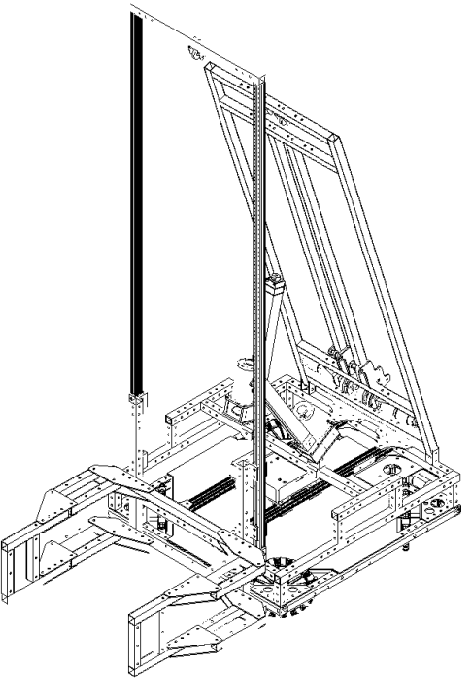
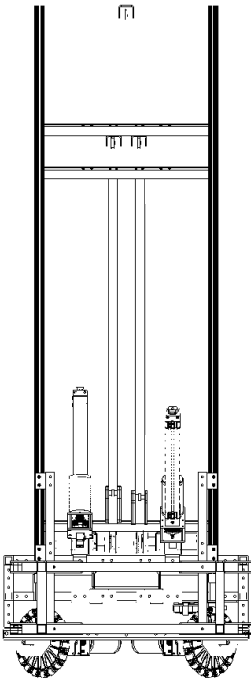
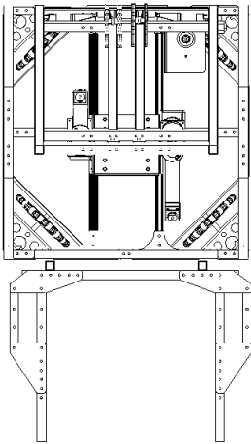
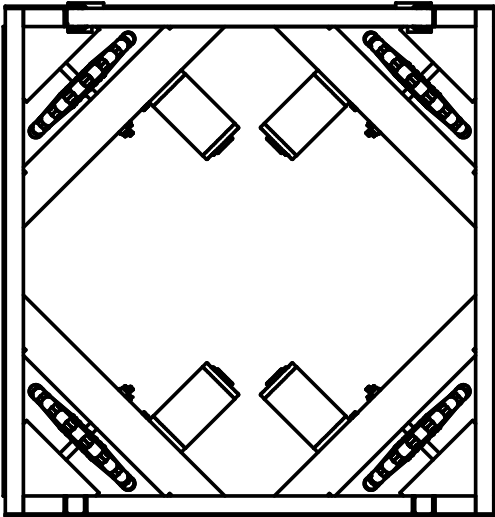
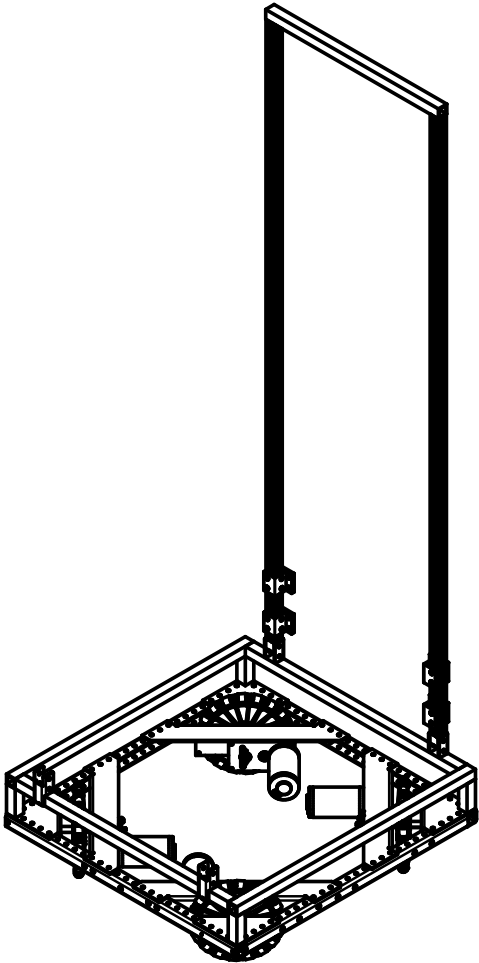


