ITEM NO.	PART NAME	QTY.	MATERIAL
1	Base	1	Plain Carbon Steel
2	Sliding Jaw	1	Plain Carbon Steel
3	Jaw Plate	2	AISI 316 Stainless Steel Sheet (SS)
4	Collar	1	AISI 1020
5	Special Key	1	AISI 1020
6	Handle Rod	1	Alloy Steel
7	Handle Ball	2	AISI 1020
8	Set Screw	2	AISI 1015 Steel, Cold Drawn (SS)
9	Slide Key	2	AISI 1020
10	Vise Screw	1	AISI 316 Stainless Steel Sheet (SS)
11	1/4-20 FLAT HEAD MACHINE SCREW	4	N/A
12	#000 TAPER PIN X .76" LONG	2	N/A

KENNESAW STATE UNIVERSITY

DR. BY: VINH NGUYEN

MACHINE VISE ASSY

EDG 1212-03

SHEET NO.
1
OF 12

DATE: 3/21/2018   SCALE: N/A

1 3 2 5 4 10 7 6 6

SECTION A-A

KENNESAW
STATE UNIVERSITY®
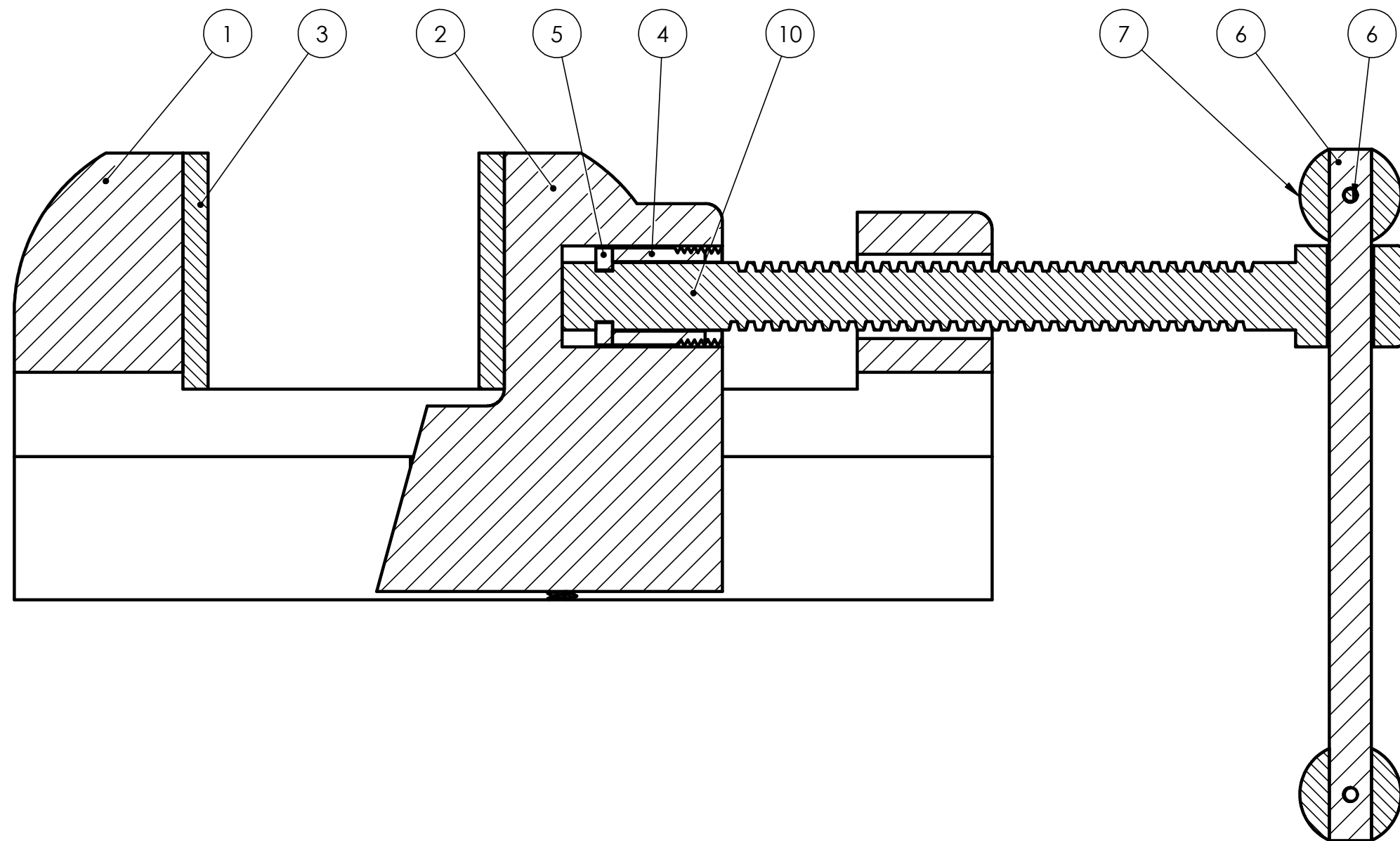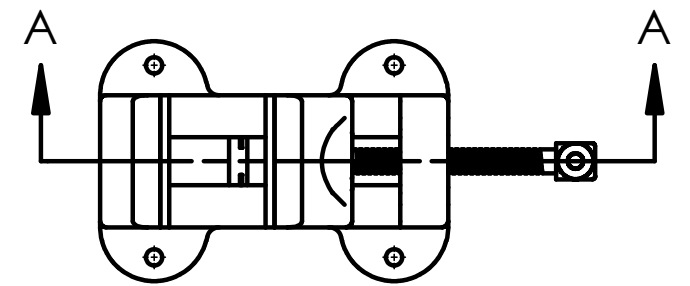
MACHINE VICE ASSY

DR. BY: VINH NGUYEN	EDG 1212-03	SHEET NO.
DATE: 3/21/2018	SCALE: N/A	2
		OF 12

NOTES:
1. ALL DIMENSIONS TO BE ±0.05 UNLESS OTHERWISE NOTED

R.25 TYP

4X Ø .34 THRU ALL

4

2.75

5

R1.13 TYP

1.25

5

R1.375

A

1.187

1.75

2.187

7.25

1.562

.312

R.687

Ø .5312
.625-8 ACME-2B

2.25

1.6875

1.062

.502
.500

1.004
1.000

2X Ø .201 ⤋ .750
1/4-20 UNC-2B ⤋ .625

SECTION A-A

1.5

.625

(.126)

1

1.75

(.502)
(.498)

R.25 TYP

.627
.625

1.254
1.250

KENNESAW STATE UNIVERSITY
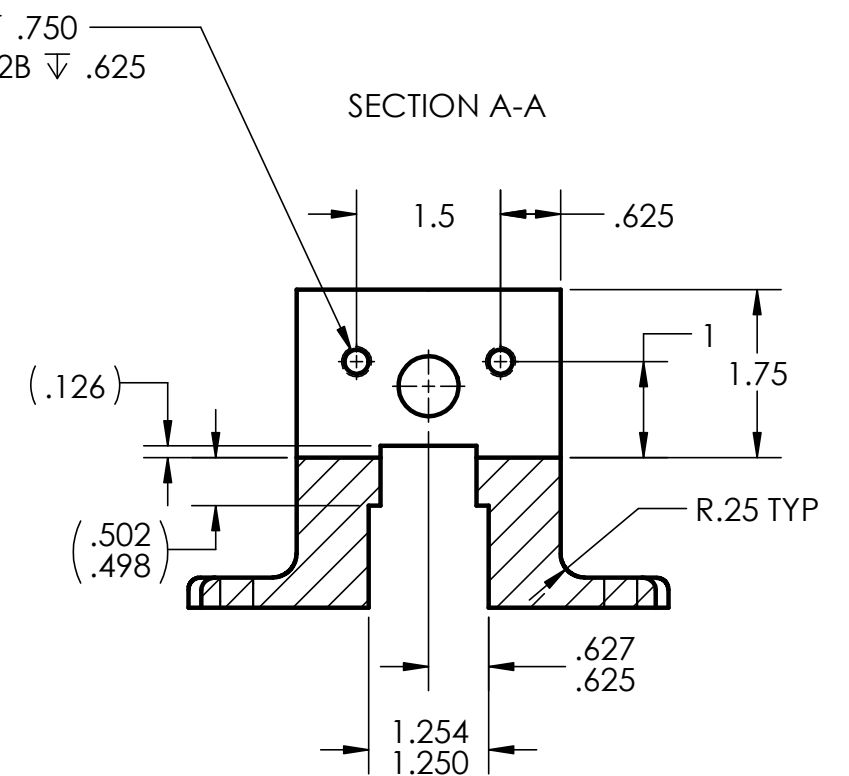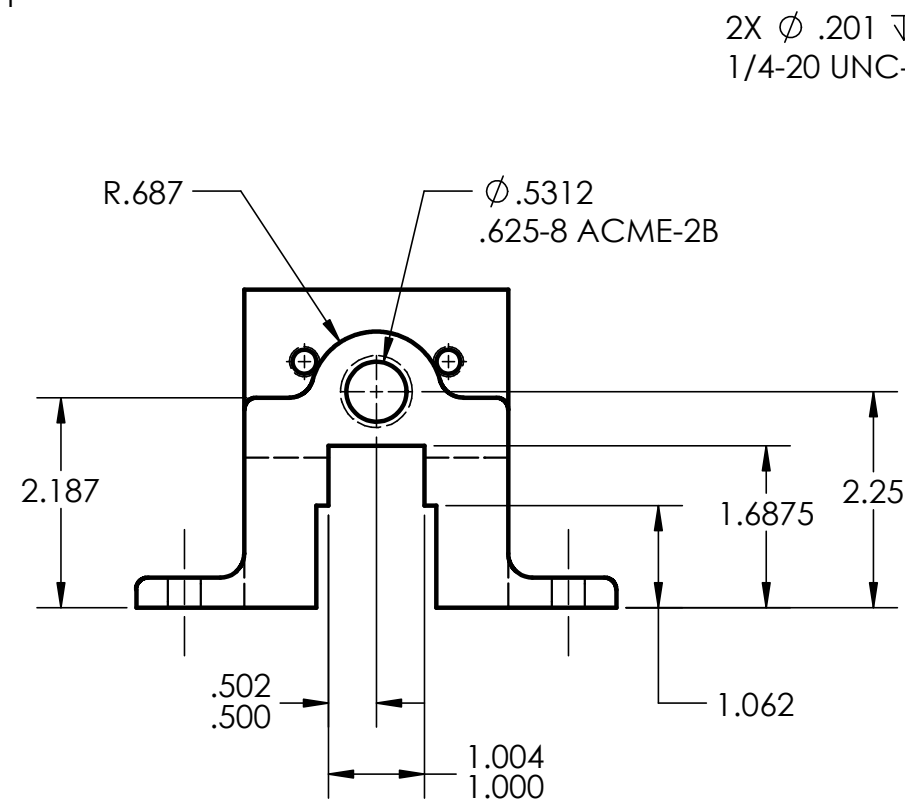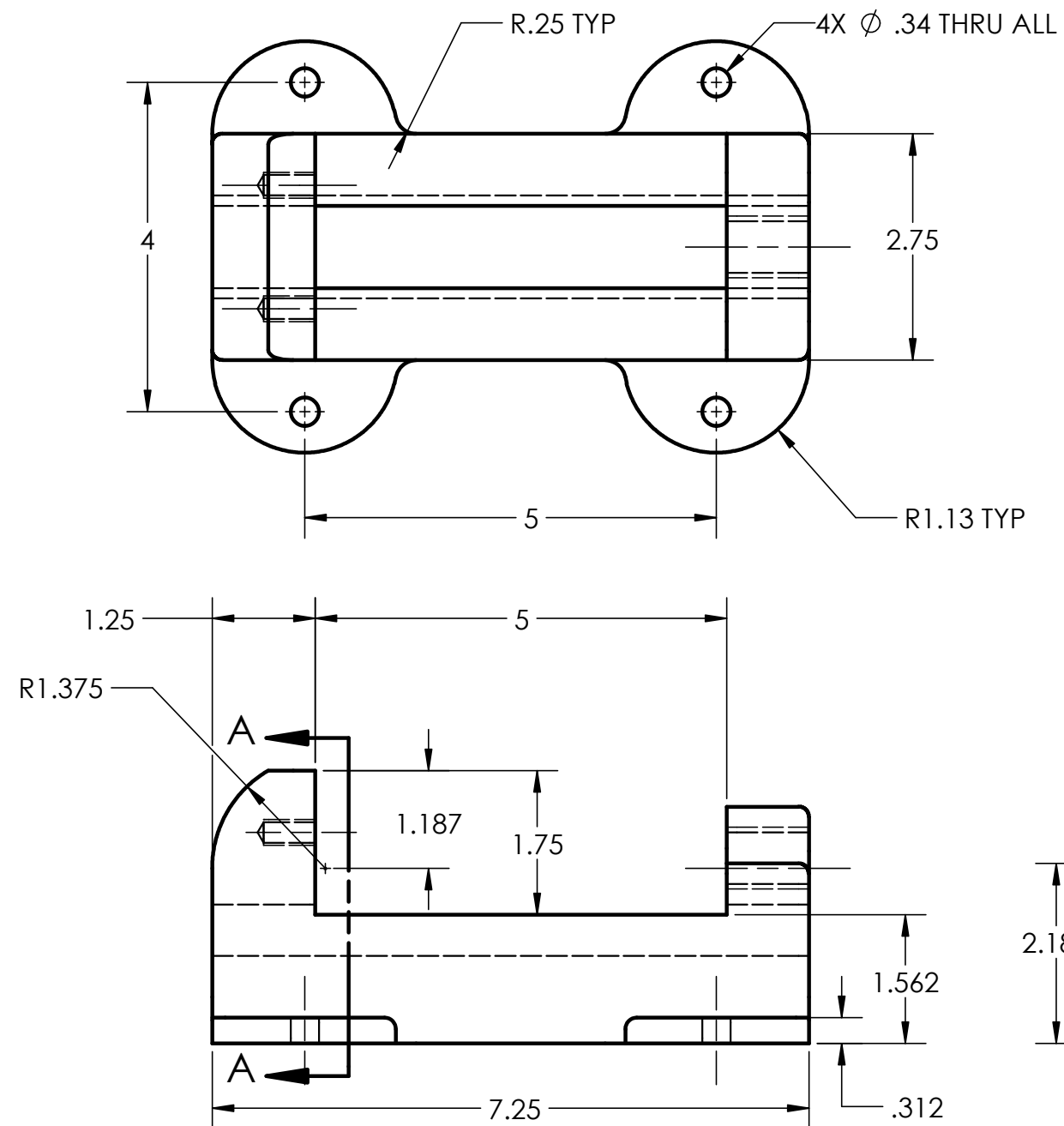
BASE

