

2

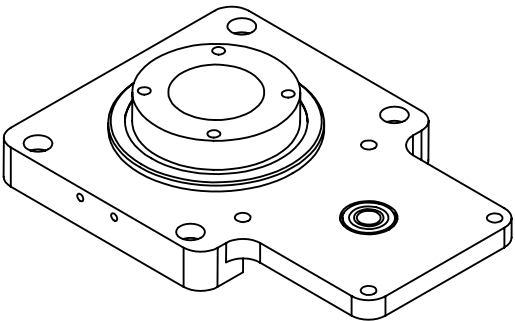
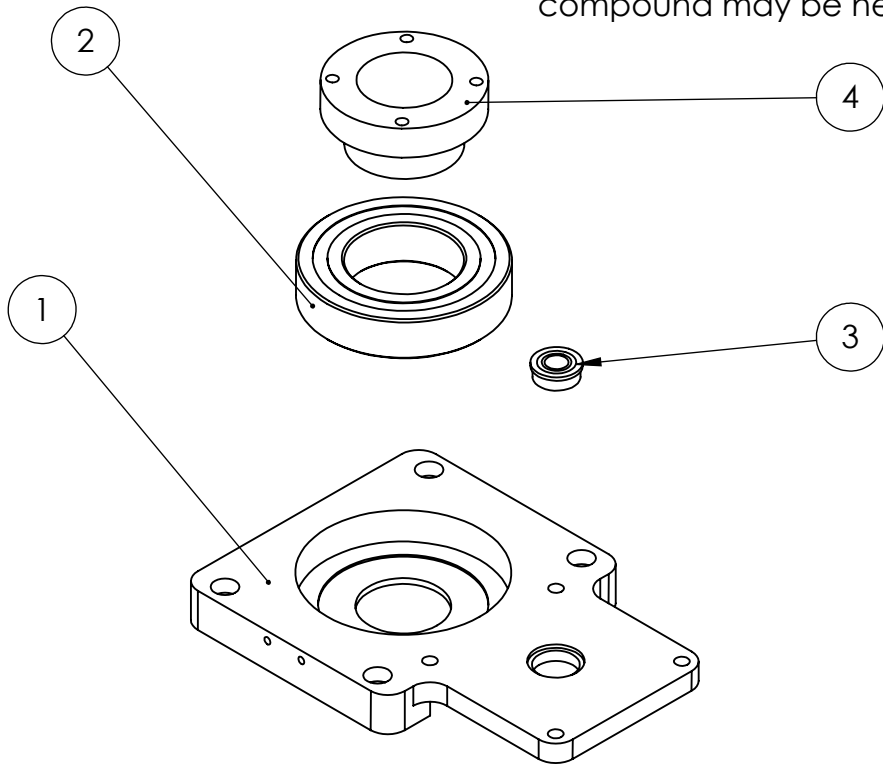
1

NOTE: The pressing of items 2 and 3 into item 1 should be completed using an arbor press. No retaining compound is necessary unless the press fit is poor. Item 4 may need to be pressed into item 2 as well, retaining compound may be necessary.

ITEM NO.	DESCRIPTION	QTY
1	Az Motor Holder	1
2	Az Main Bearing	1
3	1/2" Motor Bearing	1
4	Bearing Cylinder	1