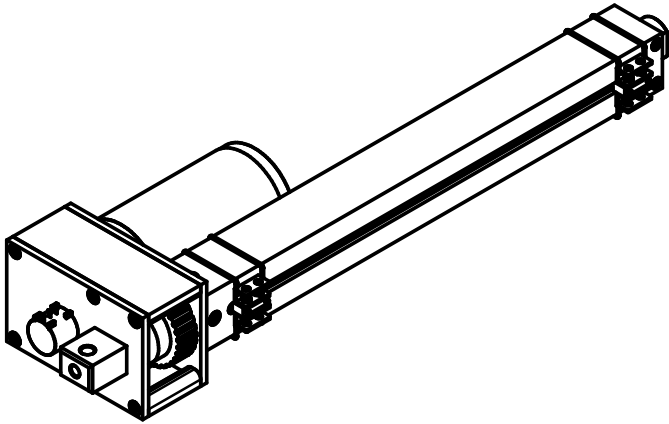
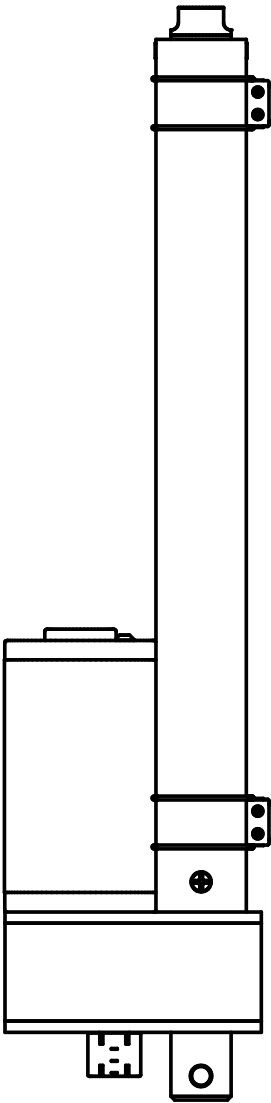
DRAWN Master	1/15/2015	TITLE "Conveyor Belt"		
CHECKED				
QA				
MFG				
APPROVED		SIZE A4		
		DWG NO	MMBOT	REV
		SCALE		SHEET 1 OF 33



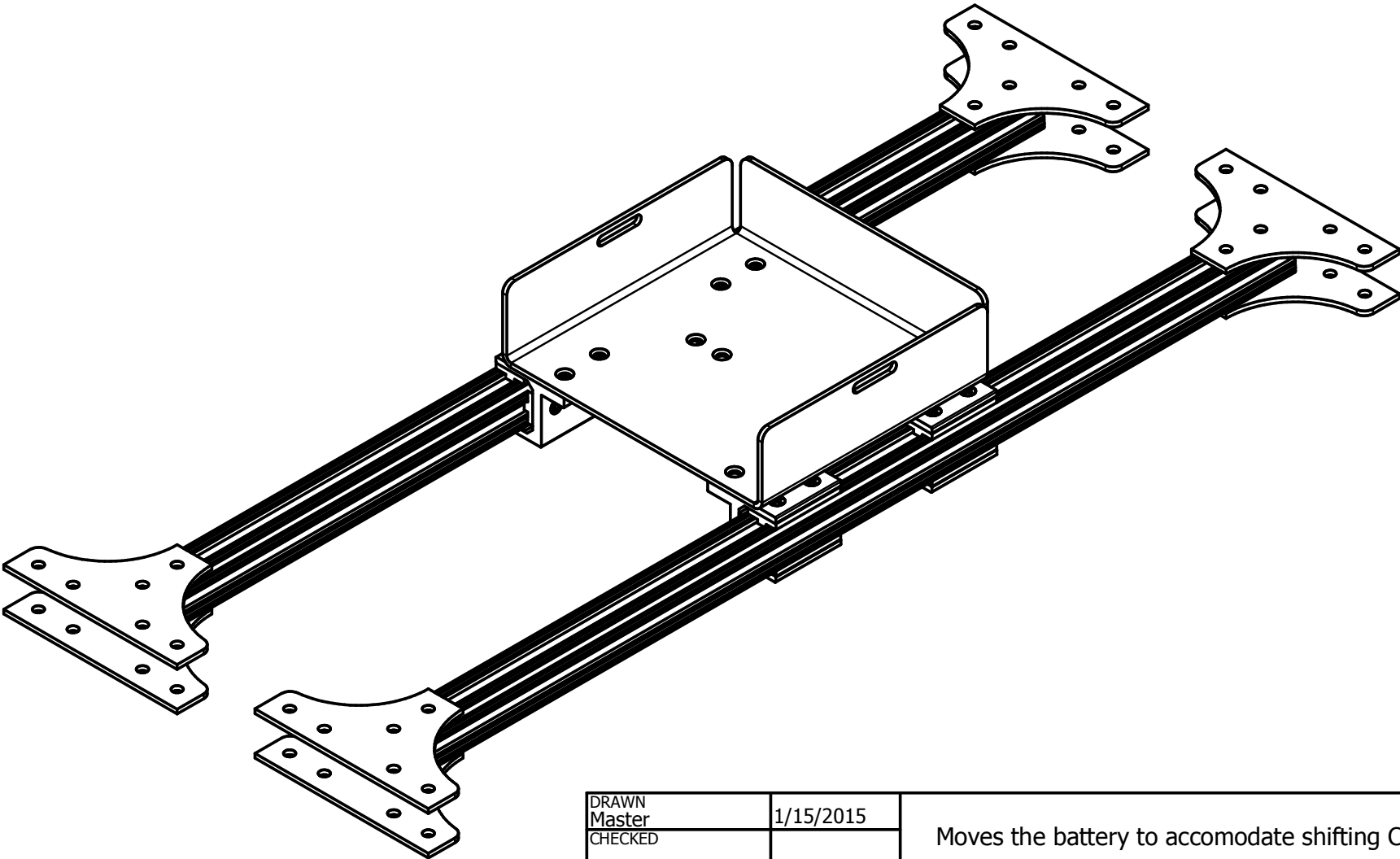
DRAWN Master	1/15/2015	TITLE Swishper		
CHECKED				
QA				
MFG				
APPROVED		SIZE A4		
		DWG NO	MMBOT	
		SCALE	SHEET 2 OF 33	