DR. BY: VINH NGUYEN

EDG 1212-03

DATE: 3/21/2018

SCALE: 1:2

SHEET NO.
1
OF   X

.812

.375

Ø .515 THRU

Ø .718

.093 X .125 THRU

13/16-20 UNEF-3A, LH

KENNESAW STATE UNIVERSITY®
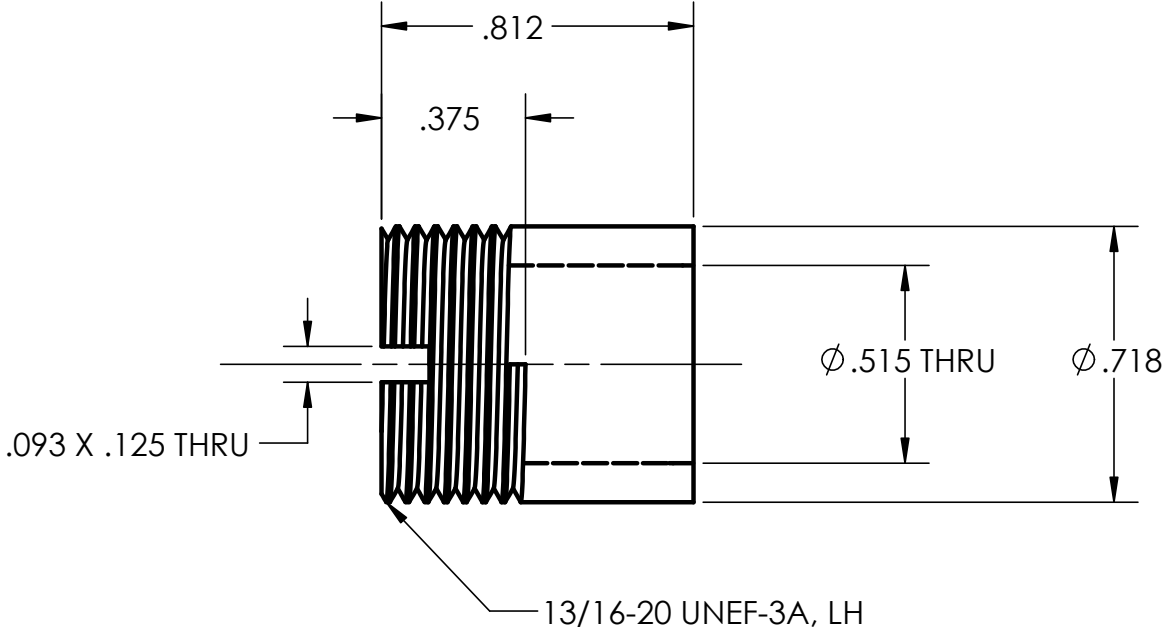
COLLAR

DR. BY: VINH NGUYEN   EDG 1212-03

SHEET NO.

1

DATE: 3/21/2018   SCALE: 2:1

OF X

Ø .104 THRU ALL

Ø .313 THRU ALL
  .312

90.0°

S Ø .75

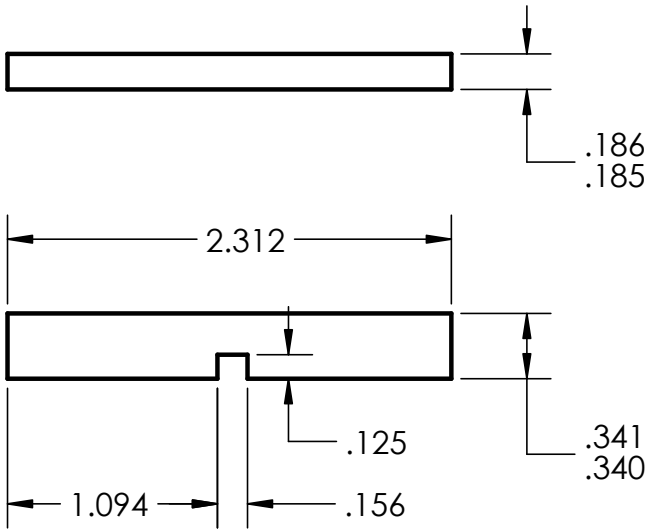5.125

.3409

.3409

2X Ø .104 THRU ALL

Ø.312

NOTES:
1. ALL DIMENSIONS TO BE
    ±0.05 UNLESS OTHERWISE
    NOTED

.187

2.75

.625

1.5

1.75

1

2X ⌀ .266 THRU ALL
⌵ ⌀ .507 X 100°

KENNESAW
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JAW PLATE

DR. BY: VINH NGUYEN	EDG 1212-03	SHEET NO.
DATE: 3/21/2018	SCALE: 1:1	1 OF X

.75

.375

ϕ .142
.140

.031

.046

12-24UNC-2A

.186
.185

2.312

.125

.341
.340

1.094

.156

KENNESAW STATE UNIVERSITY

SLIDE KEY
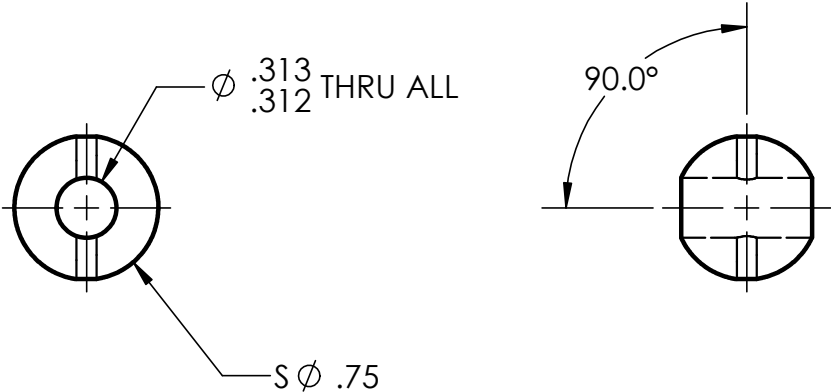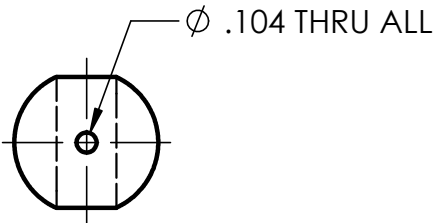
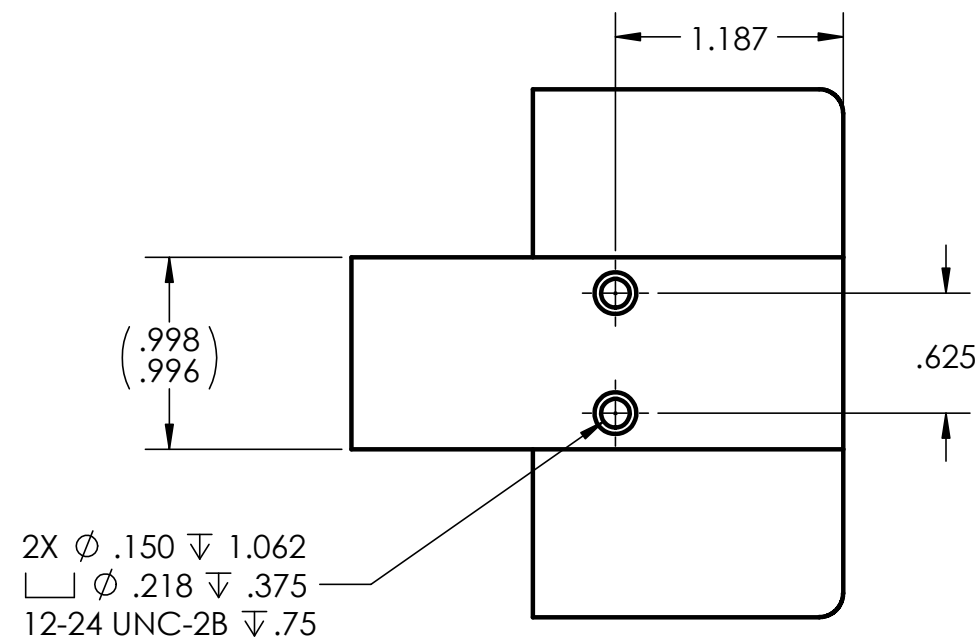DR. BY: VINH NGUYEN   EDG 1212-03

