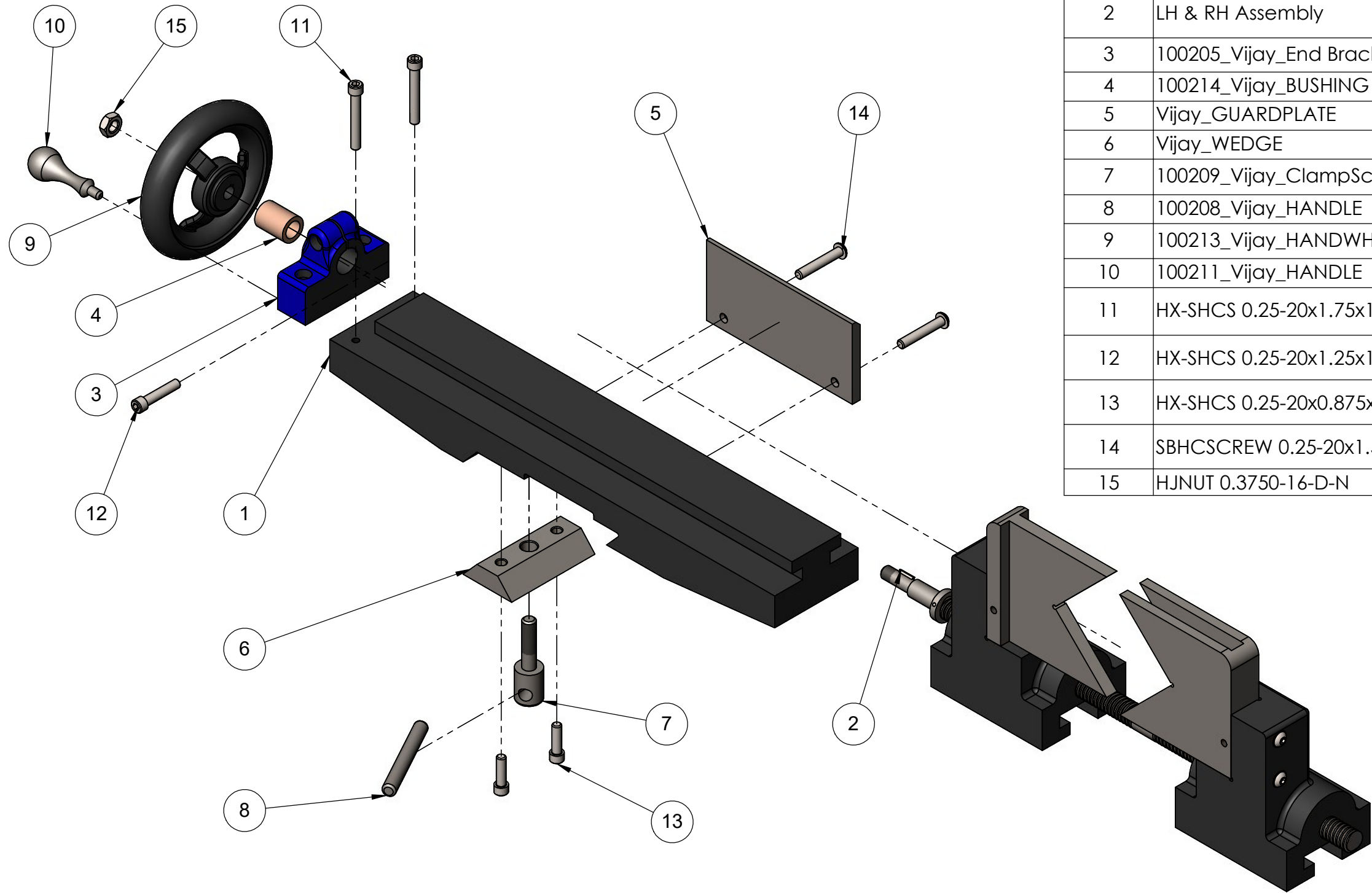


Final	A	CENTERING ATTACHEMENT
PART NUMBER	REV	DESCRIPTION

UNLESS OTHERWISE SPECIFIED DO NOT SCALE DRAWING INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994 DIMENSIONS ARE IN INCHES TOLERANCES APPLY AS SHOWN BELOW 0 PL DEC ± 0.03 1 PL DEC ± 0.02 2 PL DEC ± 0.01 3 PL DEC ± 0.005 ANGLES ± .1° SURFACE ROUGHNESS 63 µ in		SolidWorks MAINTAINED DATA CHANGES SHALL BE INCORPORATED ELECTRONICALLY BY THE DESIGN ACTIVITY		C CONESTOGA Connect Life and Learning 299 Doon Valley Drive, Kitchener, ON, N2G 4M4	
		PROPRIETARY NO PART OF THIS DOCUMENT MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM, WITHOUT THE WRITTEN PERMISSION OF Conestoga College		TITLE CENTERING ATTACHEMENT	
THIRD ANGLE PROJECTION 		CUSTOMER XYZ Company	PROJECT ASSEMBLY PROJECT	SIZE B	DRAWING NO Drawing_Sheets
DRAWN BY Vijay Prajwal		DATE 2020-04-16	APPROVED Prof. Flukerson	SCALE 1:3	REVISION A
CHECKED BY Prof. Flukerson		DATE 2020-04-20	DATE 2020-04-20	WEIGHT 40.414 lbs	SHEET 1 OF 8



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	100212_Vijay_BASE	BASE	1
2	LH & RH Assembly	SCREW SUB-ASSEMBLY	1
3	100205_Vijay_End Bracket	END BRACKET	1
4	100214_Vijay_BUSHING	BUSHING	1
5	Vijay_GUARDPLATE	GUARD PLATE	1
6	Vijay_WEDGE	WEDGE	1
7	100209_Vijay_ClampScrew	CLAMP SCREW	1
8	100208_Vijay_HANDLE	HANDLE	1
9	100213_Vijay_HANDWHEEL	HANDWHEEL	1
10	100211_Vijay_HANDLE	HANDLE	1
11	HX-SHCS 0.25-20x1.75x1.25-N	1/4 x 1 3/4 Socket Head Cap Screw	2
12	HX-SHCS 0.25-20x1.25x1.25-N	1/4 - 20 X 1 1/4 SHCS	1
13	HX-SHCS 0.25-20x0.875x0.875-N	1/4 - 20 X 7/8 SHCS	2
14	SBHCSCREW 0.25-20x1.5-HX-N	1/4 - 20 X 1 1/2 SBHCS	2
15	HJNUT 0.3750-16-D-N	3/8 - 16 HJNUT	1

200101	A	CENTERING ATTACHEMENT
PART NUMBER	REV	DESCRIPTION

UNLESS OTHERWISE SPECIFIED

DO NOT SCALE DRAWING

INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994

DIMENSIONS ARE IN INCHES

TOLERANCES APPLY AS SHOWN BELOW

0 PL DEC	± 0.2
1 PL DEC	± 0.1
2 PL DEC	± 0.01
3 PL DEC	± 0.005
ANGLES	± .1°
SURFACE ROUGHNESS	32 µ in


THIRD ANGLE PROJECTION

SolidWorks MAINTAINED DATA CHANGES SHALL BE INCORPORATED ELECTRONICALLY BY THE DESIGN ACTIVITY

PROPRIETARY

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CUSTOMER	XYZ Company		
PROJECT	ASSEMBLY PROJECT		
DRAWN BY	Vijay Prajwal	DATE	2020-04-16
CHECKED BY	Prof. Flukerson	DATE	2020-04-20
APPROVED	Prof. Flukerson	DATE	2020-04-20



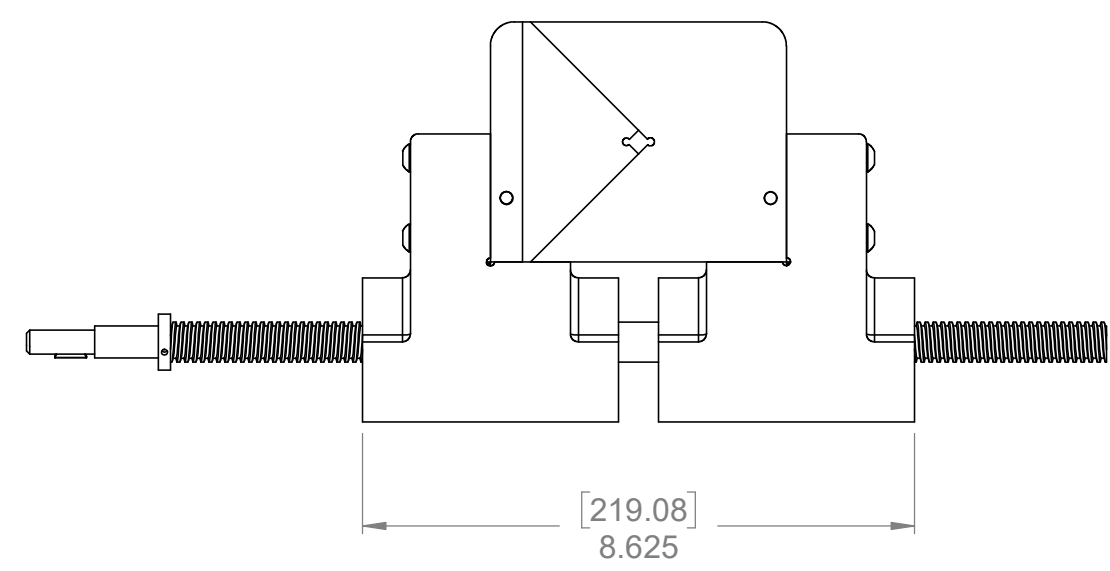
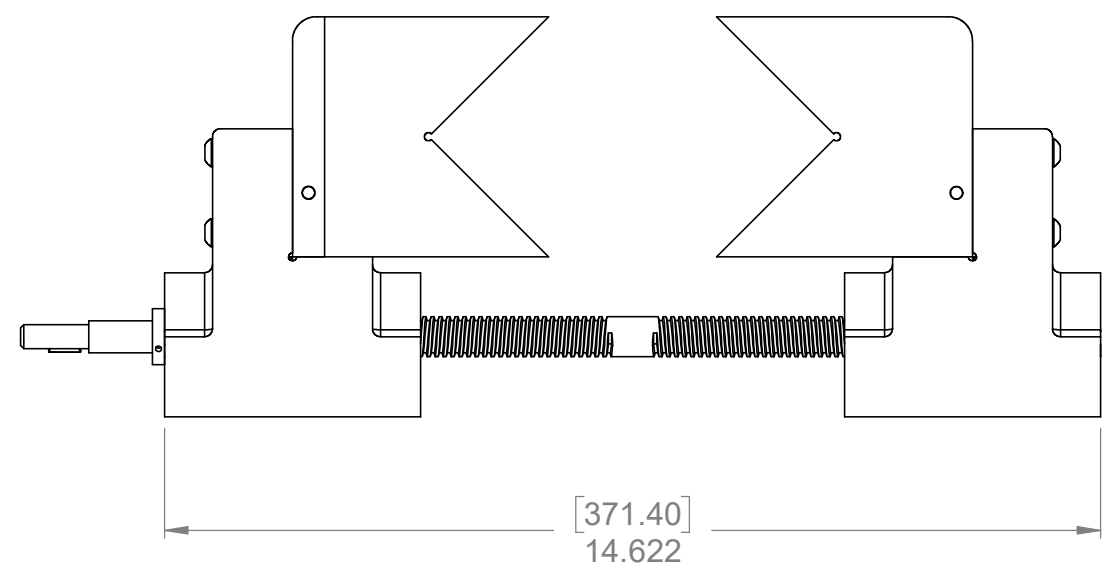
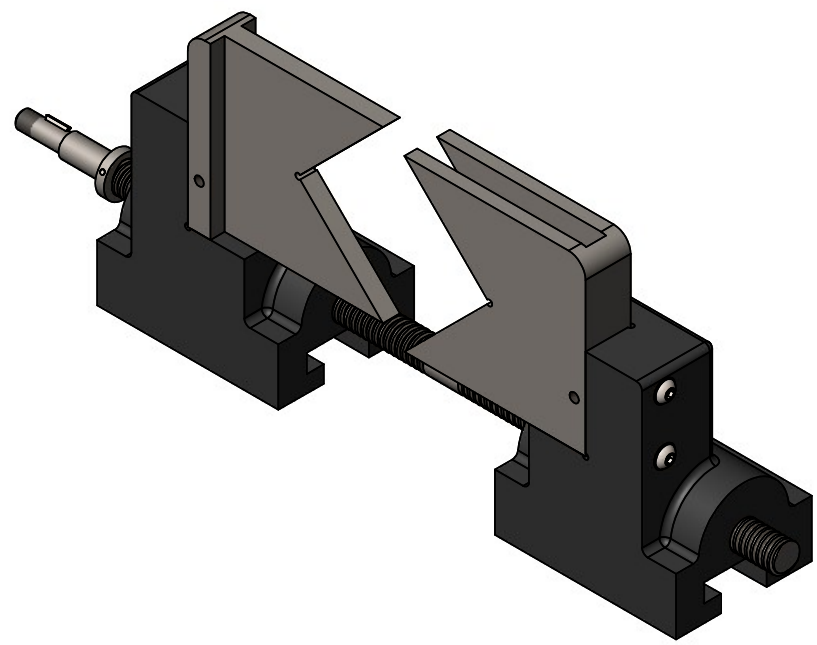
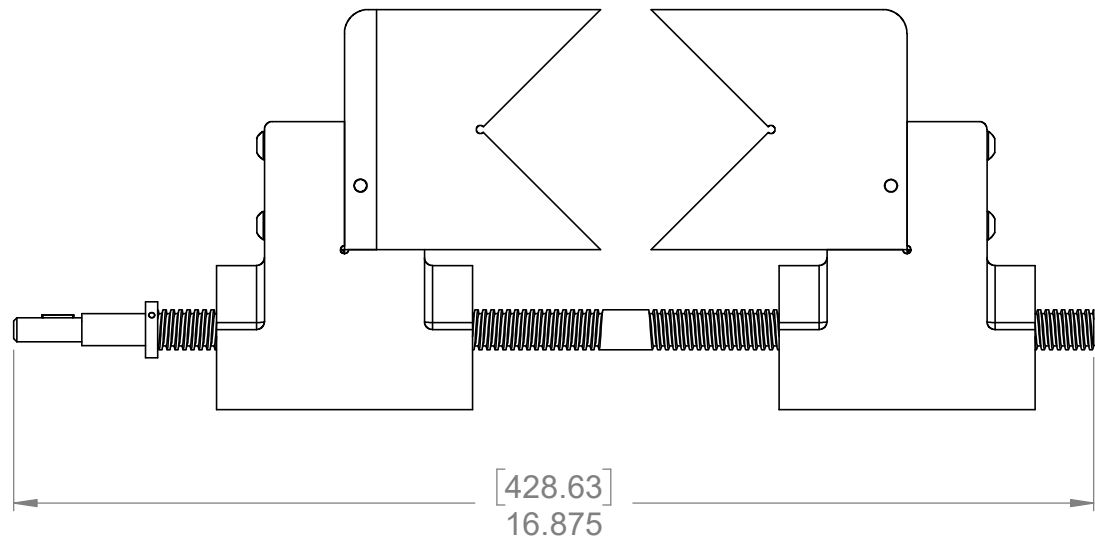
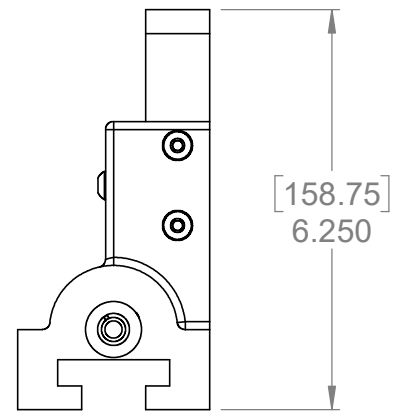
CONESTOGA
Connect Life and Learning

299 Doon Valley Drive, Kitchener, ON, N2G 4M4

TITLE

CENTERING ATTACHEMENT

SIZE	DRAWING NO	REVISION		
B		A		
SCALE	1:3	WEIGHT	40.414 lbs	SHEET 2 OF 8



JAW'S FULLY EXTENDED

JAW'S FULLY RETRACTED

LH & RH Assembly	A	SCREW SUB-ASSEMBLY
PART NUMBER	REV	DESCRIPTION

UNLESS OTHERWISE SPECIFIED

DO NOT SCALE DRAWING

INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994

DIMENSIONS ARE IN INCHES

TOLERANCES APPLY AS SHOWN BELOW

0 PL DEC	± 0.2
1 PL DEC	± 0.1
2 PL DEC	± 0.01
3 PL DEC	± 0.005
ANGLES	± .1°
SURFACE ROUGHNESS	32 µ in

THIRD ANGLE PROJECTION

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CUSTOMER	XYZ Company		
PROJECT	ASSEMBLY PROJECT		
DRAWN BY	Vijay Prajwal	DATE	2020-04-16
CHECKED BY	Prof. Flukerson	DATE	2020-04-20
APPROVED	Prof. Flukerson	DATE	2020-04-20

CONESTOGA
Connect Life and Learning

299 Doon Valley Drive, Kitchener, ON, N2G 4M4

TITLE

SCREW SUB-ASSEMBLY

SIZE	DRAWING NO	REVISION
B		
SCALE	1:3	WEIGHT 17.750 lbs

SHEET 3 OF 8

ITEM NO.	PART NUMBER	DESCRIPTION	
1	100210_Vijay_SCREW	SCREW	1
2	LH_JAW_Assembly	JAW LH SUB-ASSEMBLY	1
3	RH_JAW_Assembly	JAW RH SUB-ASSEMBLY	1
4	100215_Vijay_Collar	COLLAR	1
5	TP #00000x0.75	#00000 x 0.75 Tapper Pin	1
6	AI KEYS Woodruff R B17.2-204	#204 WoodRuff Keyway	1

200102

A

SCREW SUB-ASSEMBLY

PART NUMBER

REV

DESCRIPTION

UNLESS OTHERWISE SPECIFIED

DO NOT SCALE DRAWING

INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994

DIMENSIONS ARE IN INCHES

TOLERANCES APPLY AS SHOWN BELOW

0 PL DEC ± 0.2

1 PL DEC ± 0.1

2 PL DEC ± 0.01

3 PL DEC ± 0.005

ANGLES ± .1°

SURFACE ROUGHNESS 32 µ in

THIRD ANGLE PROJECTION

SolidWorks MAINTAINED DATA
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CUSTOMER
XYZ Company

PROJECT
ASSEMBLY PROJECT

DRAWN BY
Vijay Prajwal

CHECKED BY
Prof. Flukerson

APPROVED
Prof. Flukerson

DATE
2020-04-16

DATE
2020-04-20

DATE
2020-04-20

C

CONESTOGA

Connect Life and Learning

299 Doon Valley Drive, Kitchener, ON, N2G 4M4

TITLE

SCREW SUB-ASSEMBLY

SIZE
B

DRAWING NO

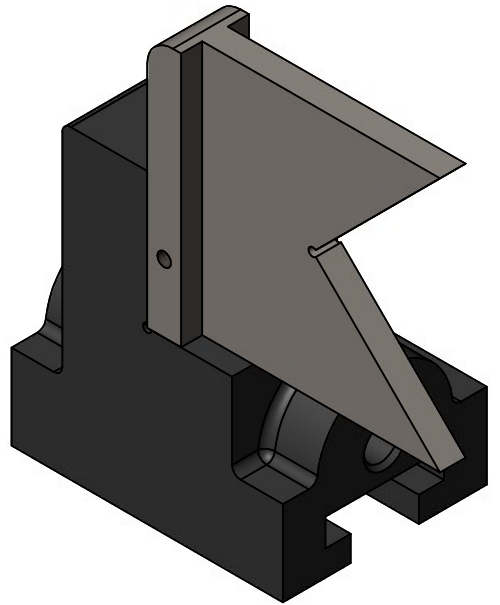
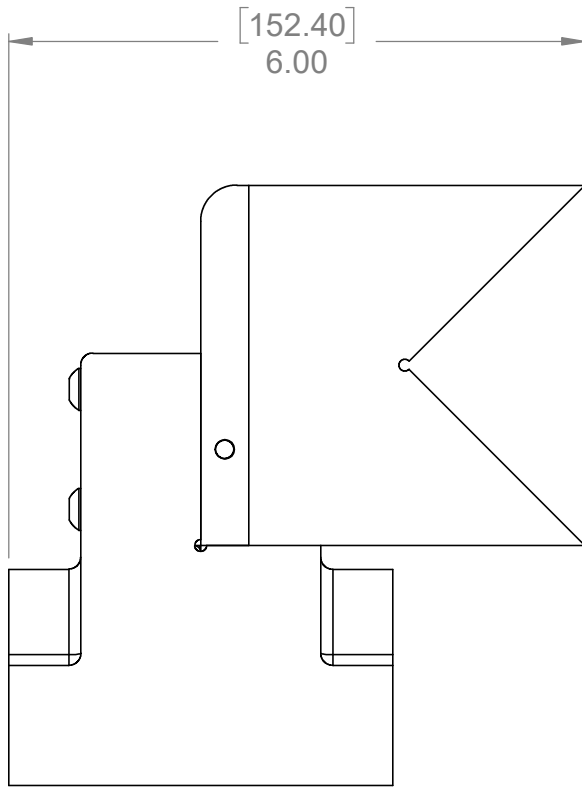
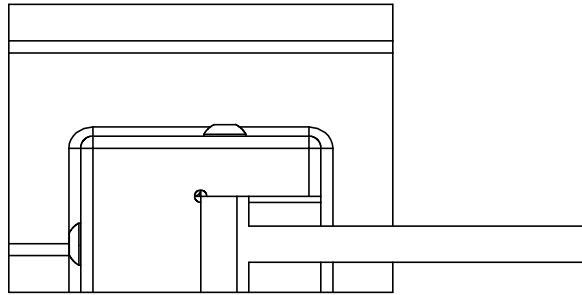
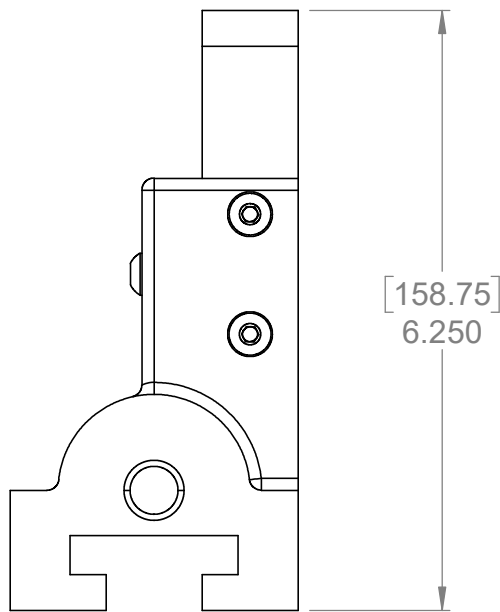
SCALE
1:3

WEIGHT
17.750 lbs

REVISION

Drawing_Sheets A

SHEET 4 OF 8



200104	A	JAW RH SUB-ASSEMBLY
PART NUMBER	REV	DESCRIPTION

UNLESS OTHERWISE SPECIFIED

DO NOT SCALE DRAWING

INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994

DIMENSIONS ARE IN INCHES

TOLERANCES APPLY AS SHOWN BELOW

0 PL DEC	± 0.2
1 PL DEC	± 0.1
2 PL DEC	± 0.01
3 PL DEC	± 0.005
ANGLES	± .1°
SURFACE ROUGHNESS	32 µ in

THIRD ANGLE PROJECTION

SolidWorks MAINTAINED DATA
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CUSTOMER XYZ Company	
PROJECT ASSEMBLY PROJECT	
DRAWN BY Vijay Prajwal	DATE 2020-04-16
CHECKED BY Prof. Flukerson	DATE 2020-04-20
APPROVED Prof. Flukerson	DATE 2020-04-20

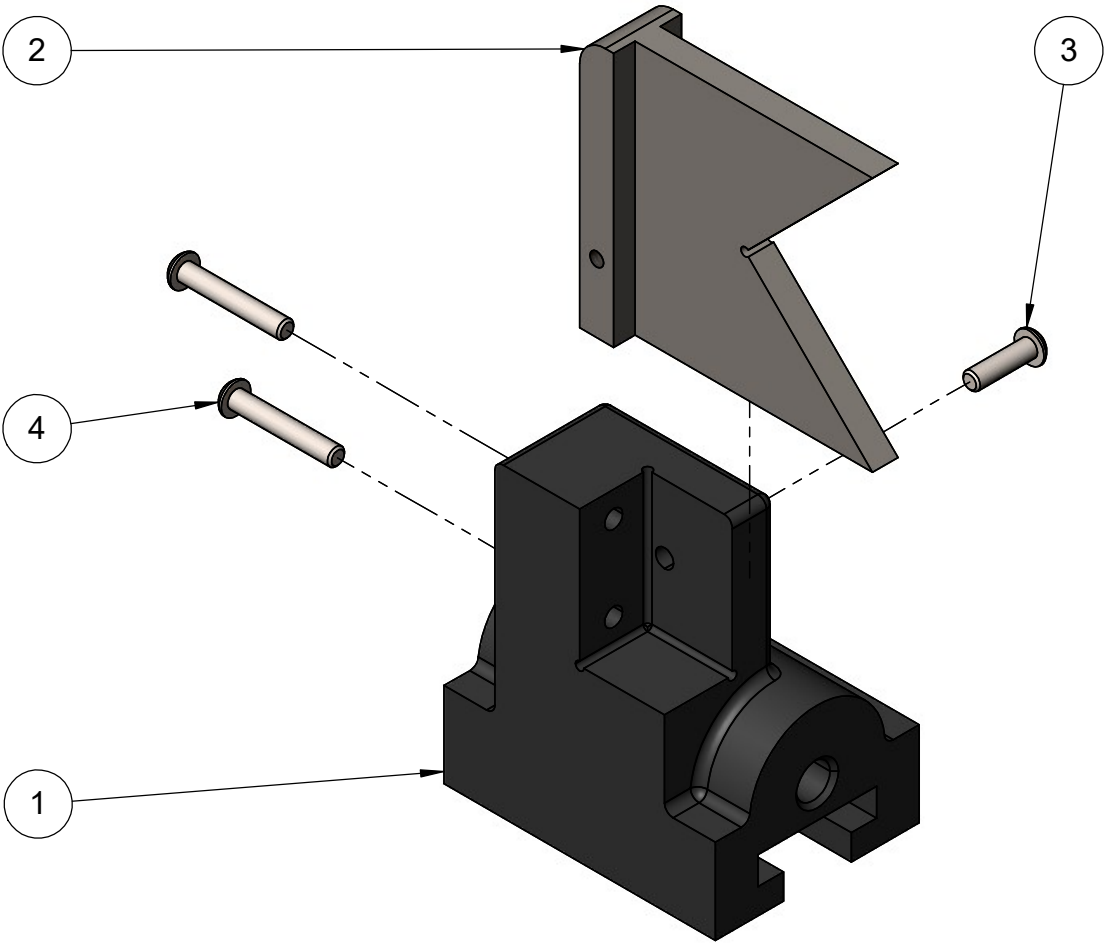
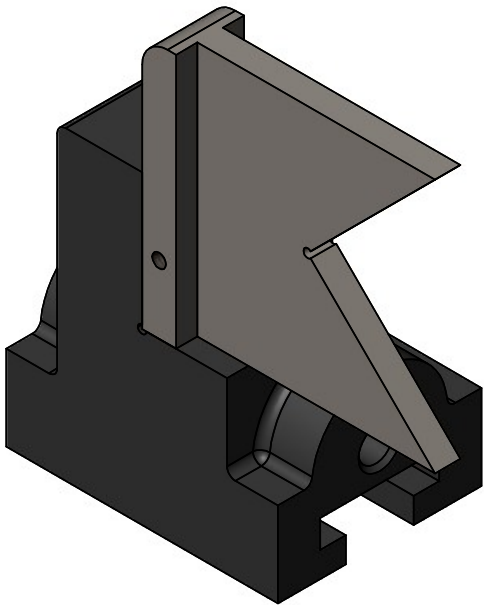
CONESTOGA
Connect Life and Learning

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TITLE
JAW RH SUB-ASSEMBLY

SIZE B	DRAWING NO.	REVISION A
SCALE 1:2	WEIGHT 7.874 lbs	SHEET 5 OF 8

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	100207_Vijay_RIGHT-HAND JAW	Right-Hand Jaw Support	1
2	Vijay_RIGHT JAW	Right Jaw	1
3	SBHCSCREW 0.25-20x0.875-HX-N	1/4 - 20 X 7/8 SBHCS	1
4	SBHCSCREW 0.25-20x1.5-HX-N	1/4 - 20 X 1 1/2 SBHCS	2



RH_JAW_Assembly A	JAW RH SUB-ASSEMBLY
PART NUMBER	REV DESCRIPTION

UNLESS OTHERWISE SPECIFIED

DO NOT SCALE DRAWING

INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994

DIMENSIONS ARE IN INCHES

TOLERANCES APPLY AS SHOWN BELOW

0 PL DEC	± 0.2
1 PL DEC	± 0.1
2 PL DEC	± 0.01
3 PL DEC	± 0.005
ANGLES	± .1°
SURFACE ROUGHNESS	32 µ in

THIRD ANGLE PROJECTION

SolidWorks MAINTAINED DATA
CHANGES SHALL BE INCORPORATED
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CUSTOMER	XYZ Company		
PROJECT	ASSEMBLY PROJECT		
DRAWN BY	Vijay Prajwal	DATE	2020-04-16
CHECKED BY	Prof. Flukerson	DATE	2020-04-20
APPROVED	Prof. Flukerson	DATE	2020-04-20

CONESTOGA
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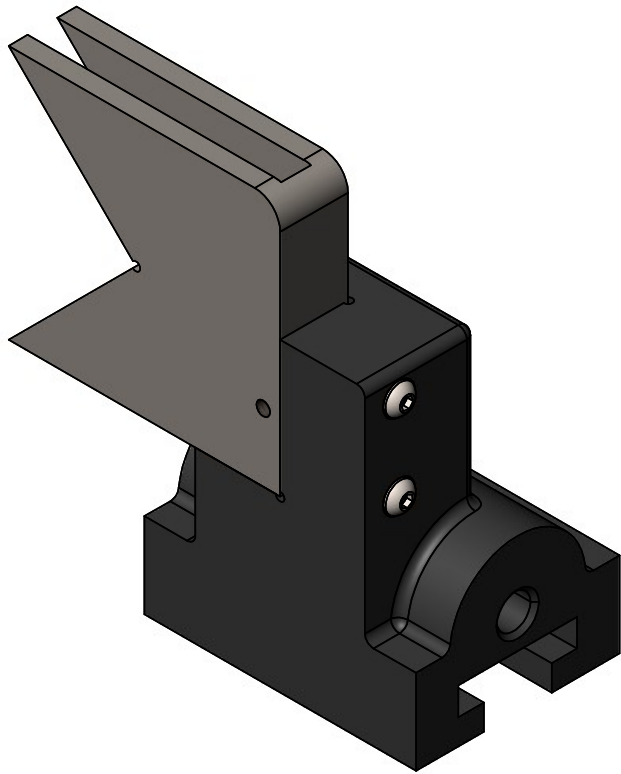
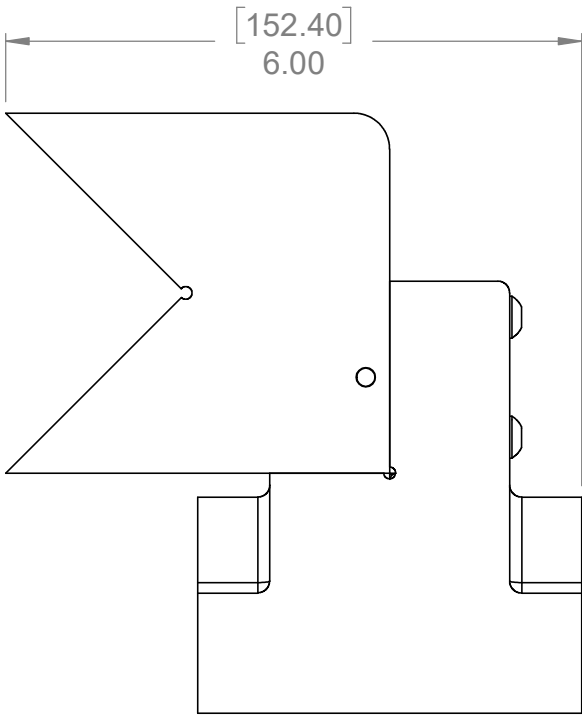
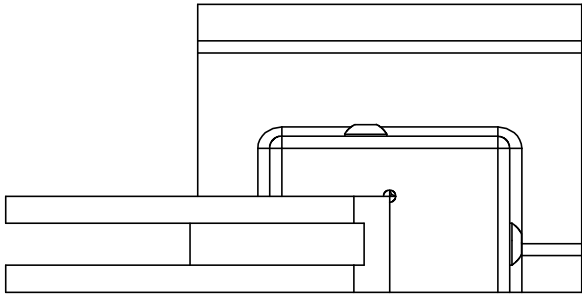
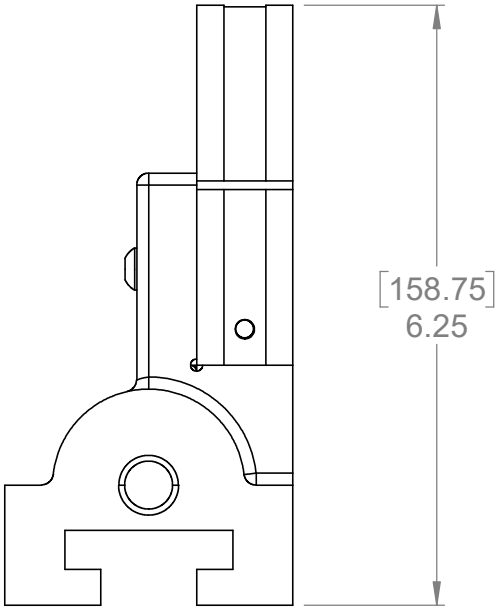
299 Doon Valley Drive, Kitchener, ON, N2G 4M4

TITLE

JAW RH SUB-ASSEMBLY

SIZE	DRAWING NO	REVISION
B		
SCALE	1:2	WEIGHT 7.874 lbs

SHEET 6 OF 8



200103	A	JAW LH SUB-ASSEMBLY
PART NUMBER	REV	DESCRIPTION

UNLESS OTHERWISE SPECIFIED

DO NOT SCALE DRAWING

INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994

DIMENSIONS ARE IN INCHES

TOLERANCES APPLY AS SHOWN BELOW

0 PL DEC	± 0.2
1 PL DEC	± 0.1
2 PL DEC	± 0.01
3 PL DEC	± 0.005
ANGLES	± .1°
SURFACE ROUGHNESS	32 µ in

THIRD ANGLE PROJECTION

SolidWorks MAINTAINED DATA
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CUSTOMER	XYZ Company		
PROJECT	ASSEMBLY PROJECT		
DRAWN BY	Vijay Prajwal	DATE	2020-04-16
CHECKED BY	Prof. Flukerson	DATE	2020-04-20
APPROVED	Prof. Flukerson	DATE	2020-04-20

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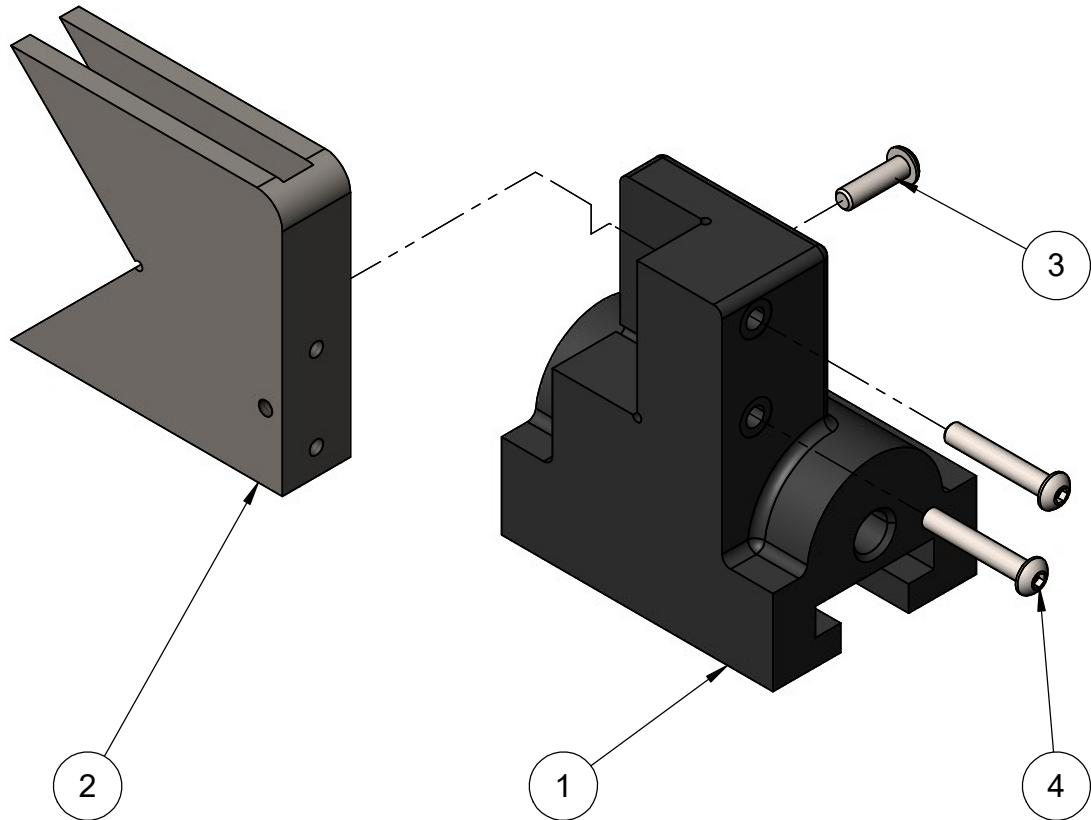
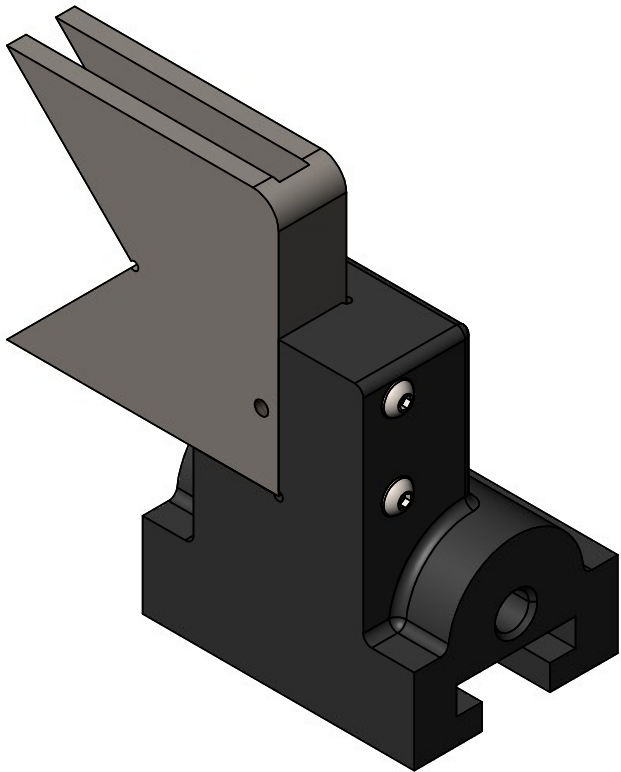
299 Doon Valley Drive, Kitchener, ON, N2G 4M4

TITLE

JAW LH SUB-ASSEMBLY

SIZE	DRAWING NO	REVISION
B		A
SCALE	1:2	WEIGHT 8.705 lbs
SHEET 7 OF 8		

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	100206_Vijay_LEFT-HAND JAW	Left-Hand Jaw Support	1
2	Vijay_LEFTJAW	LEFT JAW	1
3	SBHCSCREW 0.25-20x0.875-HX-N	1/4 - 20 X 7/8 SBHCS	1
4	SBHCSCREW 0.25-20x1.5-HX-N	1/4 - 20 X 1 1/2 SBHCS	2



LH_JAW_Assembly	A	JAW LH SUB-ASSEMBLY
PART NUMBER	REV	DESCRIPTION

UNLESS OTHERWISE SPECIFIED DO NOT SCALE DRAWING INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994 DIMENSIONS ARE IN INCHES TOLERANCES APPLY AS SHOWN BELOW 0 PL DEC ± 0.2 1 PL DEC ± 0.1 2 PL DEC ± 0.01 3 PL DEC ± 0.005 ANGLES ± .1° SURFACE ROUGHNESS 32 µ in		SolidWorks MAINTAINED DATA CHANGES SHALL BE INCORPORATED ELECTRONICALLY BY THE DESIGN ACTIVITY PROPRIETARY NO PART OF THIS DOCUMENT MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM, WITHOUT THE WRITTEN PERMISSION OF Conestoga College CUSTOMER: XYZ Company PROJECT: ASSEMBLY PROJECT		CONESTOGA Connect Life and Learning 299 Doon Valley Drive, Kitchener, ON, N2G 4M4	
THIRD ANGLE PROJECTION 		DRAWN BY: Vijay Prajwal CHECKED BY: Prof. Flukerson APPROVED: Prof. Flukerson	DATE: 2020-04-16 DATE: 2020-04-20 DATE: 2020-04-20	TITLE JAW LH SUB-ASSEMBLY	
SIZE: B		DRAWING NO:		REVISION	
SCALE: 1:2		WEIGHT: 8.705 lbs		SHEET 8 OF 8	