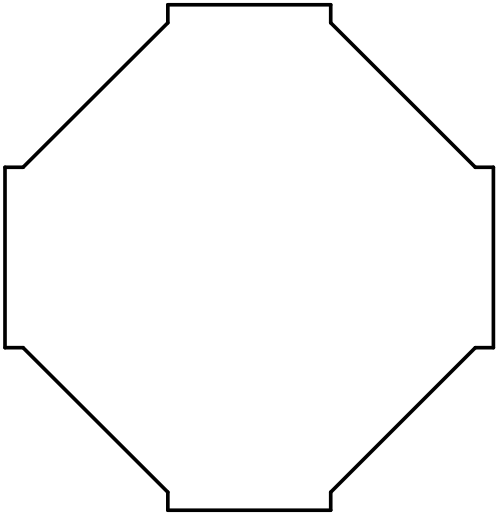
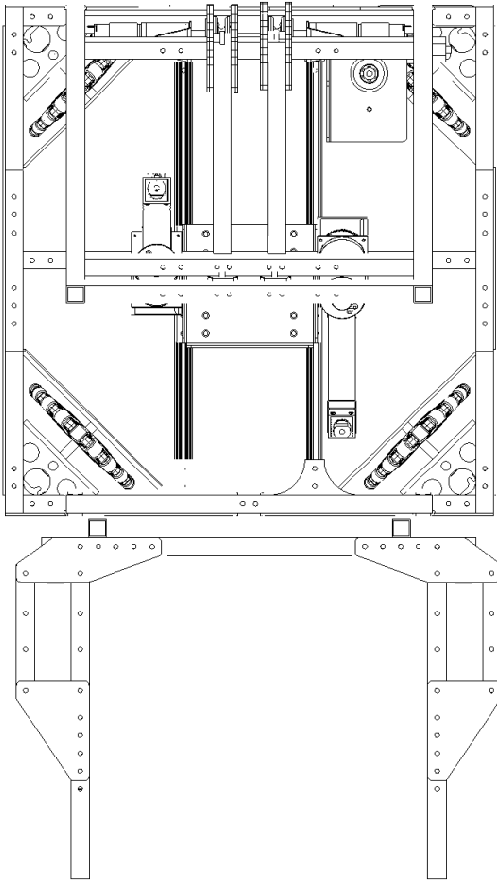
DRAWN Master	1/15/2015	Four wheel direct drive holonomic drive train		
CHECKED				
QA				
MFG		TITLE Drive Train		
APPROVED				
		SIZE A4	DWG NO MMBOT	REV
		SCALE	SHEET 3 OF 33	



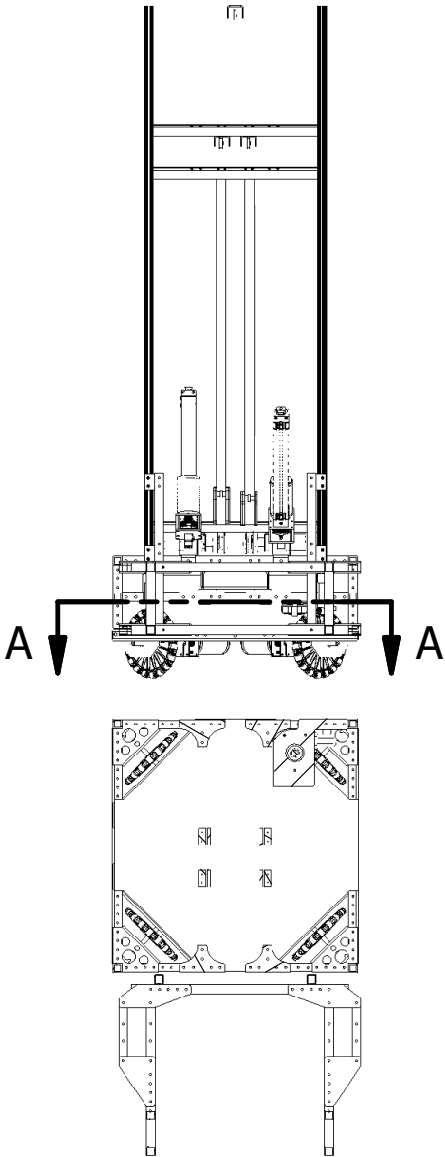
DRAWN Master	1/15/2015	TITLE Dart Linear Actuator		
CHECKED				
QA				
MFG				
APPROVED				
		SIZE A4	DWG NO MMBOT	REV
		SCALE	SHEET 4 OF 33	



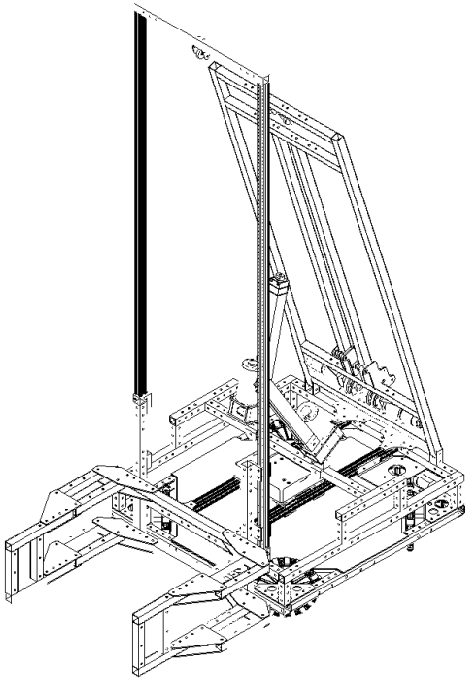
DRAWN Master	1/15/2015	Moves the battery to accomodate shifting COG		
CHECKED				
QA		TITLE Battery Motion Assembly		
MFG				
APPROVED		SIZE A4		
		DWG NO	MMBOT	REV
		SCALE		SHEET 5 OF 33



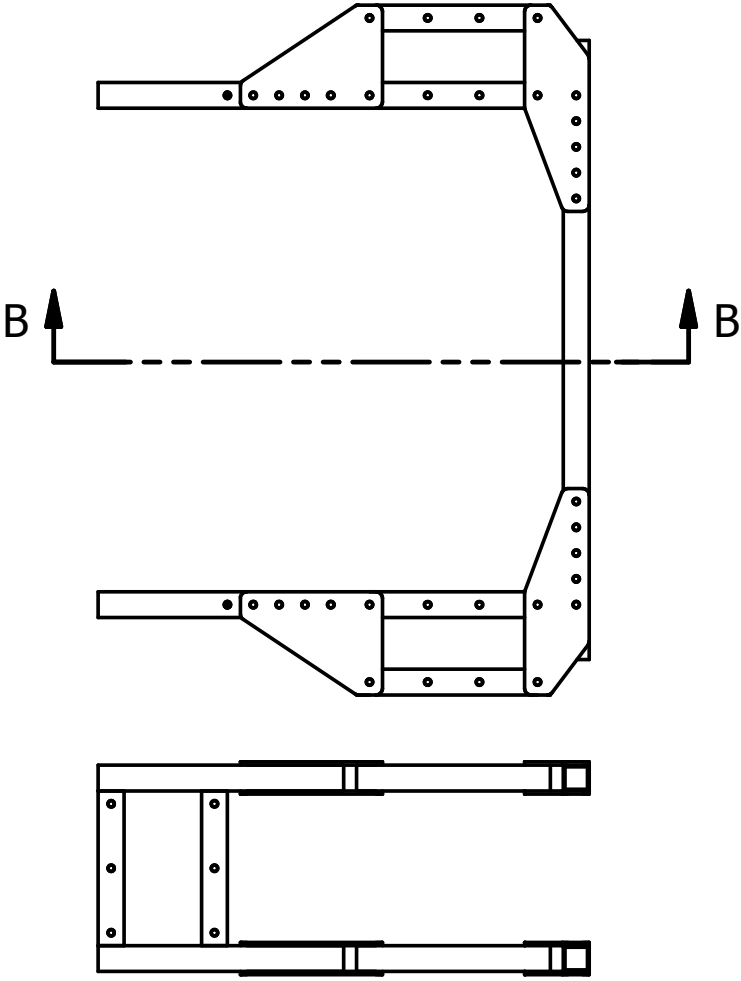
DRAWN Master	1/15/2015	TITLE Electronic Component Framework		
CHECKED				
QA				
MFG				
APPROVED		SIZE A4		
		DWG NO	MMBOT	REV
		SCALE		SHEET 6 OF 33



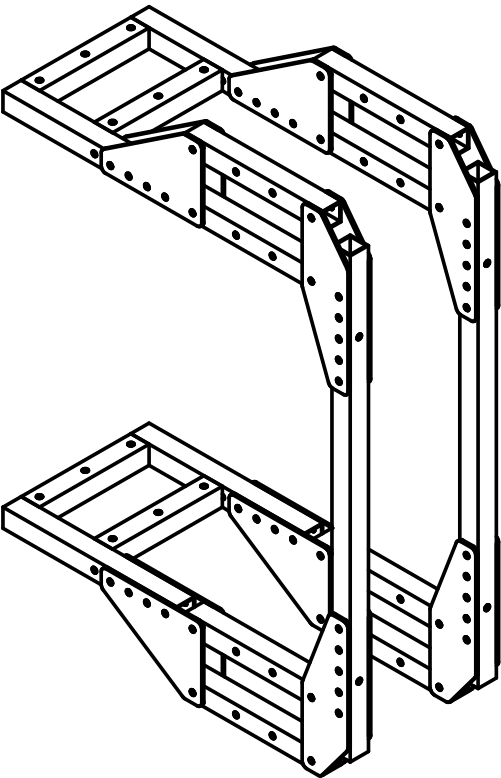
SECTION A-A
SCALE 1 / 20



DRAWN Master	1/15/2015	TITLE Swishper (View set two)		
CHECKED				
QA				
MFG				
APPROVED				
		SIZE A4	DWG NO MMBOT	REV
		SCALE		SHEET 7 OF 33

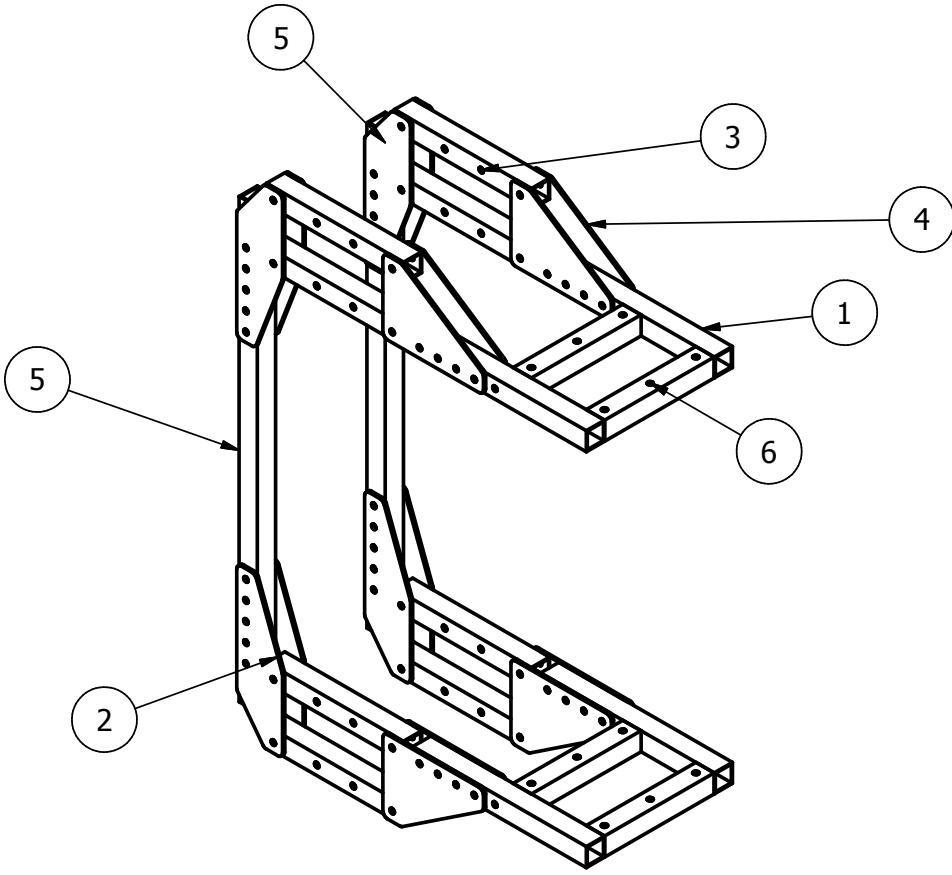


SECTION B-B
SCALE 1 / 7



DRAWN Master	1/15/2015	TITLE Gripper Assembly		
CHECKED				
QA				
MFG				
APPROVED		SIZE A4		
		DWG NO MMBOT		REV
		SCALE		SHEET 8 OF 33

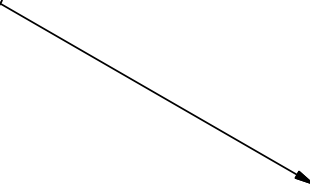




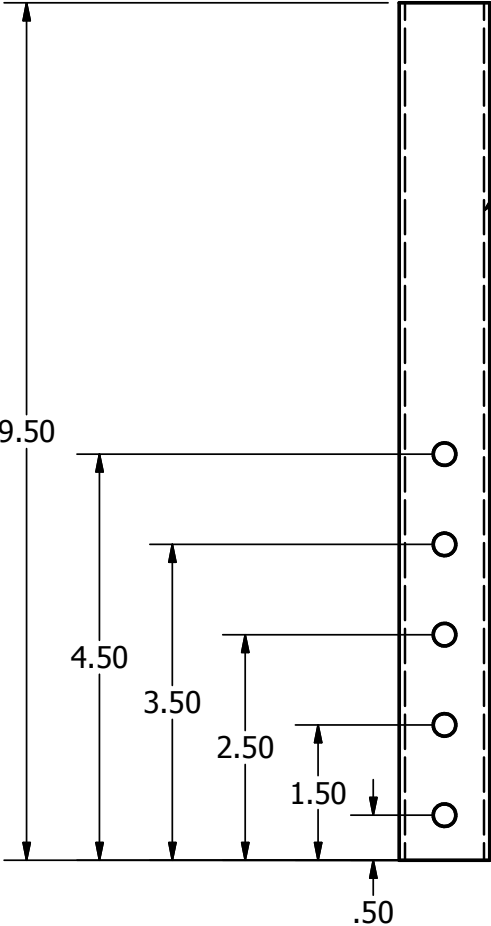
DRAWN Master	1/15/2015			
CHECKED				
QA		TITLE Key for Gripper Assembly		
MFG				
APPROVED				
		SIZE A4	DWG NO MMBOT	REV
		SCALE	SHEET 9 OF 33	



1

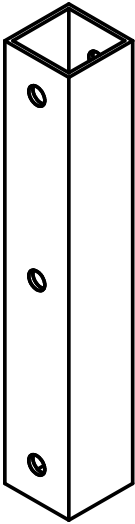
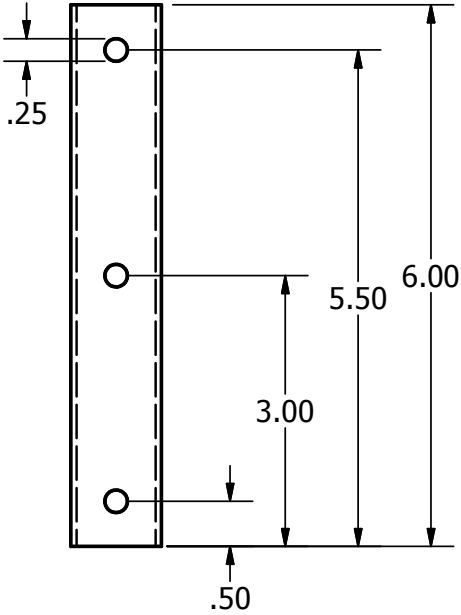
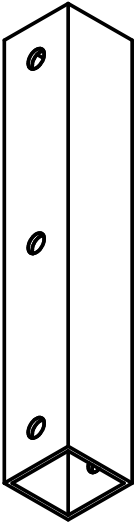


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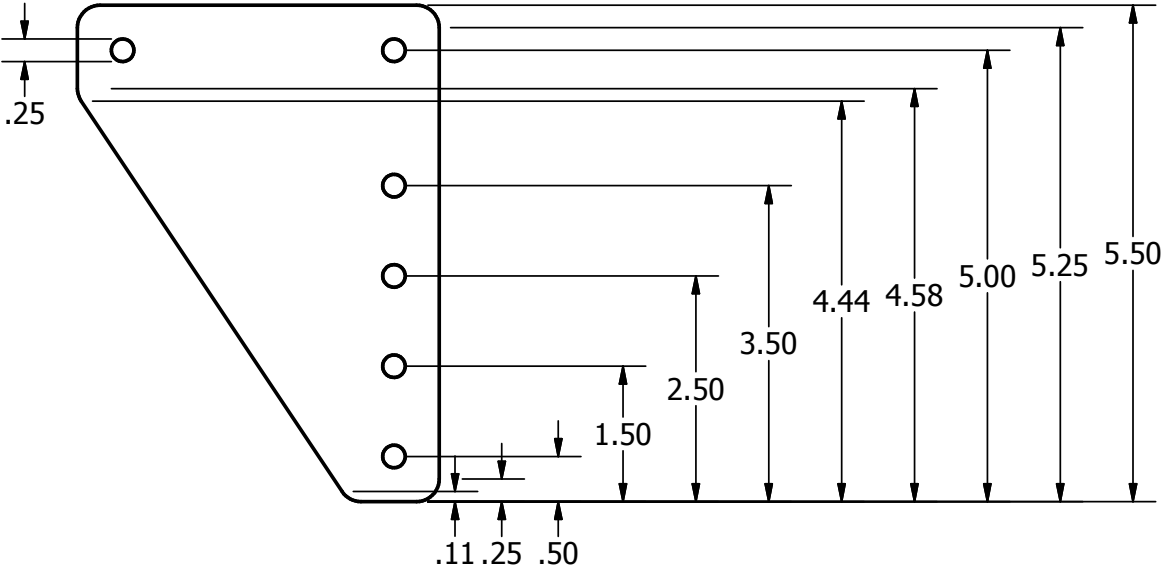
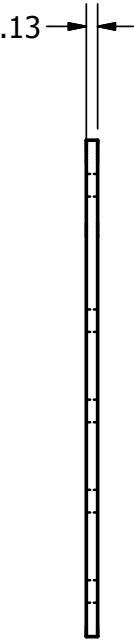
DRAWN Master	1/15/2015	TITLE Gripper Assembly Part 1		
CHECKED				
QA		SIZE A4		
MFG				
APPROVED		DWG NO MMBOT		REV
		SCALE		SHEET 10 OF 33



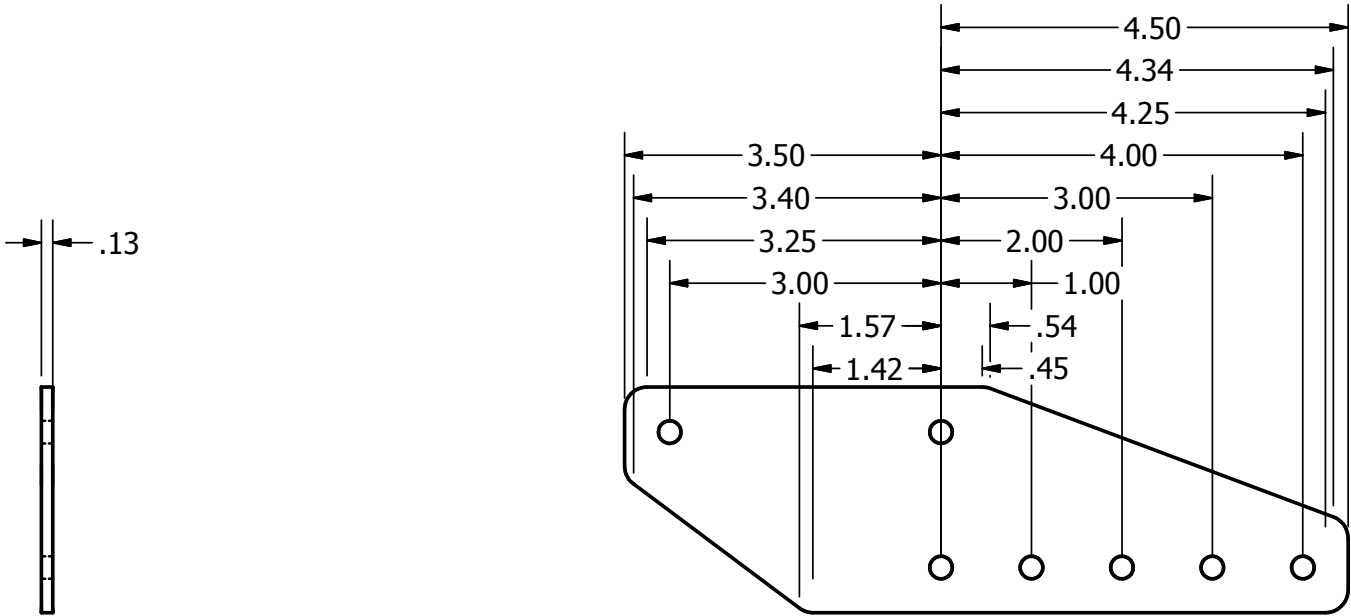


DRAWN Master	1/15/2015	TITLE Gripper Assembly Part 6		
CHECKED				
QA				
MFG				
APPROVED		SIZE A4		
		DWG NO MMBOT		REV
		SCALE		
		SHEET 11 OF 33		

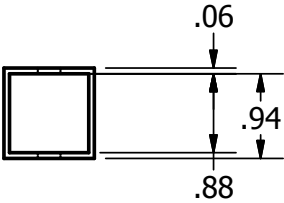
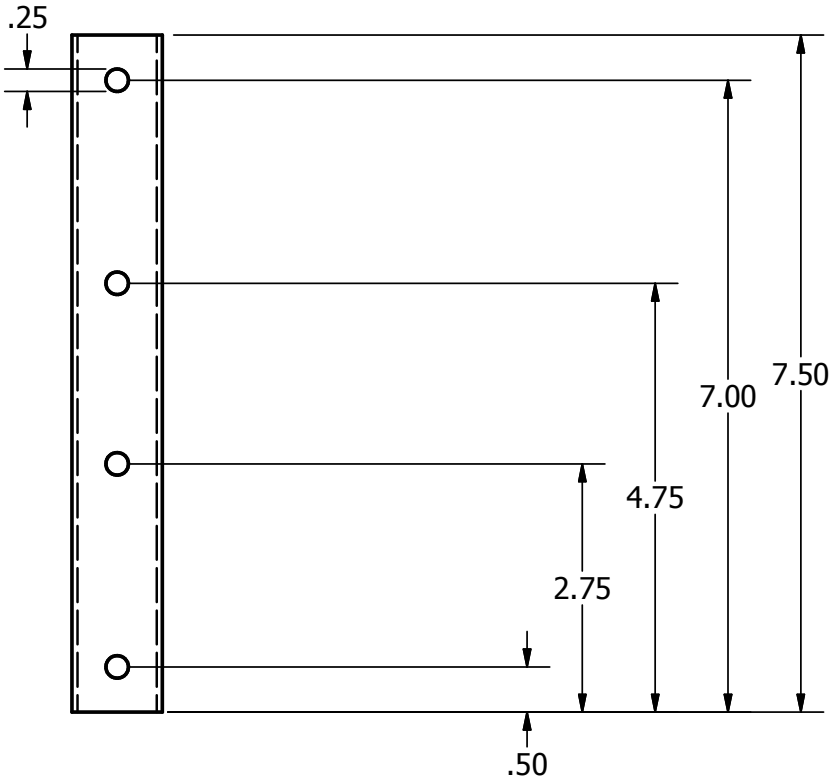




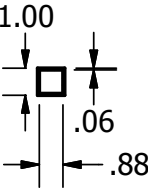
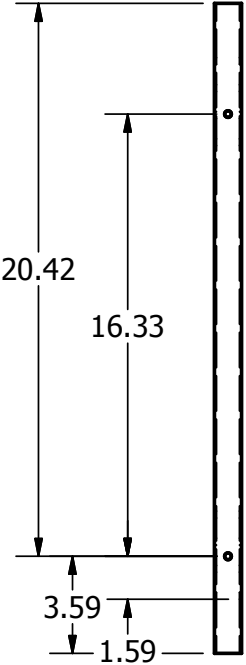
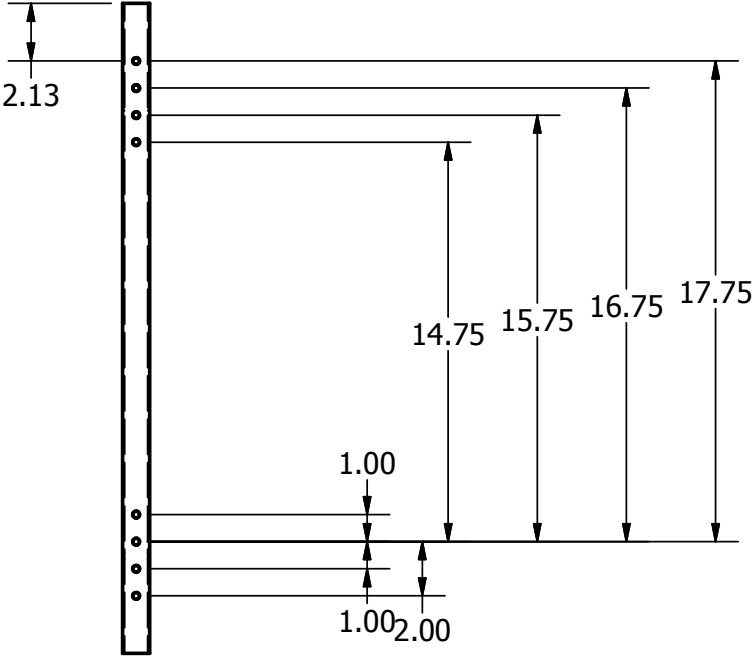
DRAWN Master	1/15/2015			
CHECKED				
QA		TITLE Gripper Assembly Part 4		
MFG				
APPROVED				
		SIZE A4	DWG NO MMBOT	REV
		SCALE	SHEET 12 OF 33	