B

B



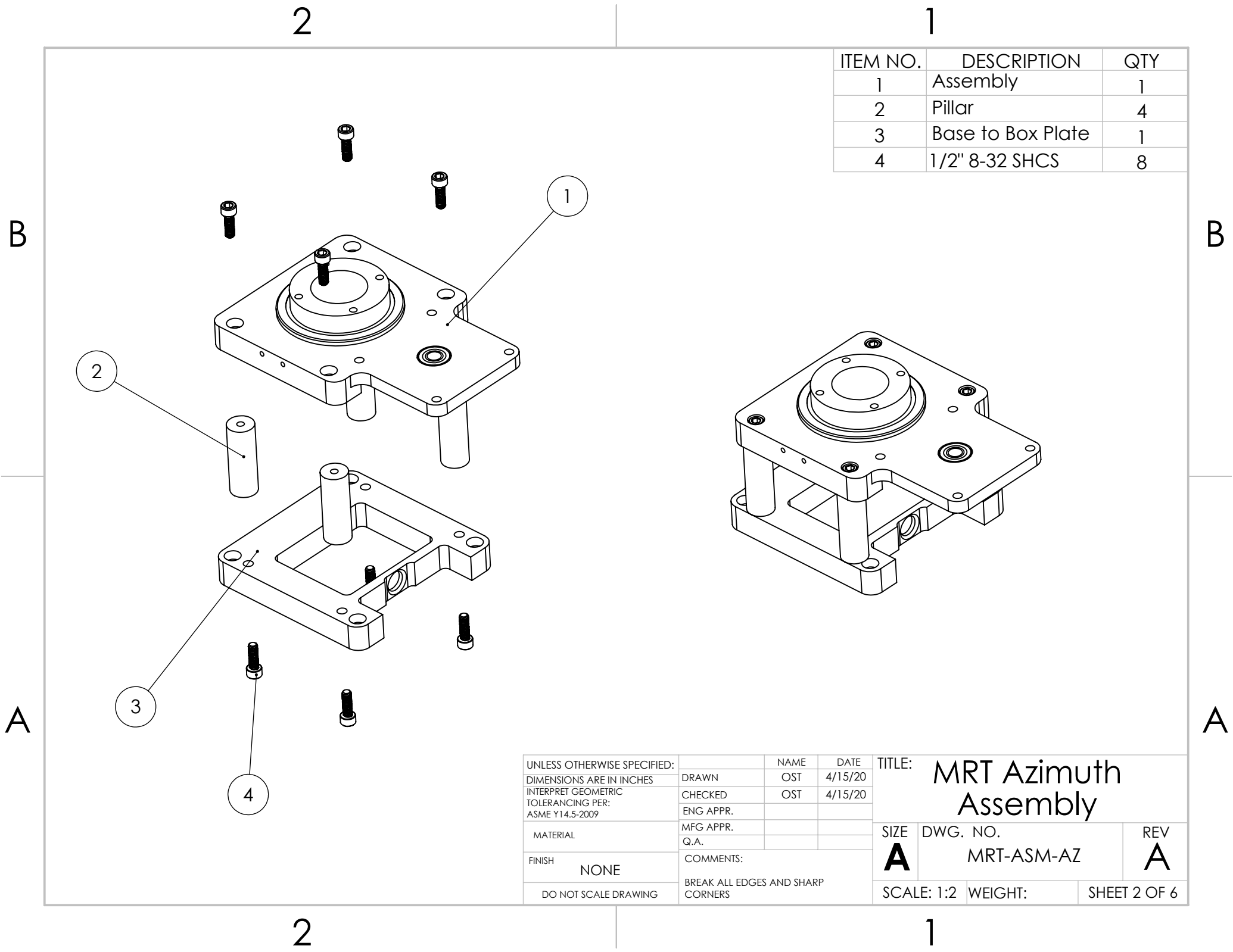
A

A

UNLESS OTHERWISE SPECIFIED:			NAME	DATE	TITLE: MRT Azimuth Assembly			
DIMENSIONS ARE IN INCHES		DRAWN	OST	4/15/20				
INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.5-2009		CHECKED	OST	4/15/20				
		ENG APPR.						
MATERIAL		MFG APPR.			SIZE A	DWG. NO. MRT-ASM-AZ		REV A
FINISH NONE		Q.A.						
DO NOT SCALE DRAWING		COMMENTS:			SCALE: 1:2 WEIGHT: SHEET 1 OF 6			
		BREAK ALL EDGES AND SHARP CORNERS						

2

1



ITEM NO.	DESCRIPTION	QTY
1	Assembly	1
2	Pillar	4
3	Base to Box Plate	1
4	1/2" 8-32 SHCS	8

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.5-2009	DRAWN	NAME OST	DATE 4/15/20
	CHECKED	OST	4/15/20
	ENG APPR.		
	MFG APPR.		
MATERIAL	Q.A.		
FINISH NONE	COMMENTS: BREAK ALL EDGES AND SHARP CORNERS		
DO NOT SCALE DRAWING			

TITLE: MRT Azimuth Assembly			
SIZE A	DWG. NO. MRT-ASM-AZ	REV A	
SCALE: 1:2	WEIGHT:	SHEET 2 OF 6	

2

1

NOTE: Not pictured is the #4-40 set screw required to secure item 2 to the motor shaft. Additionally, item 2 requires a secondary operation involving tapping a #4-40 thread in the middle of the hub.

ITEM NO.	DESCRIPTION	QTY
1	Assembly	1
2	Small Spur Gear	1
3	Small Az Gear Spacer	1
4	Stepper Motor	1
5	10 mm M5 x 0.8mm	4

1

2

3

4

5

NOTE: Thread motor wires through hole in base-to-box plate prior to installation

1

2

3

4

5

NOTE: Thread motor wires through hole in base-to-box plate prior to installation

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
INTERPRET GEOMETRIC
TOLERANCING PER:
ASME Y14.5-2009

MATERIAL

FINISH

DO NOT SCALE DRAWING

DRAWN

CHECKED

ENG APPR.

MFG APPR.

Q.A.

COMMENTS:

NAME

DATE

BREAK ALL EDGES AND SHARP
CORNERS

TITLE:

SIZE

SCALE: 1:2

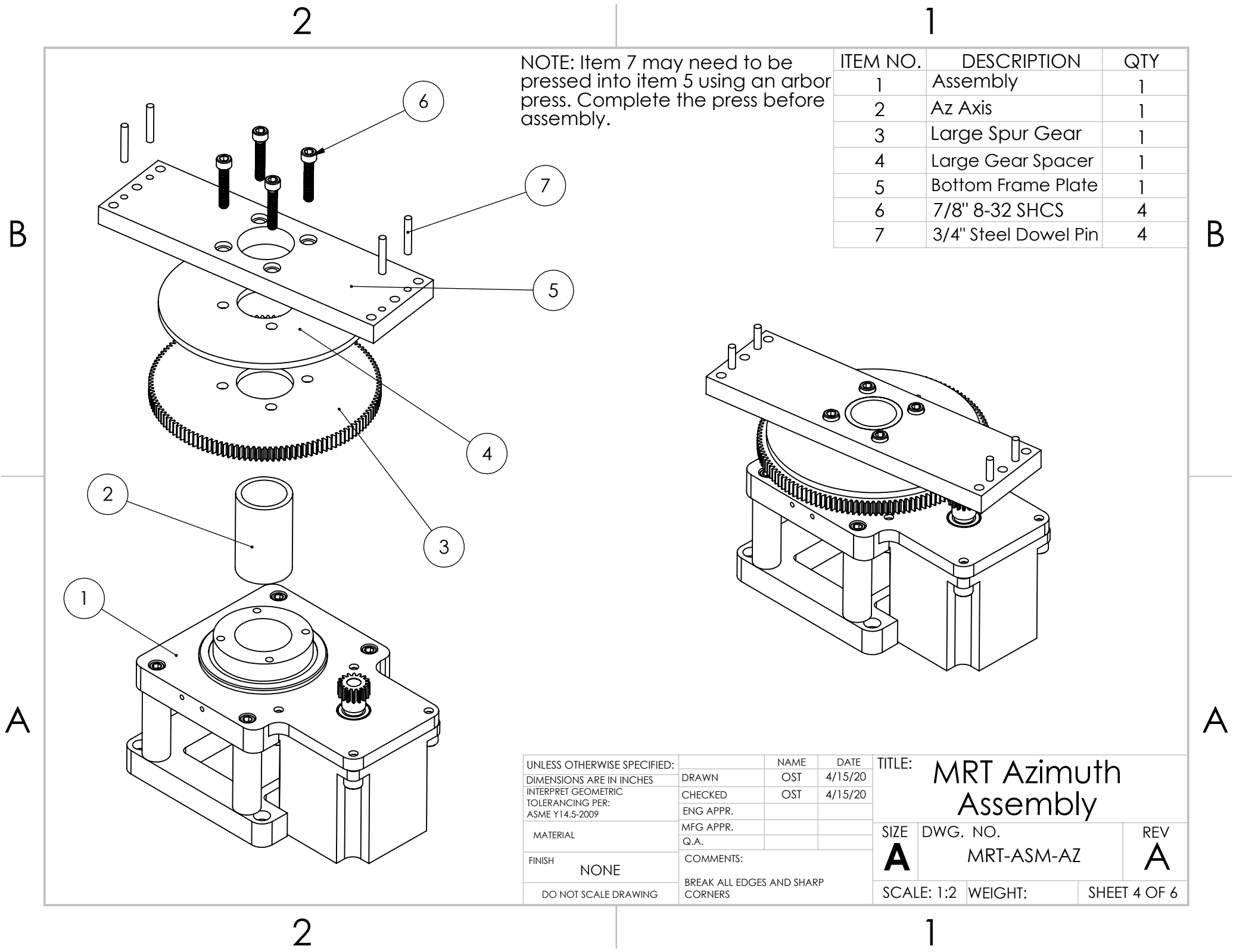
WEIGHT:

SHEET 3 OF 6

MRT Azimuth
Assembly

DWG. NO.
MRT-ASM-AZ

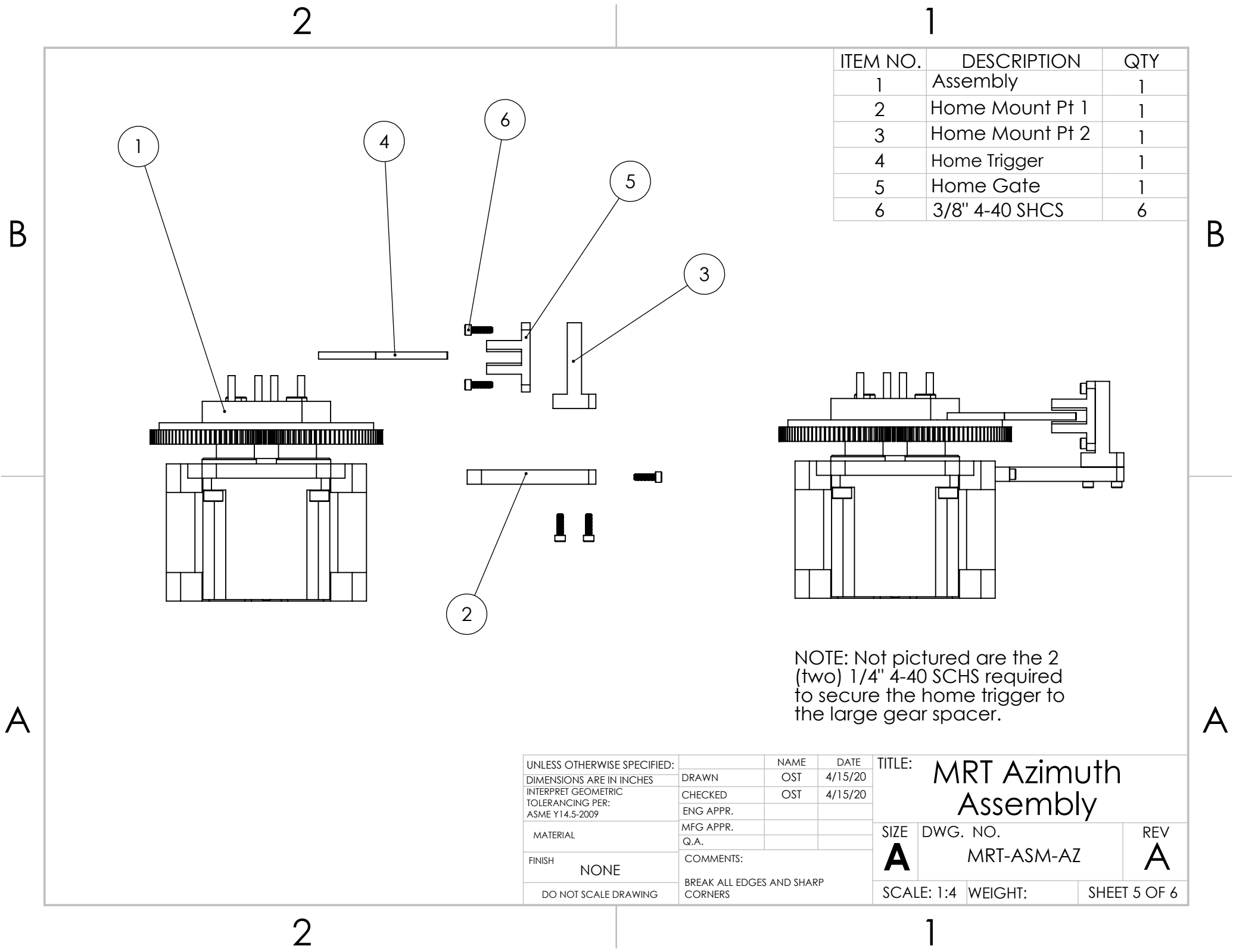
REV
A



NOTE: Item 7 may need to be pressed into item 5 using an arbor press. Complete the press before assembly.

ITEM NO.	DESCRIPTION	QTY
1	Assembly	1
2	Az Axis	1
3	Large Spur Gear	1
4	Large Gear Spacer	1
5	Bottom Frame Plate	1
6	7/8" 8-32 SHCS	4
7	3/4" Steel Dowel Pin	4

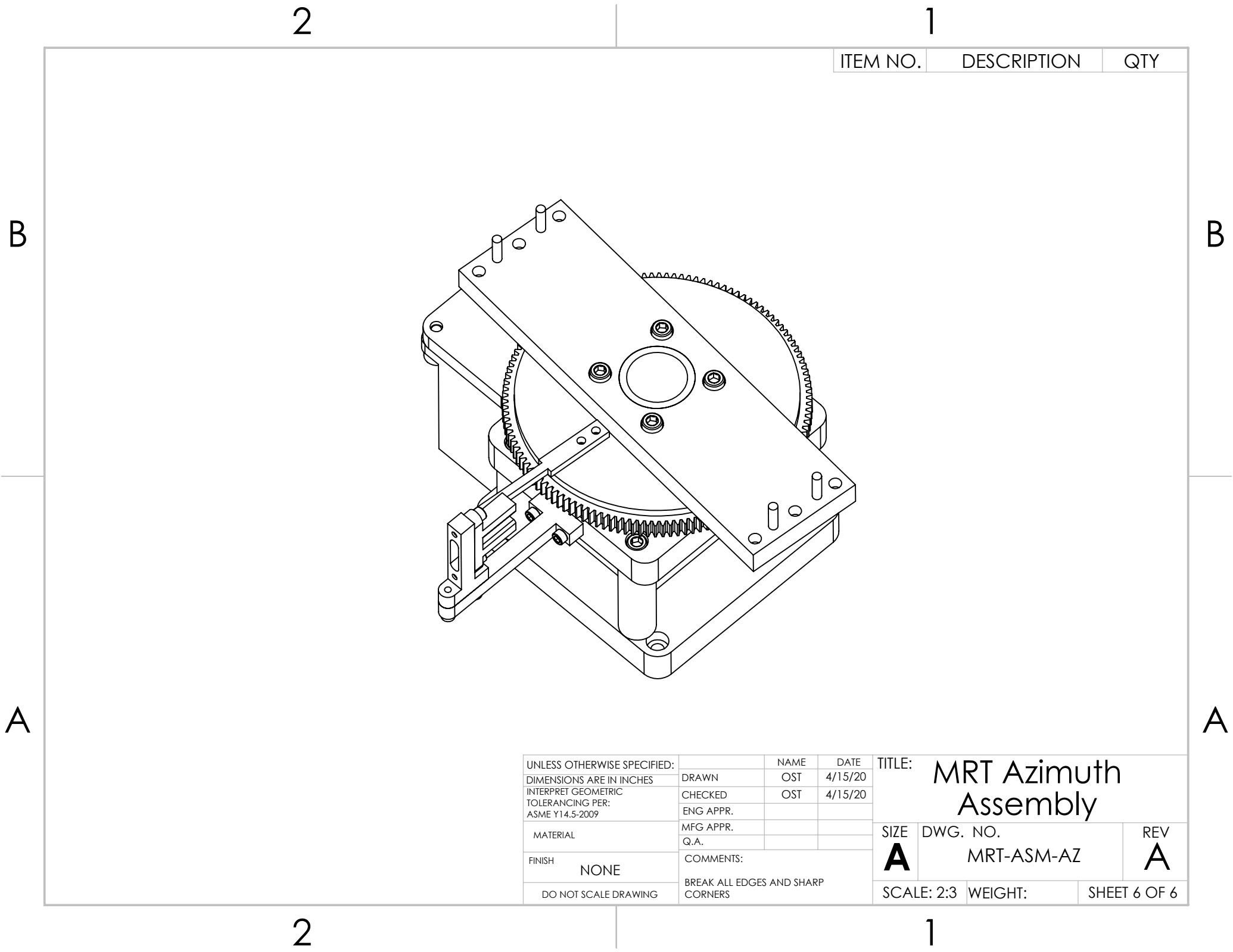
UNLESS OTHERWISE SPECIFIED:		NAME		DATE		TITLE: MRT Azimuth Assembly							
DIMENSIONS ARE IN INCHES		DRAWN		OST						4/15/20			
INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.5-2009		CHECKED		OST						4/15/20			
		ENG APPR.											
MATERIAL		MFG APPR.						SIZE		DWG. NO.		REV	
NONE		Q.A.						A		MRT-ASM-AZ		A	
FINISH		COMMENTS:											
DO NOT SCALE DRAWING		BREAK ALL EDGES AND SHARP CORNERS						SCALE: 1:2		WEIGHT:		SHEET 4 OF 6	



ITEM NO.	DESCRIPTION	QTY
1	Assembly	1
2	Home Mount Pt 1	1
3	Home Mount Pt 2	1
4	Home Trigger	1
5	Home Gate	1
6	3/8" 4-40 SHCS	6

NOTE: Not pictured are the 2
(two) 1/4" 4-40 SCHS required
to secure the home trigger to
the large gear spacer.

UNLESS OTHERWISE SPECIFIED:		NAME		DATE		TITLE: MRT Azimuth Assembly							
DIMENSIONS ARE IN INCHES		DRAWN		OST						4/15/20			
INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.5-2009		CHECKED		OST						4/15/20			
		ENG APPR.											
MATERIAL		MFG APPR.						SIZE		DWG. NO.		REV	
		Q.A.						A		MRT-ASM-AZ		A	
FINISH		NONE		COMMENTS:									
DO NOT SCALE DRAWING		BREAK ALL EDGES AND SHARP CORNERS						SCALE: 1:4		WEIGHT:		SHEET 5 OF 6	



ITEM NO.	DESCRIPTION	QTY
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UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.5-2009	DRAWN	NAME OST	DATE 4/15/20
	CHECKED	OST	4/15/20
	ENG APPR.		
MATERIAL	MFG APPR.		
	Q.A.		
FINISH NONE	COMMENTS: BREAK ALL EDGES AND SHARP CORNERS		
DO NOT SCALE DRAWING			

TITLE: MRT Azimuth Assembly			
SIZE A	DWG. NO. MRT-ASM-AZ	REV A	
SCALE: 2:3	WEIGHT:	SHEET 6 OF 6	