DATE:

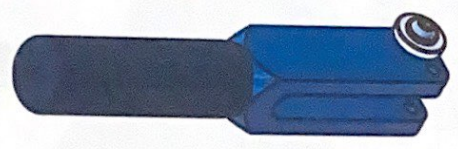
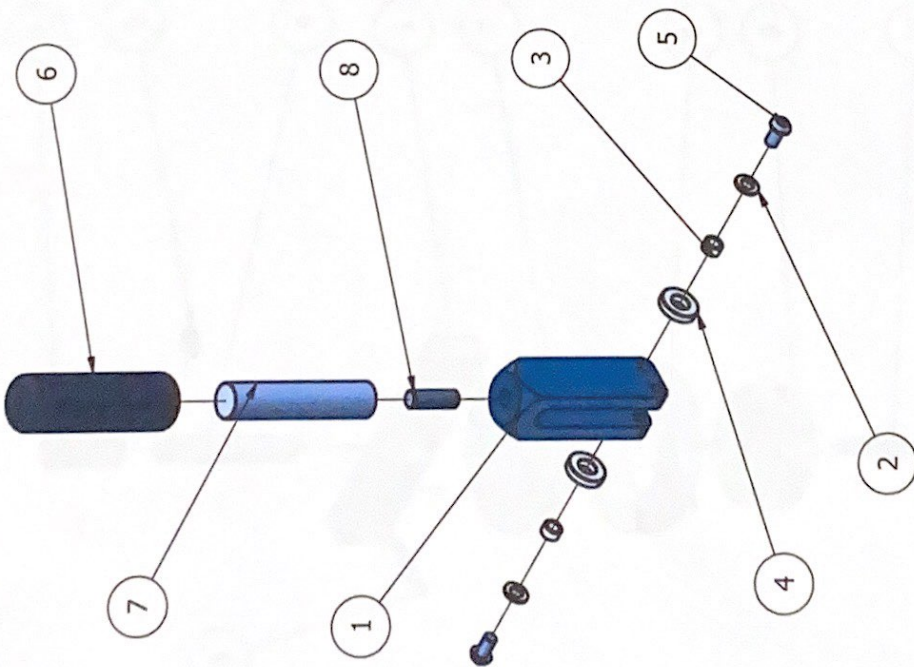
5-2-17

APPROVED BY:

M. MILLER

REVISION

SHEET NO.



PARTS LIST			
ITEM	QTY	FILE NAME	MATERIAL
1	1	IED-KJR-81PT-01.ipt	Aluminum-6061
2	2	IED-KJR-81PT-02.ipt	Steel
3	2	IED-KJR-81PT-03.ipt	Steel
4	2	IED-KJR-81PT-04.ipt	Steel
5	2	IED-KJR-81PT-05.ipt	Steel
6	1	IED-KJR-81PT-06.ipt	Rubber
7	1	IED-KJR-81PT-07.ipt	Aluminum 6061
8	1	IED-KJR-81PT-08.ipt	Generic



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PROJECT: **BUTTON MAKER**

DRAWING TITLE: **HANDLE SUB ASSEMBLY C**

DRAWING NO: **IED-KJR-81PN-03**

SIZE: **A**

DRAWN BY: **KEYUR RANA**

DATE: **5-1-17**

APPROVED BY: **M. MILLER**

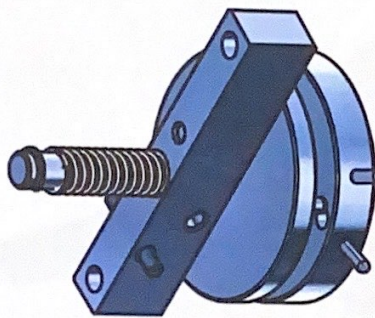
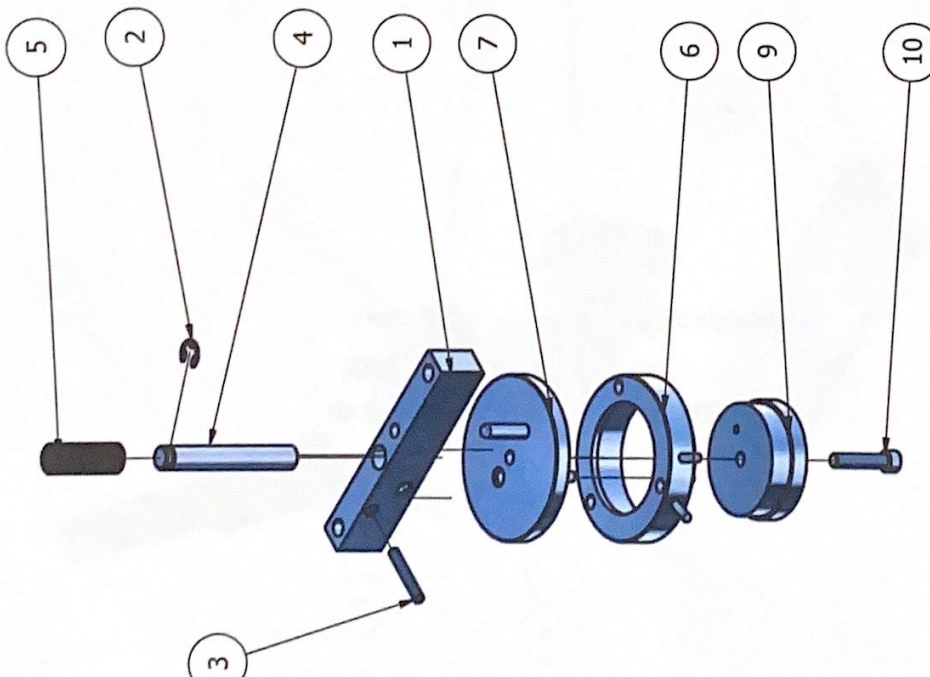
CHECKED BY:

DATE:

SCALE:

REVISION

SHEET NO:



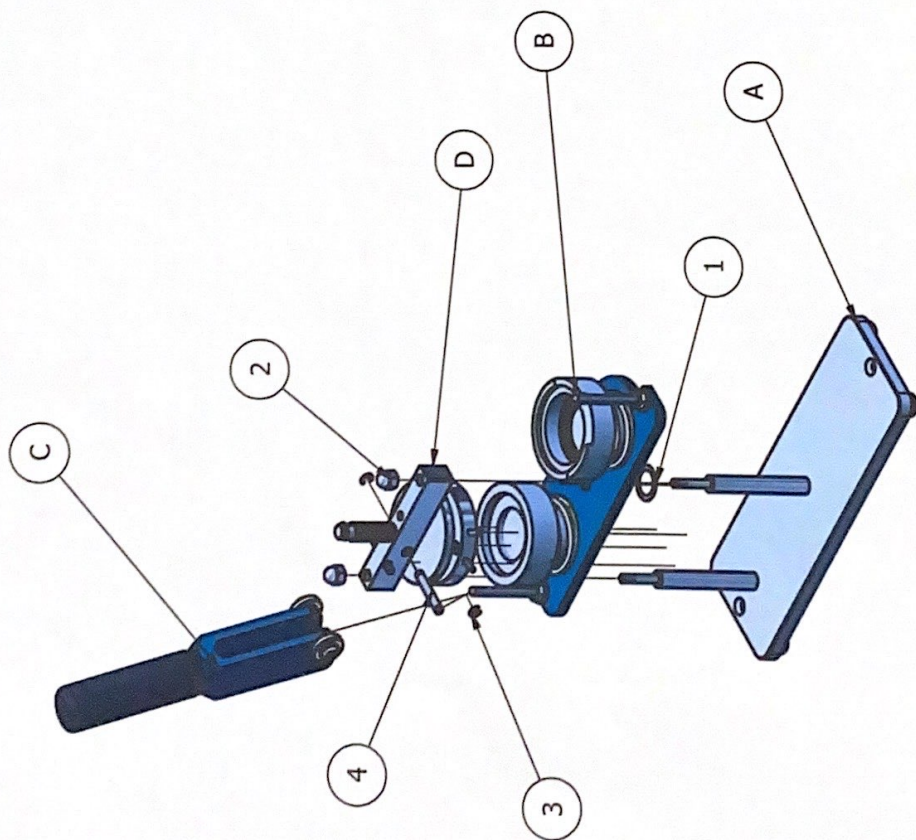
PARTS LIST			
ITEM	QTY	FILE NAME	MATERIAL
1	1	IED-KJR-81PT-01.ipt	Silver
2	1	IED-KJR-81PT-02.ipt	Steel
3	1	IED-KJR-81PT-03.ipt	Steel
4	1	IED-KJR-81PT-04.ipt	Silver
5	1	IED-KJR-81PT-05.ipt	Steel
6	1	IED-KJR-81PT-06.ipt	Silver
7	1	IED-KJR-81PT-07.ipt	Silver
8	1	IED-KJR-81PT-08.ipt	Steel
9	1	IED-KJR-81PT-09.ipt	Silver
10	1	IED-KJR-81PT-10.ipt	Steel



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DRAWING TITLE: UPPER DIE SUB ASSEMBLY D		DRAWING NO: IED-KJR-81PN-04	
SIZE: A	DRAWN BY: KEYUR RANA	DATE: 5-2-17	APPROVED BY: M. MILLER
PROJECT: BUTTON MAKER		REVISION:	SHEET NO:



PARTS LIST			
ITEM	QTY	FILE NAME	MATERIAL
1	1	BASE BEARING	Steel
2	2	1/4-20 CAP NUT	Steel
3	2	SMALL SNAP RING	Steel
4	1	HANDLE PIVOT PIIN	Steel
3	2	IED-KJR-81AS-01	VARIABLES
B	1	IED-KJR-81AS-02	VARIABLES
C	3	IED-KJR-81AS-03	VARIABLES
D	1	IED-KJR-81AS-04	VARIABLES

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BUTTON PRESS ASSEMBLY

IED-KJR-81PN-05

PROJECT LEAD THE WAY

PLTW

BUTTON MAKER

KEYUR RANA

DATE: 5-3-17

APPROVED BY:
M. MILLER

REVISION:

DATE: _____

SHEET NO.: