



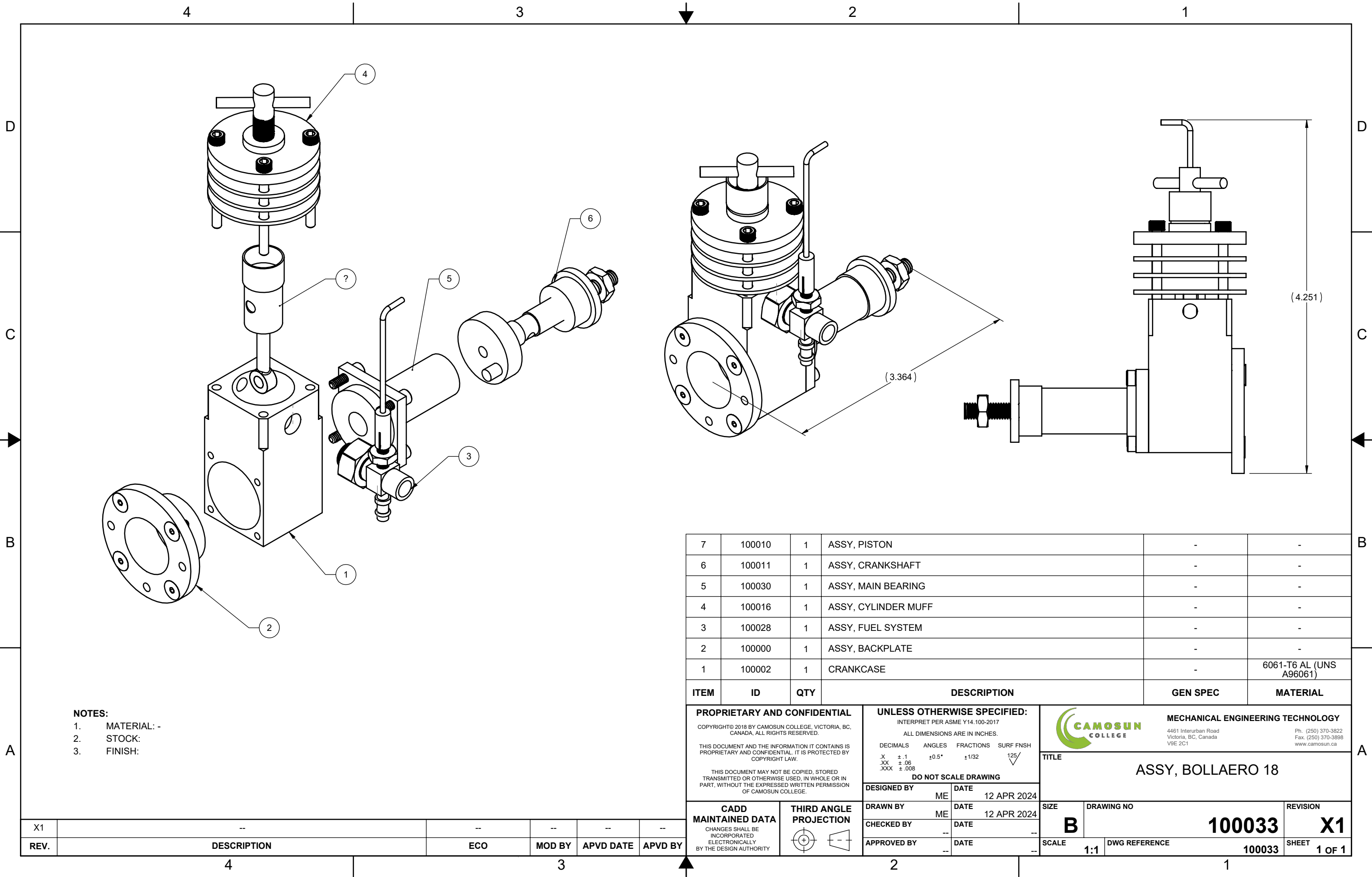
ENGINEERING BOM

100033-BOM

ASSY, BOLLAERO 18


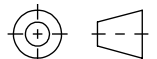
Creation Date 10-Apr-24
Last Modified Date 12-Apr-24
Last Modified By MAX EIBL
Revision: X1
State: -
Filename: 100033-BOM.xlsx

| Item | Bom Position | Qty | Um | Id | Description | Make/Buy | Mfg Number | Mfg Name | Type | DRAWING | DWG REV. | State |
|------|--------------|---------|---------|---------|-----------------------------------|----------|------------|-----------|----------|----------|----------|----------|
| 1 | 0 | Column1 | Column2 | Column5 | Column6 | Column7 | Column14 | Column15 | Column16 | Column17 | Column18 | Column19 |
| 2 | 0 | 1 | EA | 100033 | ASSY, BOLLAERO 18 | MAKE | - | - | A | 100033 | X1 | - |
| 3 | 1 | 1 | EA | 100002 | CRANKCASE | MAKE | - | - | P | 100002 | X1 | - |
| 4 | 2 | 1 | EA | 100000 | ASSY, BACKPLATE | MAKE | - | - | A | 100000 | X1 | - |
| 5 | 2.1 | 1 | EA | 100000 | BACKPLATE, 1-1/2 ALUMINUM BAR | MAKE | - | - | P | 100000 | X1 | - |
| 6 | 2.2 | 4 | EA | 100024 | ALLEN HEAD SCREW, 4-40 X 1/4 CSK | BUY | 91251A106 | MCMMASTER | P | 100024 | X1 | - |
| 7 | 3 | 1 | EA | 100028 | ASSY, FUEL SYSTEM | MAKE | - | - | A | 100028 | X1 | - |
| 8 | 3.1 | 1 | EA | 100014 | VENTURI, 5/16 SQ ALUMINUM | MAKE | - | - | P | 100014 | X1 | - |
| 9 | 3.2 | 1 | EA | 100019 | NEEDLE, THIMBLE | MAKE | - | - | P | 100019 | X1 | - |
| 10 | 3.3 | 1 | EA | 100021 | NEEDLE, 1/16 MUSIC WIRE | MAKE | - | - | P | 100021 | X1 | - |
| 11 | 3.4 | 1 | EA | 100025 | SPRAY BAR, 3/16 BRASS | MAKE | - | - | P | 100025 | X1 | - |
| 12 | 3.5 | 1 | EA | 100027 | NUT, 6-32 | BUY | 91813A130 | MCMMASTER | P | 100027 | X1 | - |
| 13 | 3.6 | 1 | EA | 100031 | JAM NUT, 7/16 AF HEX BRASS | BUY | 94846A208 | MCMMASTER | P | 100031 | X1 | - |
| 14 | 4 | 1 | EA | 100016 | ASSY, CYLINDER MUFF | MAKE | - | - | A | 100016 | X1 | - |
| 15 | 4.1 | 1 | EA | 100016 | CYLINDER HEAD, 1-3/8 ALUMINUM BAR | MAKE | - | - | P | 100016 | X1 | - |
| 16 | 4.2 | 4 | EA | 100032 | 4-40 ALLEN HEAD SCREW, 1.25 LONG | MAKE | - | - | P | 100032 | X1 | - |
| 17 | 4.3 | 1 | EA | 100008 | TOMMY BAR, 1/8 MUSIC WIRE | MAKE | - | - | P | 100008 | X1 | - |
| 18 | 4.4 | 1 | EA | 100015 | COMPRESSION SCREW, 1/4 STEEL | MAKE | - | - | P | 100015 | X1 | - |
| 19 | 5 | 1 | EA | 100030 | ASSY, MAIN BEARING | MAKE | - | - | A | 100030 | X1 | - |
| 20 | 5.1 | 4 | EA | 100029 | ALLEN HEAD SCREW, 4-40 X .375 | BUY | 91251A108 | MCMMASTER | P | 100029 | X1 | - |
| 21 | 5.2 | 1 | EA | 100001 | MAIN BEARING, 1 SQ ALUMINUM BAR | MAKE | - | - | P | 100001 | X1 | - |
| 22 | 6 | 1 | EA | 100011 | ASSY, CRANKSHAFT | MAKE | - | - | A | 100011 | X1 | - |
| 23 | 6.1 | 1 | EA | 100011 | CRANKSHAFT, 7/8 STRESSPROOF STEEL | MAKE | - | - | P | 100011 | X1 | - |
| 24 | 6.2 | 1 | EA | 100012 | PROP DRIVER, 3/4 ALUMINUM BAR | MAKE | - | - | P | 100012 | X1 | - |
| 25 | 6.3 | 1 | EA | 100013 | CRANKPIN, 5/32 STEEL ROLLER | MAKE | - | - | P | 100013 | X1 | - |
| 26 | 6.4 | 1 | EA | 100022 | MACHINE NUT, 10-32 | BUY | 91813A160 | MCMMASTER | P | 100022 | X1 | - |
| 27 | 6.5 | 1 | EA | 100018 | STUD, 10-32 UNC-2A X TBD | MAKE | - | - | P | 100018 | X1 | - |
| 28 | 7.0 | 1 | EA | 100010 | ASSY, PISTON | MAKE | - | - | A | 100010 | X2 | - |
| 29 | 7.1 | 1 | EA | 100005 | CONTRA-PISTON, CAST IRON | MAKE | - | - | P | 100005 | X3 | - |
| 30 | 7.2 | 1 | EA | 100009 | PISTON, CAST IRON | MAKE | - | - | P | 100009 | X4 | - |
| 31 | 7.3 | 1 | EA | 100004 | GUDGEON PIN, 5/32" DRILL ROD | MAKE | - | - | P | 100004 | X5 | - |
| 32 | 7.4 | 1 | EA | 100007 | CONROD, 2024 T3 ALUMINUM | MAKE | - | - | P | 100007 | X6 | - |

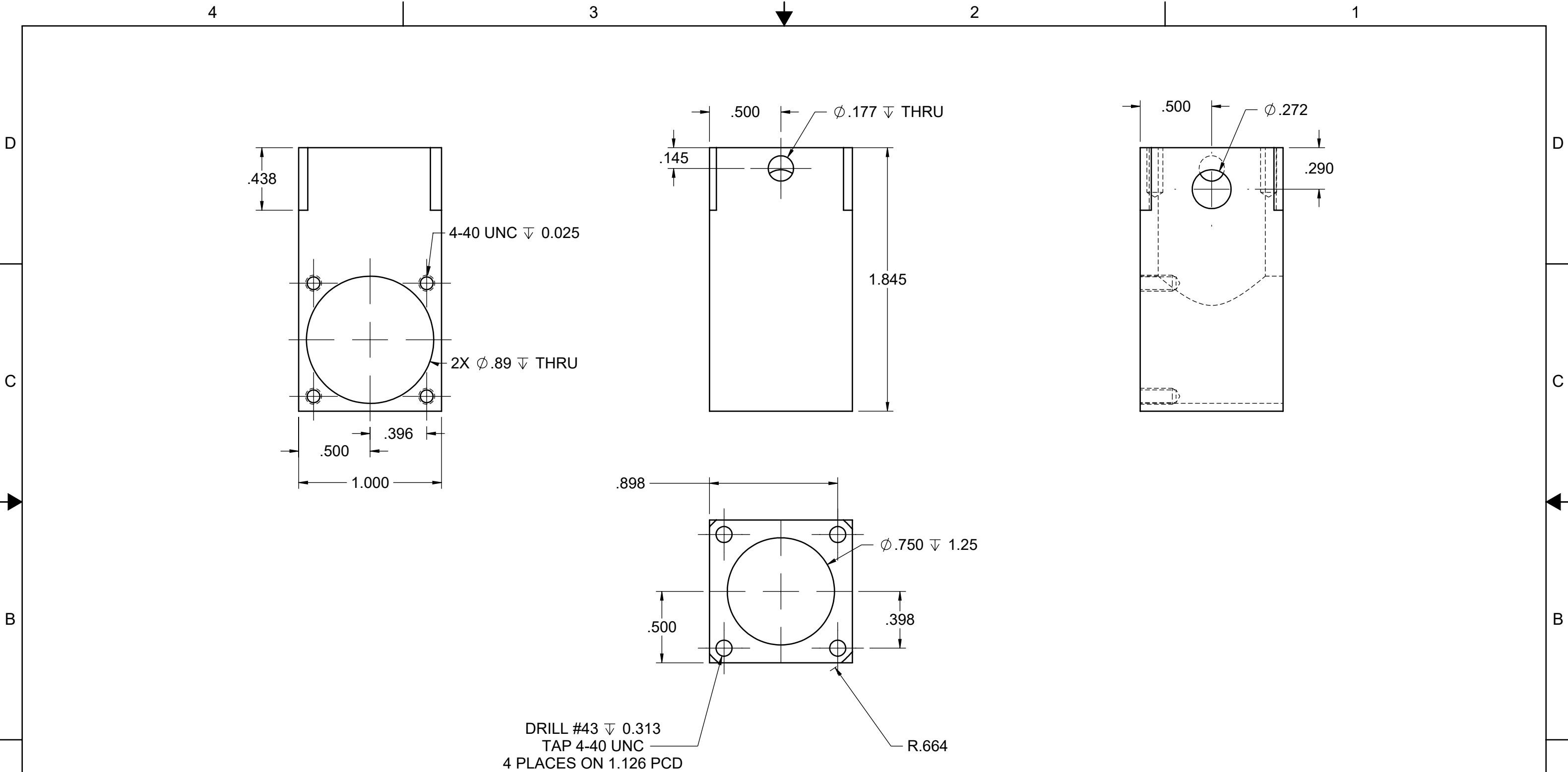


NOTES:
1. MATERIAL: -
2. STOCK:
3. FINISH:

| | | | | | |
|---|--------|---|---------------------|---|-------------------------|
| 7 | 100010 | 1 | ASSY, PISTON | - | - |
| 6 | 100011 | 1 | ASSY, CRANKSHAFT | - | - |
| 5 | 100030 | 1 | ASSY, MAIN BEARING | - | - |
| 4 | 100016 | 1 | ASSY, CYLINDER MUFF | - | - |
| 3 | 100028 | 1 | ASSY, FUEL SYSTEM | - | - |
| 2 | 100000 | 1 | ASSY, BACKPLATE | - | - |
| 1 | 100002 | 1 | CRANKCASE | - | 6061-T6 AL (UNS A96061) |

| ITEM | ID | QTY | DESCRIPTION | | GEN SPEC | MATERIAL | | | | |
|---|----|-----|---|--|--|----------|-----------------------------|--|---------------------------------------|----------------------------------|
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| | | | | | | | | | TITLE ASSY, BOLLAERO 18 | |
| | | | CADD MAINTAINED DATA CHANGES SHALL BE INCORPORATED ELECTRONICALLY BY THE DESIGN AUTHORITY | | THIRD ANGLE PROJECTION  | | SIZE B | DRAWING NO 100033 | | REVISION X1 |
| | | | | | APPROVED BY -- | | SCALE 1:1 | DWG REFERENCE 100033 | | SHEET 1 OF 1 |

| | | | | | |
|------|-------------|-----|--------|-----------|---------|
| X1 | -- | -- | -- | -- | -- |
| REV. | DESCRIPTION | ECO | MOD BY | APVD DATE | APVD BY |



NOTES:

1. MATERIAL: 6061-T6 AL (UNS A96061)
2. STOCK:
3. FINISH:

DRILL #43 ∇ 0.313
TAP 4-40 UNC
4 PLACES ON 1.126 PCD

R.664

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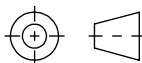
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| DECIMALS | ANGLES | FRACTIONS | SURF FNISH |
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| .X ±.1 .XX ±.06 .XXX ±.008 | ±0.5° | ±1/32 | 125/√ |

DO NOT SCALE DRAWING

| | | | |
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| DESIGNED BY | ME | DATE | 12 APR 2024 |
| DRAWN BY | ME | DATE | 12 APR 2024 |
| CHECKED BY | -- | DATE | -- |
| APPROVED BY | -- | DATE | -- |



MECHANICAL ENGINEERING TECHNOLOGY

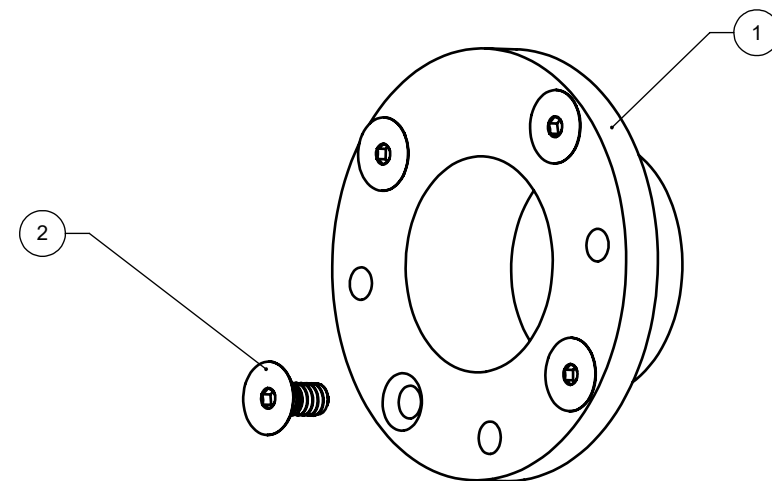
4461 Interurban Road
Victoria, BC, Canada
V9E 2C1

Ph. (250) 370-3822
Fax. (250) 370-3898
www.camosun.ca

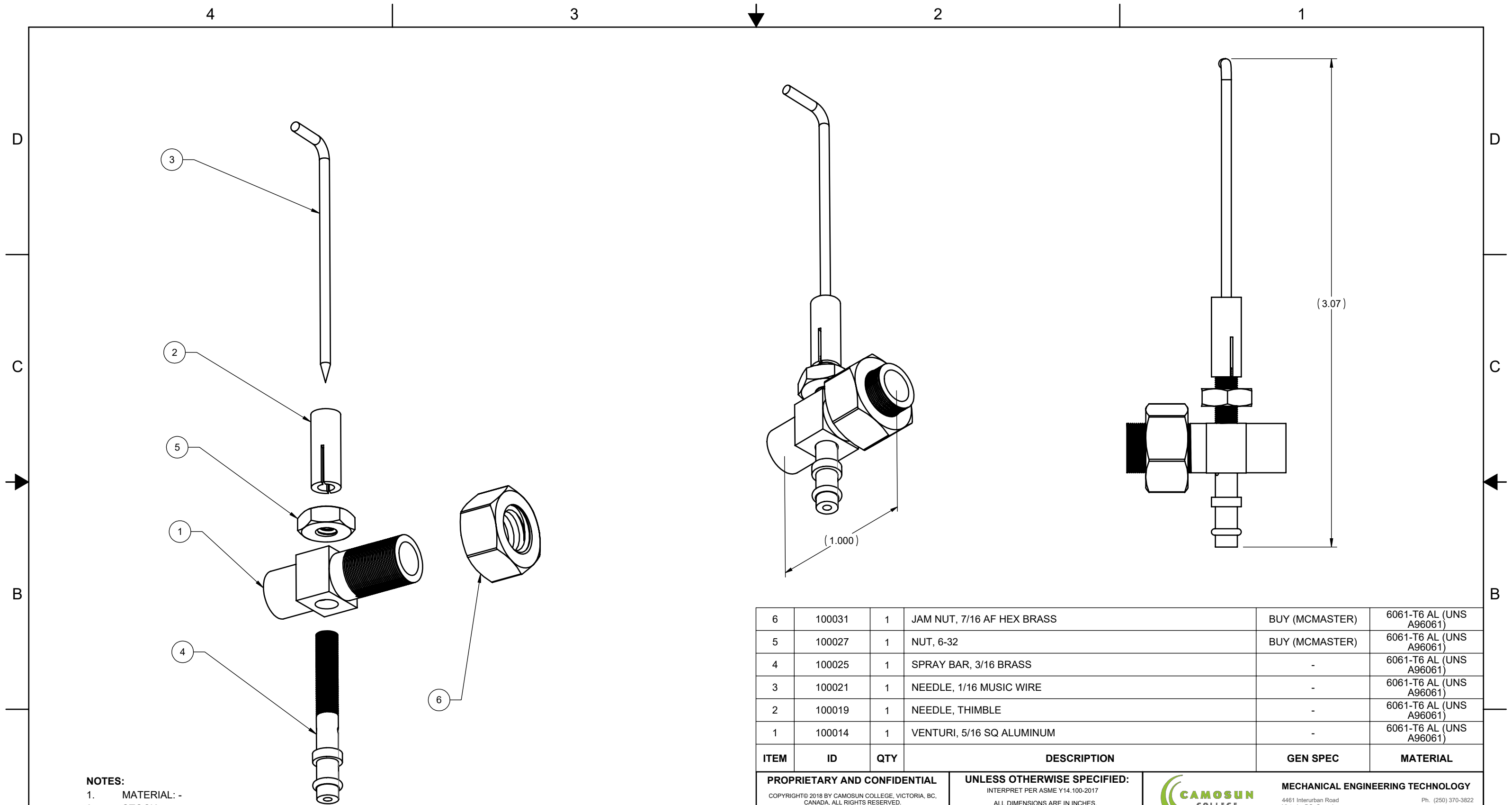
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CRANKCASE

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| SCALE 3:1 | DWG REFERENCE 100002 | SHEET 1 OF 1 |


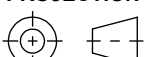
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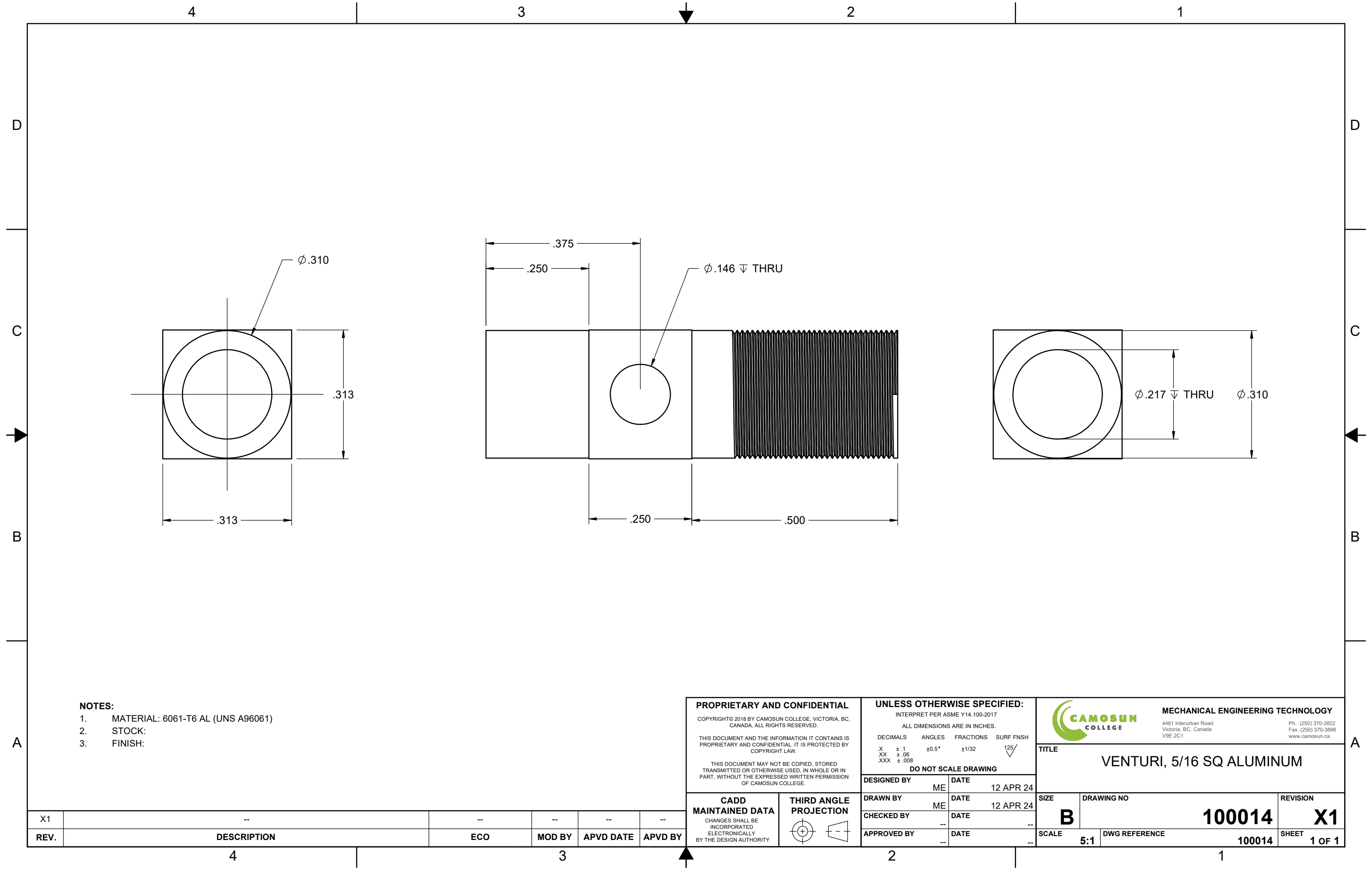
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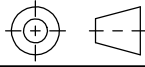
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| 5 | 100027 | 1 | NUT, 6-32 | BUY (MCMMASTER) | 6061-T6 AL (UNS A96061) |
| 4 | 100025 | 1 | SPRAY BAR, 3/16 BRASS | - | 6061-T6 AL (UNS A96061) |
| 3 | 100021 | 1 | NEEDLE, 1/16 MUSIC WIRE | - | 6061-T6 AL (UNS A96061) |
| 2 | 100019 | 1 | NEEDLE, THIMBLE | - | 6061-T6 AL (UNS A96061) |
| 1 | 100014 | 1 | VENTURI, 5/16 SQ ALUMINUM | - | 6061-T6 AL (UNS A96061) |
| ITEM | ID | QTY | DESCRIPTION | GEN SPEC | MATERIAL |

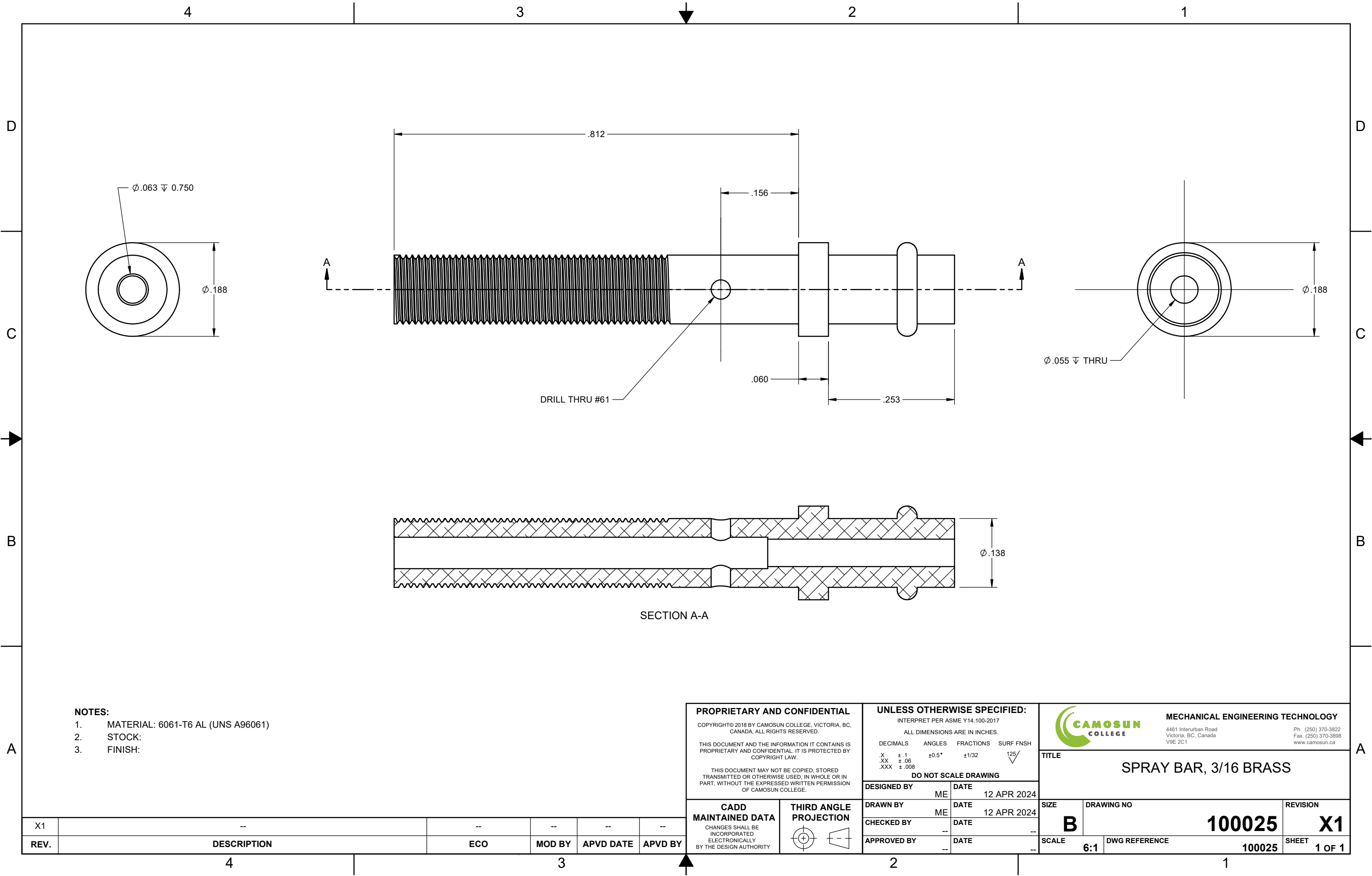
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| | | <div>TITLE</div> <div>ASSY, FUEL SYSTEM</div> | | | |
| <div>CADD MAINTAINED DATA</div> <div>CHANGES SHALL BE INCORPORATED ELECTRONICALLY BY THE DESIGN AUTHORITY</div> | <div>THIRD ANGLE PROJECTION</div> <div></div> | <div><div>DESIGNED BY</div><div>ME</div><div>DATE</div><div>12 APR 2024</div></div> <div><div>DRAWN BY</div><div>ME</div><div>DATE</div><div>12 APR 2024</div></div> <div><div>CHECKED BY</div><div>--</div><div>DATE</div><div>--</div></div> <div><div>APPROVED BY</div><div>--</div><div>DATE</div><div>--</div></div> | <div><div>SIZE</div><div>B</div></div> <div><div>DRAWING NO</div><div>100028</div></div> <div><div>REVISION</div><div>X1</div></div> | | |
| | | <div><div>SCALE</div><div>1.75:1</div></div> | <div><div>DWG REFERENCE</div><div>100028</div></div> | <div><div>SHEET</div><div>1 OF 1</div></div> | |

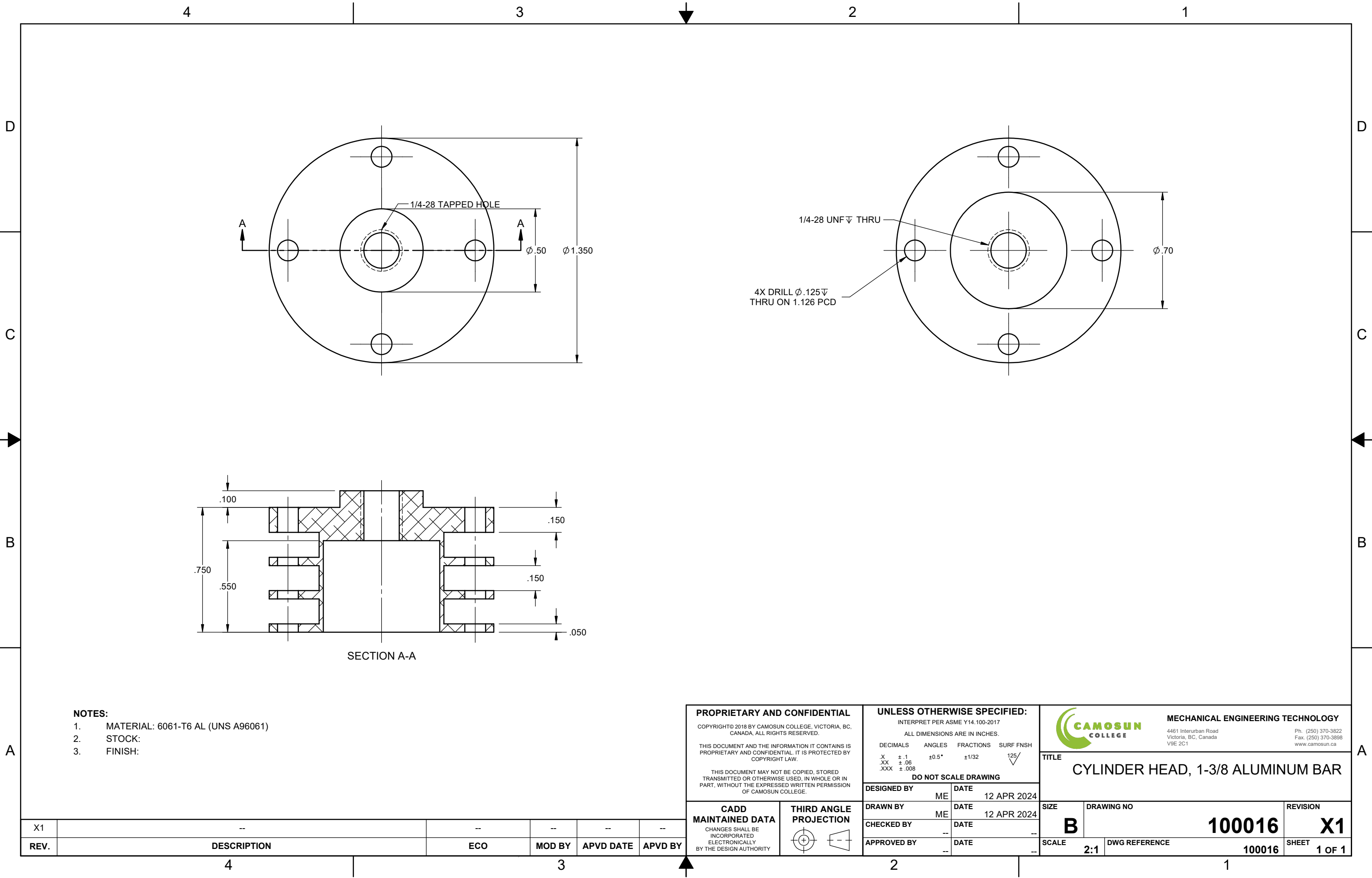
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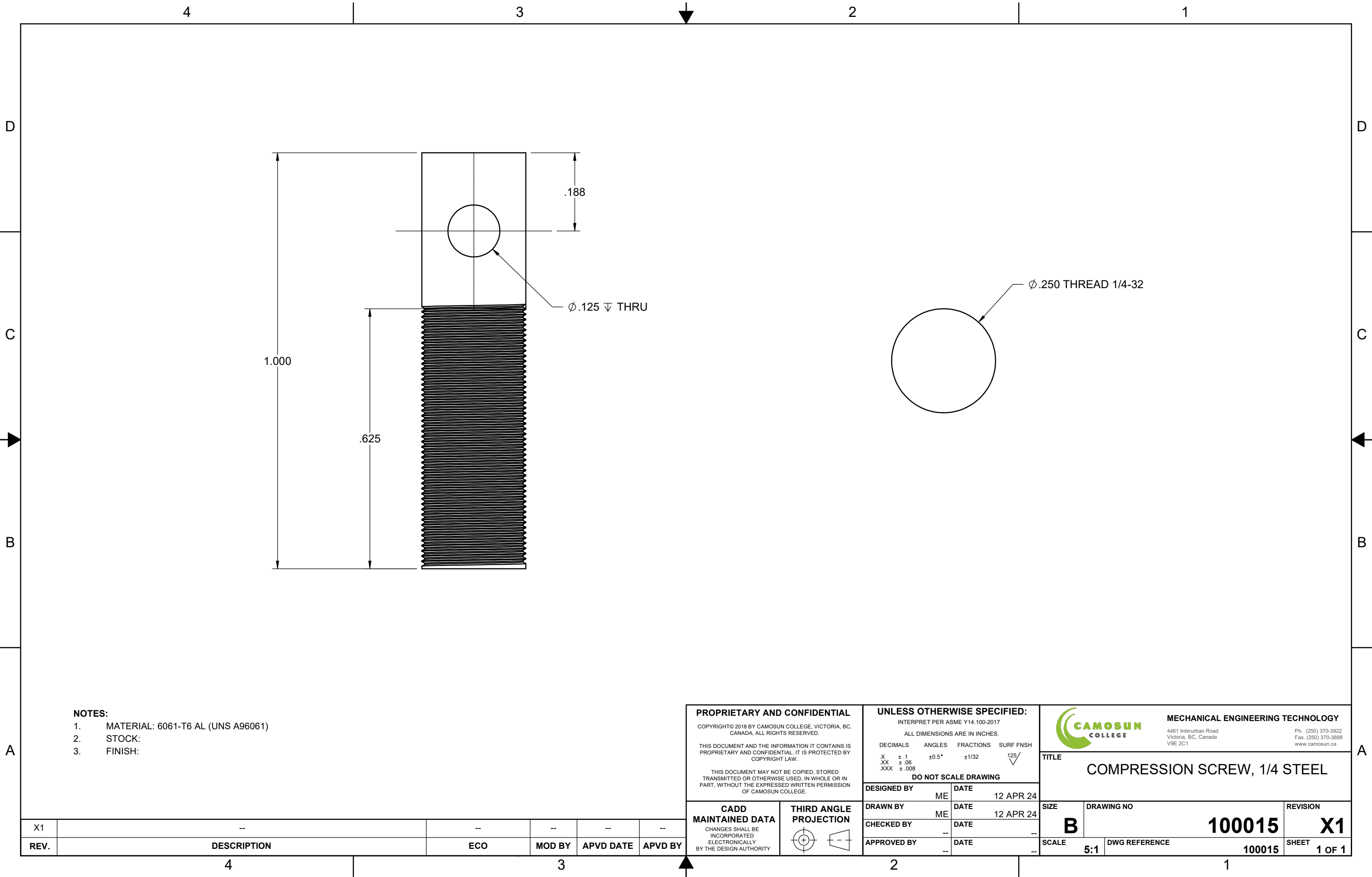


- NOTES:**
- 1. MATERIAL: 6061-T6 AL (UNS A96061)
 - 2. STOCK:
 - 3. FINISH:


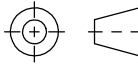
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| | | | | TITLE VENTURI, 5/16 SQ ALUMINUM | | |
| CADD MAINTAINED DATA CHANGES SHALL BE INCORPORATED ELECTRONICALLY BY THE DESIGN AUTHORITY | THIRD ANGLE PROJECTION  | DESIGNED BY | DATE | SIZE B | DRAWING NO 100014 | REVISION X1 |
| | | ME | 12 APR 24 | | | |
| | | DRAWN BY | DATE | | | |
| | | ME | 12 APR 24 | | | |
| CHECKED BY | DATE | | | | | |
| -- | -- | | | | | |
| APPROVED BY | DATE | | | | | |
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| | | | | SCALE | DWG REFERENCE | SHEET |
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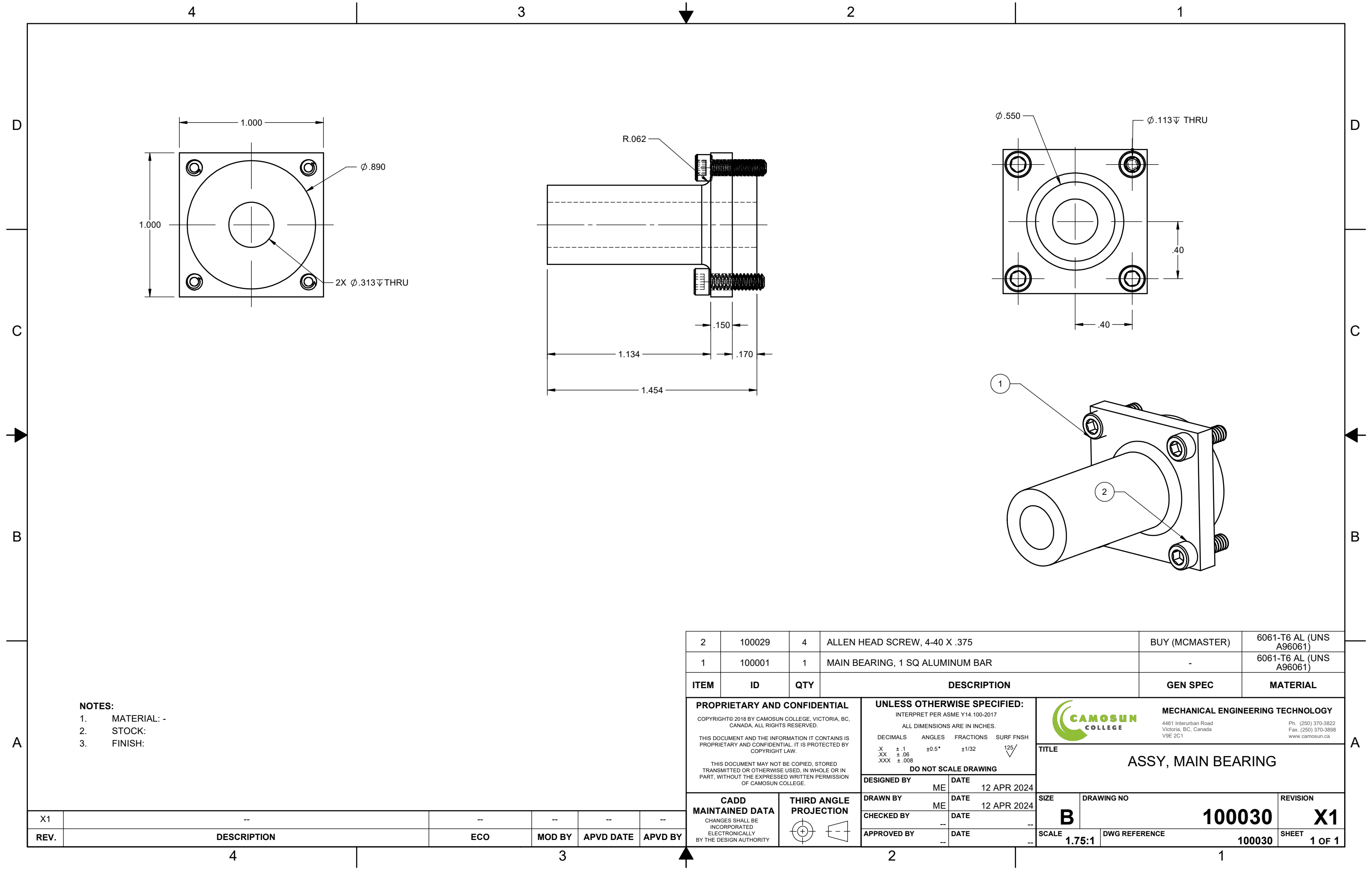







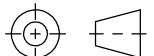
- NOTES:**
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 - 2. STOCK:
 - 3. FINISH:

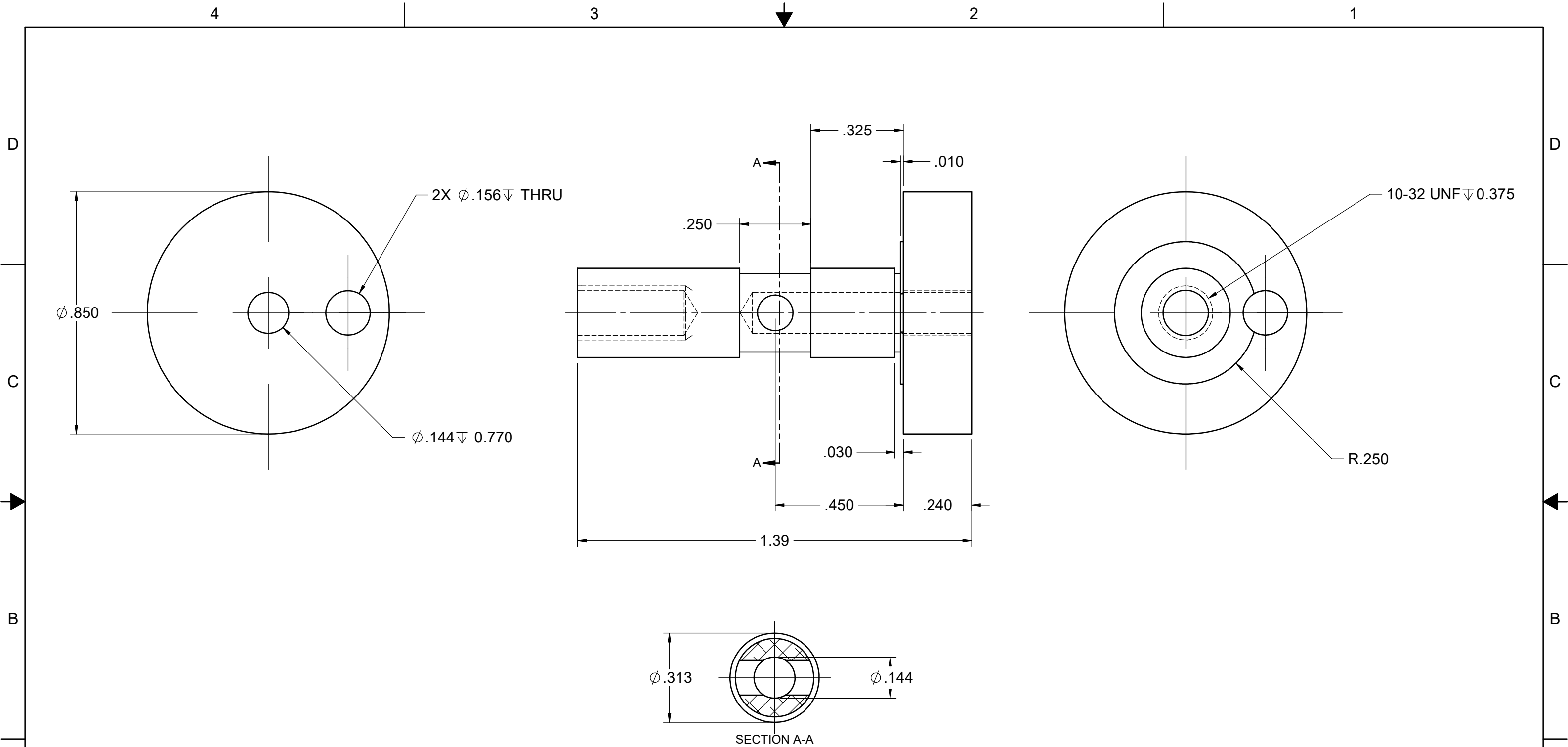
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| TITLE COMPRESSION SCREW, 1/4 STEEL | | | | | |
| CADD MAINTAINED DATA CHANGES SHALL BE INCORPORATED ELECTRONICALLY BY THE DESIGN AUTHORITY | THIRD ANGLE PROJECTION  | DESIGNED BY ME DATE 12 APR 24 | DRAWN BY ME DATE 12 APR 24 | CHECKED BY -- DATE -- | APPROVED BY -- DATE -- |
| | | SIZE B | DRAWING NO 100015 | | REVISION X1 |
| | | SCALE 5:1 | DWG REFERENCE 100015 | | SHEET 1 OF 1 |



NOTES:

1. MATERIAL: -
2. STOCK:
3. FINISH:

| | | | | | | |
|--|--------|---|---|---------------|--|-------------------------|
| 2 | 100029 | 4 | ALLEN HEAD SCREW, 4-40 X .375 | | BUY (MCMMASTER) | 6061-T6 AL (UNS A96061) |
| 1 | 100001 | 1 | MAIN BEARING, 1 SQ ALUMINUM BAR | | - | 6061-T6 AL (UNS A96061) |
| ITEM | ID | QTY | DESCRIPTION | | GEN SPEC | MATERIAL |
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| | | | <div><div>.X ± .1 ±0.5° ±1/32 125/√</div><div>.XX ± .06</div><div>.XXX ± .008</div></div> <div>DO NOT SCALE DRAWING</div> | | | |
| CADD MAINTAINED DATA | | THIRD ANGLE PROJECTION | DESIGNED BY | ME | DATE | 12 APR 2024 |
| CHANGES SHALL BE INCORPORATED ELECTRONICALLY BY THE DESIGN AUTHORITY | |  | DRAWN BY | ME | DATE | 12 APR 2024 |
| | | | CHECKED BY | -- | DATE | -- |
| | | | APPROVED BY | -- | DATE | -- |
| | | | SIZE | DRAWING NO | | REVISION |
| | | | B | 100030 | | X1 |
| | | | SCALE | DWG REFERENCE | | SHEET |
| | | | 1.75:1 | 100030 | | 1 OF 1 |



- NOTES:
1. MATERIAL: 6061-T6 AL (UNS A96061)
 2. STOCK:
 3. FINISH:

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| DECIMALS | ANGLES | FRACTIONS | SURF FNISH |
|----------------------------------|--------|-----------|------------|
| .X ±.1 .XX ±.06 .XXX ±.008 | ±0.5° | ±1/32 | 125/√ |

DO NOT SCALE DRAWING

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|-------------|----|------|-------------|
| DESIGNED BY | ME | DATE | 12 APR 2024 |
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| DRAWN BY | ME | DATE | 12 APR 2024 |
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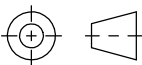
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CADD
MAINTAINED DATA

CHANGES SHALL BE INCORPORATED ELECTRONICALLY BY THE DESIGN AUTHORITY

THIRD ANGLE
PROJECTION



MECHANICAL ENGINEERING TECHNOLOGY

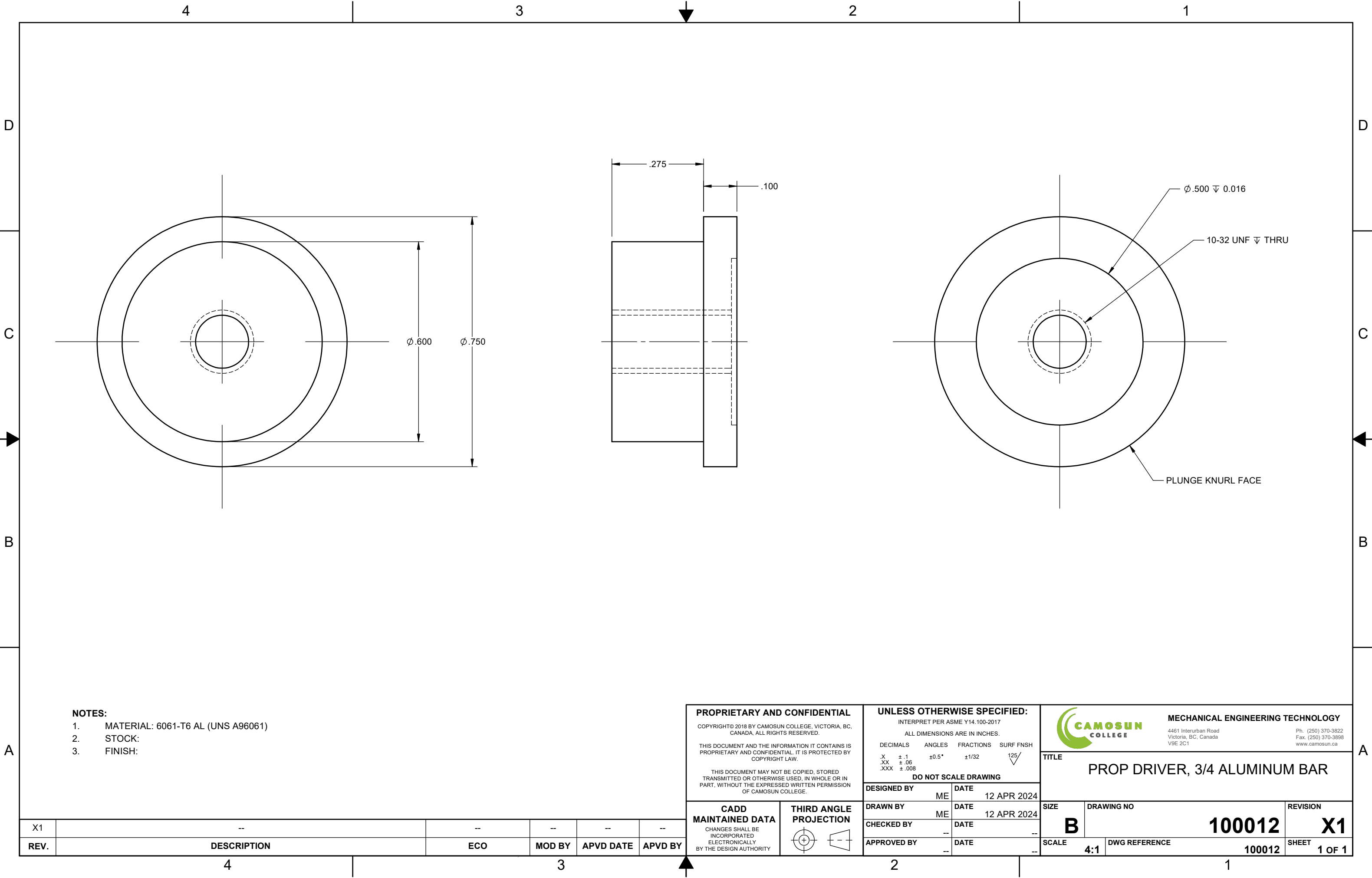
4461 Interurban Road
Victoria, BC, Canada
V9E 2C1

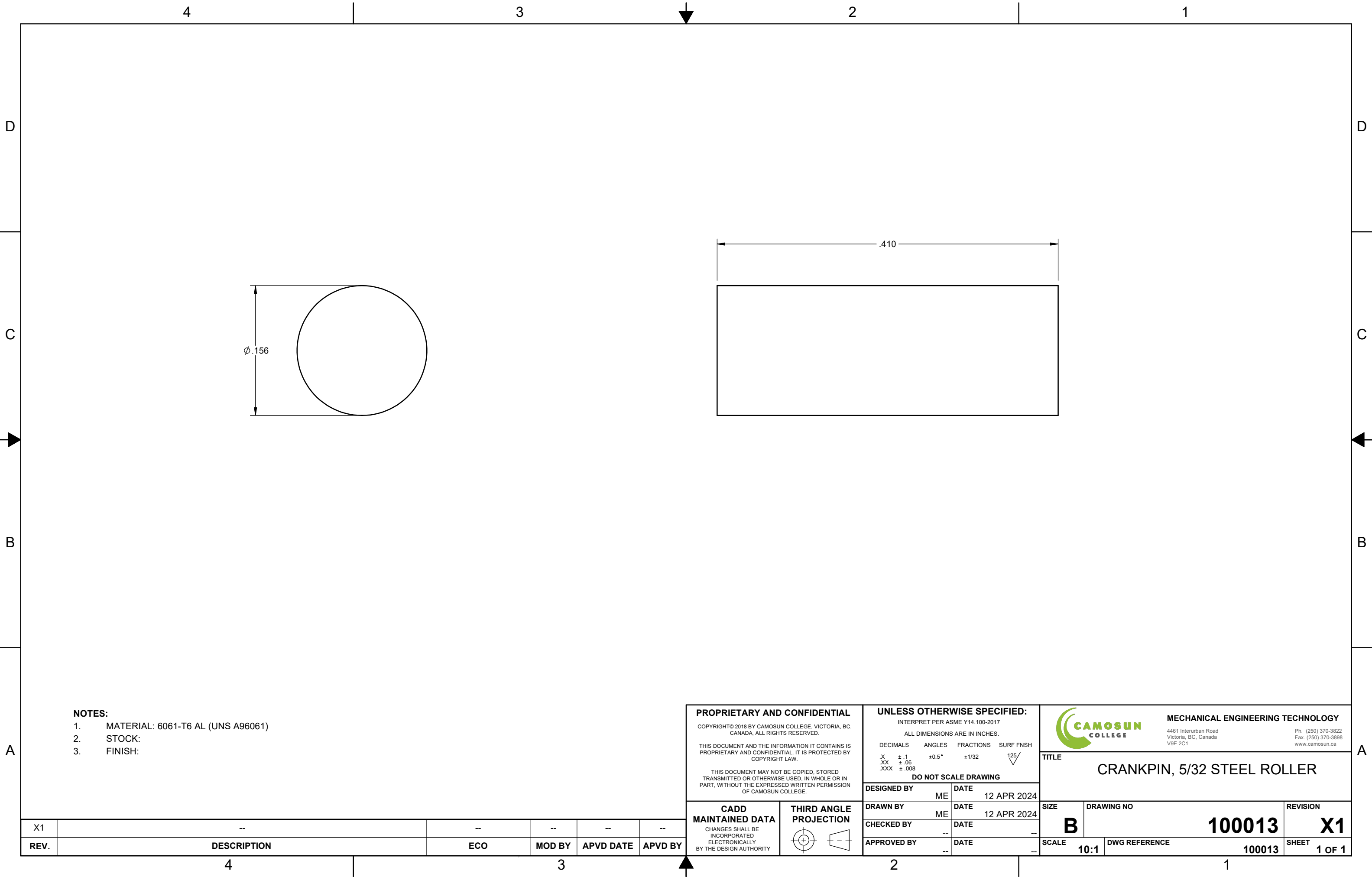
Ph. (250) 370-3822
Fax. (250) 370-3898
www.camosun.ca

TITLE
CRANKSHAFT, 7/8 STRESSPROOF STEEL


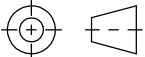
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| SCALE 3:1 | DWG REFERENCE 100011 | SHEET 1 OF 1 |

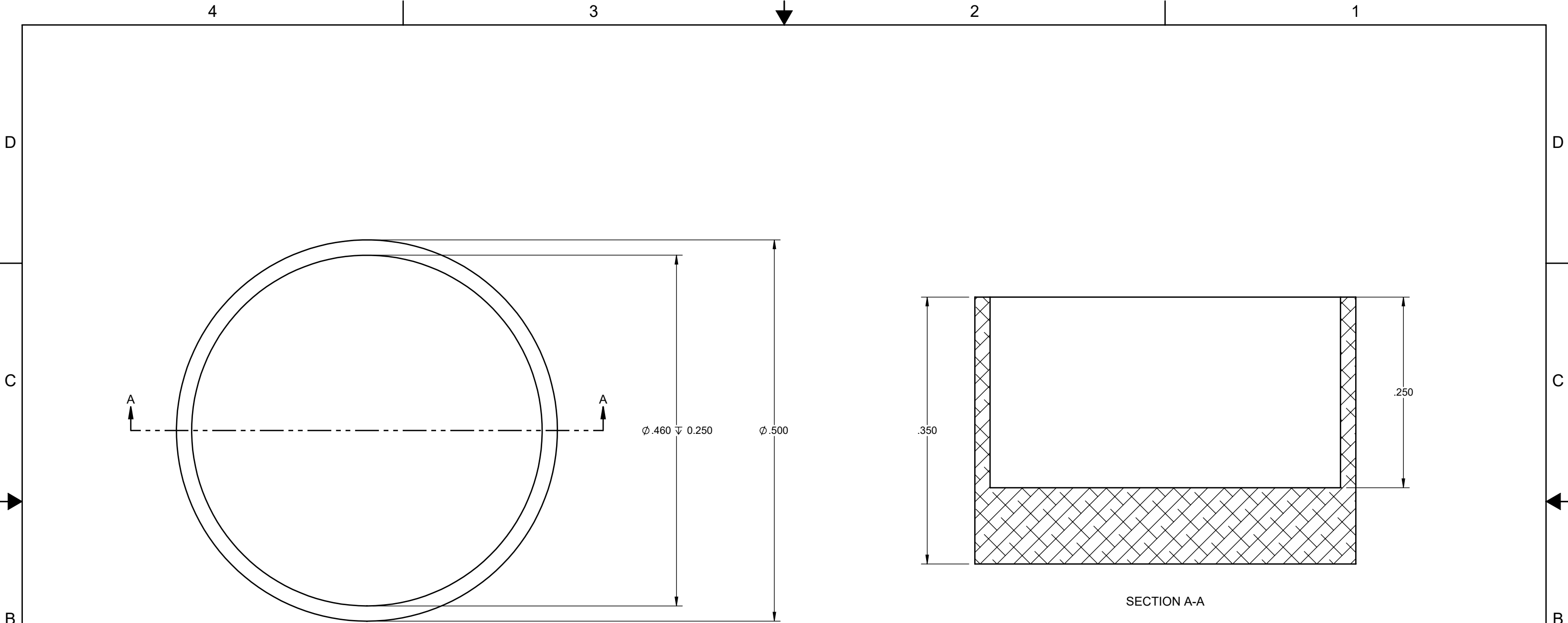
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| X1 | -- | -- | -- | -- | -- |
| REV. | DESCRIPTION | ECO | MOD BY | APVD DATE | APVD BY |





- NOTES:
- 1. MATERIAL: 6061-T6 AL (UNS A96061)
 - 2. STOCK:
 - 3. FINISH:

| | | | | | | | | | | | | | | | | | | | | | |
|--|--------|--|------------|--|--------|-----------|------------|---------|-------|-------|-------|-----------|--|--|--|-------------|--|--|--|--|--|
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| DECIMALS | ANGLES | FRACTIONS | SURF FNISH | | | | | | | | | | | | | | | | | | |
| .X ± .1 | ±0.5° | ±1/32 | 125/√ | | | | | | | | | | | | | | | | | | |
| .XX ± .06 | | | | | | | | | | | | | | | | | | | | | |
| .XXX ± .008 | | | | | | | | | | | | | | | | | | | | | |
| CADD MAINTAINED DATA CHANGES SHALL BE INCORPORATED ELECTRONICALLY BY THE DESIGN AUTHORITY | | THIRD ANGLE PROJECTION  | | TITLE <h1>CRANKPIN, 5/32 STEEL ROLLER</h1> | | | | | | | | | | | | | | | | | |
| DRAWN BY ME | | DATE 12 APR 2024 | | SIZE B | | | | | | | | | | | | | | | | | |
| CHECKED BY -- | | DATE -- | | DRAWING NO 100013 | | | | | | | | | | | | | | | | | |
| APPROVED BY -- | | DATE -- | | REVISION X1 | | | | | | | | | | | | | | | | | |
| | | | | SCALE 10:1 | | | | | | | | | | | | | | | | | |
| | | | | DWG REFERENCE 100013 | | | | | | | | | | | | | | | | | |
| | | | | SHEET 1 OF 1 | | | | | | | | | | | | | | | | | |

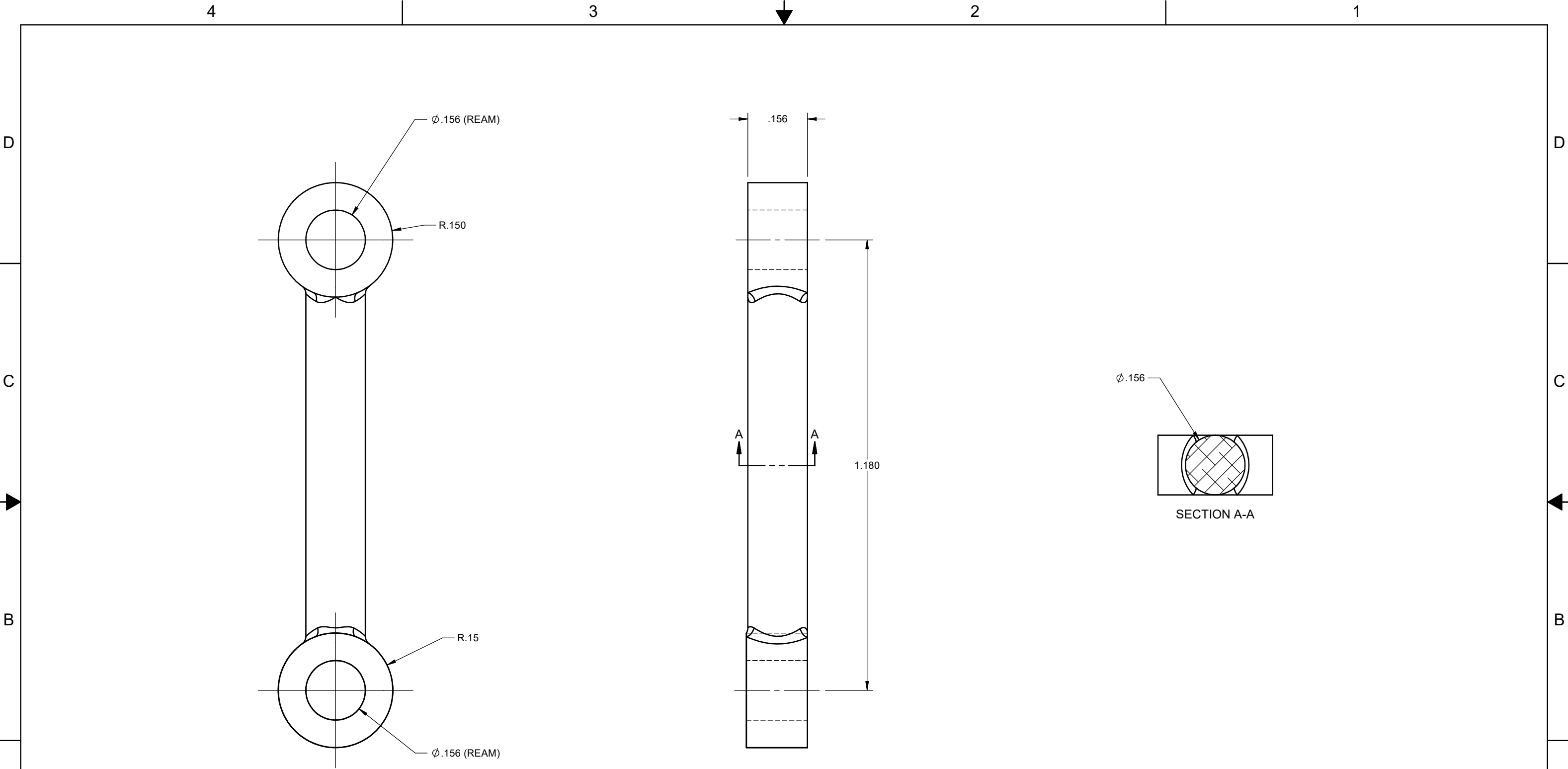


- NOTES:
- 1. MATERIAL: 6061-T6 AL (UNS A96061)
 - 2. STOCK:
 - 3. FINISH:

| | | | | | | | | | | | | | | | | | | | | | |
|--|--------|---|------------|---|--------|-----------|------------|--------|-------|-------|-------|----------|--|--|--|------------|--|--|--|--|--|
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| DECIMALS | ANGLES | FRACTIONS | SURF FNISH | | | | | | | | | | | | | | | | | | |
| .X ±.1 | ±0.5° | ±1/32 | 125/√ | | | | | | | | | | | | | | | | | | |
| .XX ±.06 | | | | | | | | | | | | | | | | | | | | | |
| .XXX ±.008 | | | | | | | | | | | | | | | | | | | | | |
| CADD MAINTAINED DATA CHANGES SHALL BE INCORPORATED ELECTRONICALLY BY THE DESIGN AUTHORITY | | THIRD ANGLE PROJECTION | | TITLE CONTRA-PISTON, CAST IRON | | | | | | | | | | | | | | | | | |
| DESIGNED BY ME | | DATE 12 APR 24 | | SIZE B | | | | | | | | | | | | | | | | | |
| DRAWN BY ME | | DATE 12 APR 24 | | DRAWING NO 100005 | | | | | | | | | | | | | | | | | |
| CHECKED BY -- | | DATE -- | | REVISION X1 | | | | | | | | | | | | | | | | | |
| APPROVED BY -- | | DATE -- | | SHEET 1 OF 1 | | | | | | | | | | | | | | | | | |
| SCALE 8:1 | | DWG REFERENCE 100005 | | | | | | | | | | | | | | | | | | | |

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| X1 | -- | -- | -- | -- | -- |
| REV. | DESCRIPTION | ECO | MOD BY | APVD DATE | APVD BY |





- NOTES:
1. MATERIAL: 6061-T6 AL (UNS A96061)
 2. STOCK:
 3. FINISH:

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UNLESS OTHERWISE SPECIFIED:

INTERPRET PER ASME Y14.100-2017
ALL DIMENSIONS ARE IN INCHES.

| DECIMALS | ANGLES | FRACTIONS | SURF FNISH |
|-------------------------------------|--------|-----------|------------|
| .X ± .1 .XX ± .06 .XXX ± .008 | ±0.5° | ±1/32 | 125/√ |

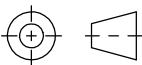
DO NOT SCALE DRAWING

| | | | |
|-------------|----|------|-----------|
| DESIGNED BY | ME | DATE | 12 APR 24 |
| DRAWN BY | ME | DATE | 12 APR 24 |
| CHECKED BY | -- | DATE | -- |
| APPROVED BY | -- | DATE | -- |

CADD
MAINTAINED DATA

CHANGES SHALL BE INCORPORATED ELECTRONICALLY BY THE DESIGN AUTHORITY

THIRD ANGLE
PROJECTION



MECHANICAL ENGINEERING TECHNOLOGY

4461 Interurban Road
Victoria, BC, Canada
V9E 2C1

Ph. (250) 370-3822
Fax. (250) 370-3898
www.camosun.ca

TITLE
CONROD, 2024 T3 ALUMINUM

| | | |
|---------------------|--------------------------------|------------------------|
| SIZE B | DRAWING NO 100007 | REVISION X1 |
| SCALE 4:1 | DWG REFERENCE 100007 | SHEET 1 OF 1 |

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| X1 | -- | -- | -- | -- | -- |
| REV. | DESCRIPTION | ECO | MOD BY | APVD DATE | APVD BY |