SHEET NO.
1
OF   X

DATE: 3/21/2018   SCALE: 1:1
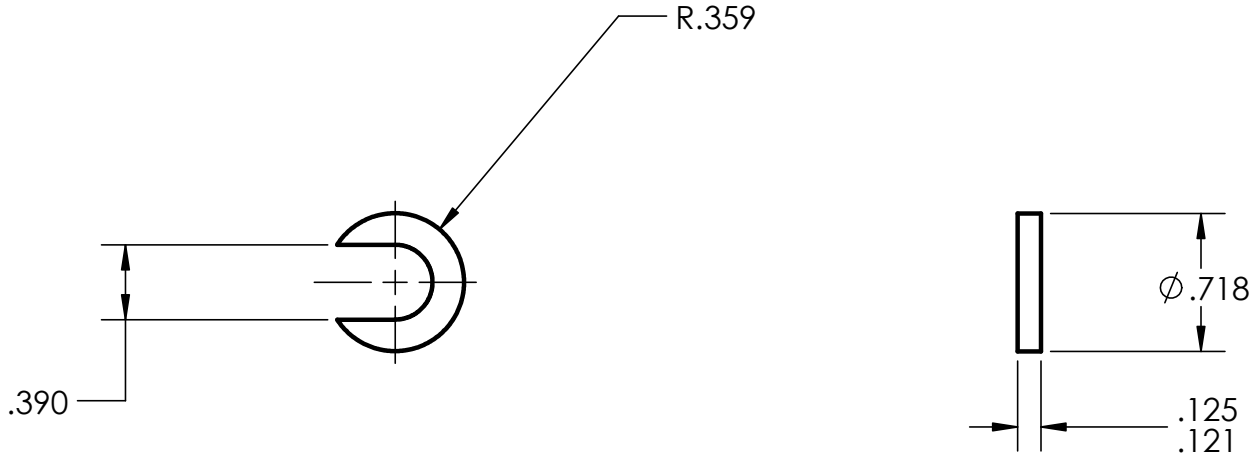
NOTES:
1. ALL DIMENSIONS TO BE ±0.05 UNLESS OTHERWISE NOTED
2. ALL FILLETS AND ROUNDS TO R.125 UNLESS OTHERWISE NOTED

2.750
.625
1.500
1.75

2X Ø .250 ▽ .750
1/4-20 UNC-2B ▽ .625

1.562
R.25 TYP
1.187
R1.375
.125
1.375
2.19
.375
2.562

R.687
R.25 TYP
Ø .750 / .748 ▽ 1.187 FLAT BOTTOM
.812-20 UNEF-3B, LH ▽ .437
.507 / .504
.188 / .187
2.187
1.5
.219 / .217
.875
.998 / .996

1.187
(.998 / .996)
.625

2X Ø .150 ▽ 1.062
⌴ Ø .218 ▽ .375
12-24 UNC-2B ▽ .75
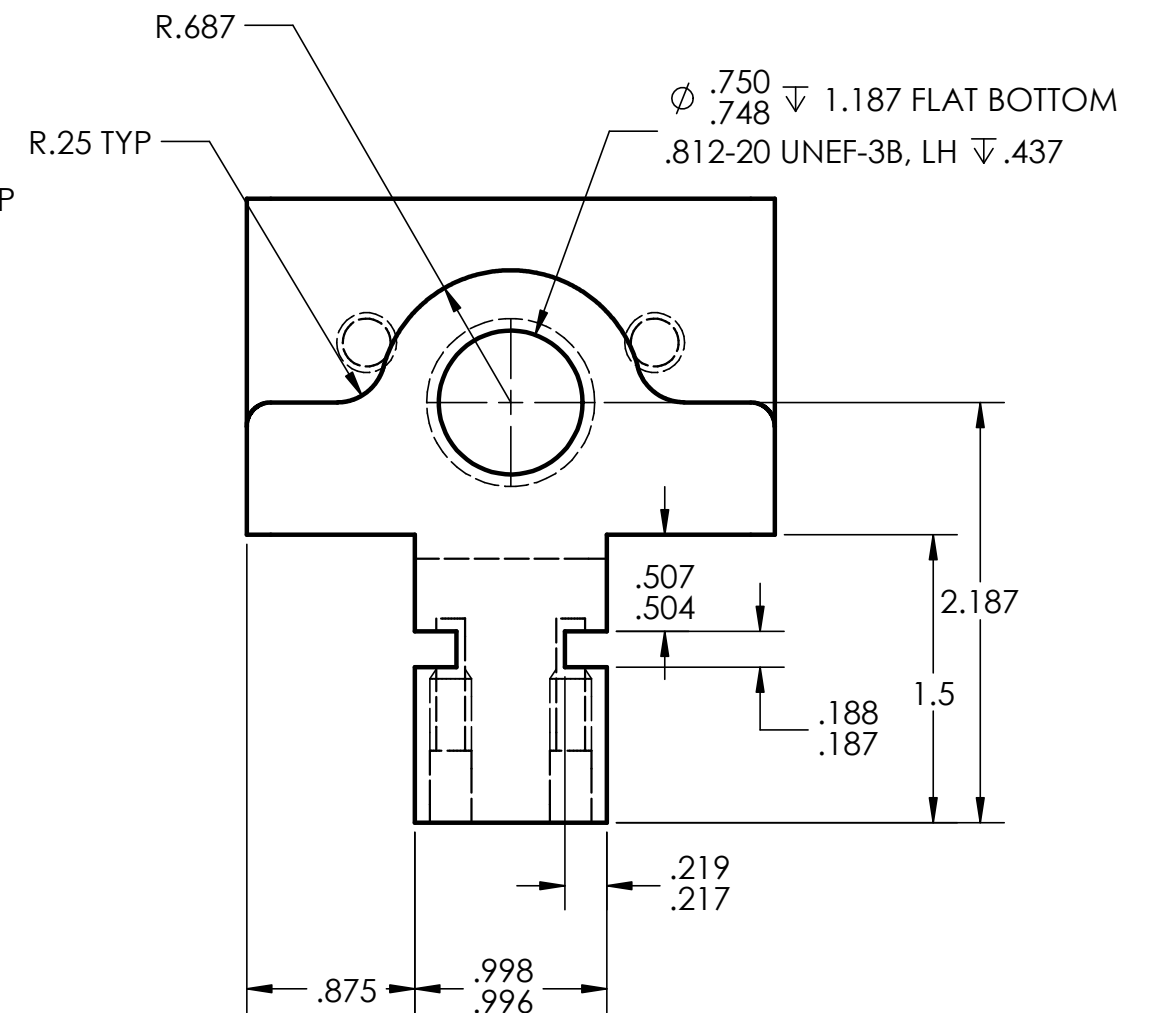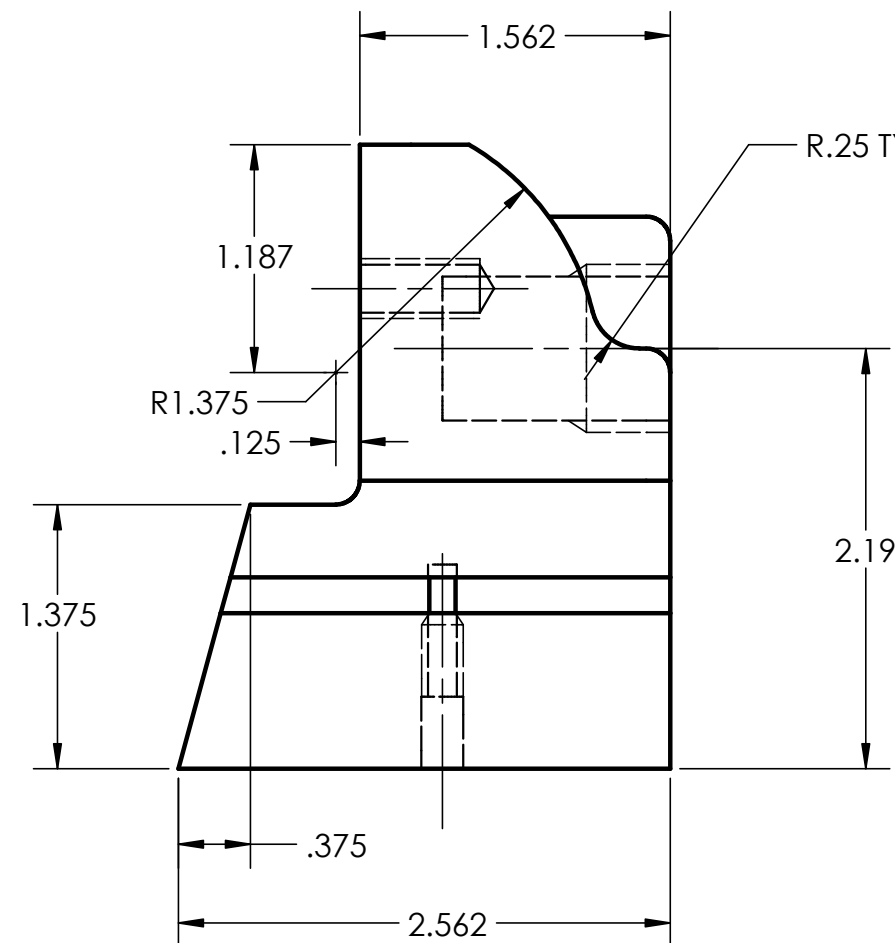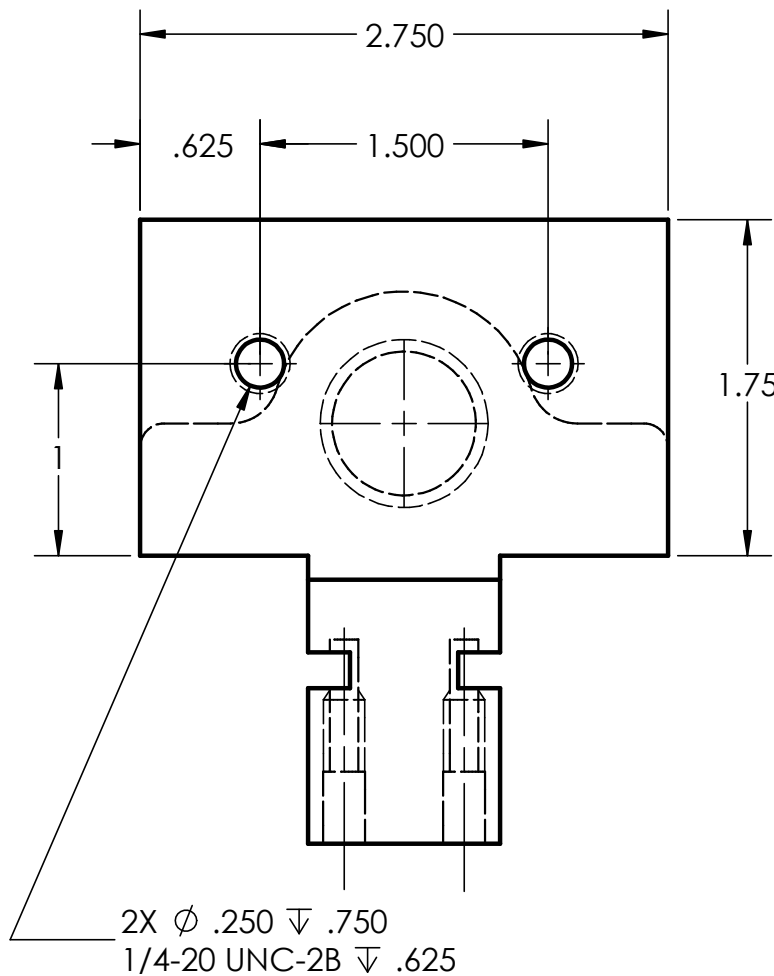
SLIDING JAW
DR. BY: VINH NGUYEN
EDG 1212-03
SHEET NO.
1
OF   X
DATE: 3/21/2018
SCALE: 1:1

R.359

.390

⌀.718

.125
.121

6.25

.25

.812

3.937

.25

.125

Ø.75

(Ø.5)

Ø .344 THRU ALL

.625-8 ACME

Ø.375   Ø.5

R.062