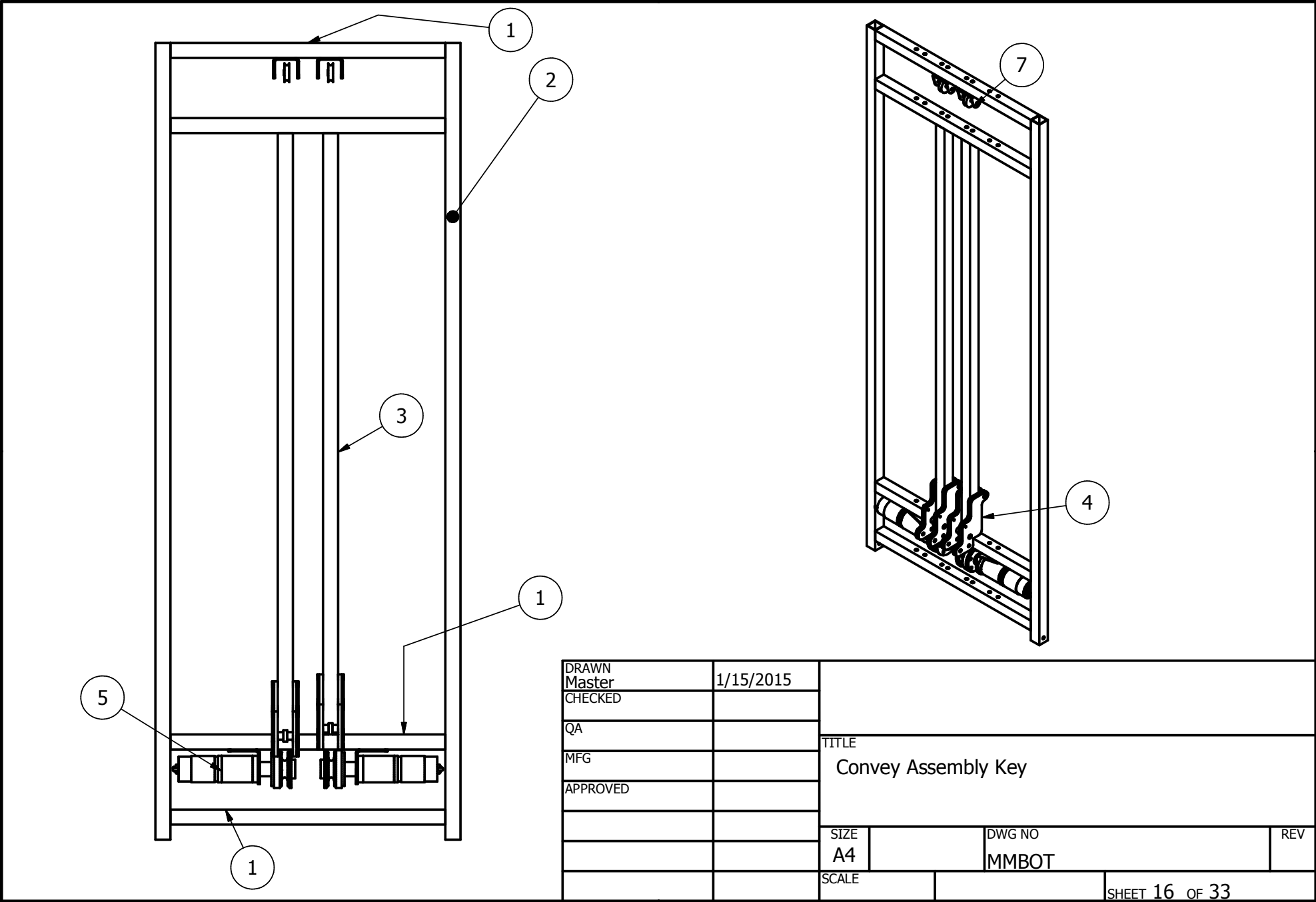
DRAWN Master	1/15/2015	TITLE Gripper Assembly Part 2		
CHECKED				
QA				
MFG				
APPROVED		SIZE A4		
		DWG NO MMBOT	REV	
		SCALE	SHEET 13 OF 33	



DRAWN Master	1/15/2015	TITLE Gripper Assembly Part 3		
CHECKED				
QA		SIZE A4		
MFG				
APPROVED		DWG NO MMBOT		
		SCALE		
		SHEET 14 OF 33		

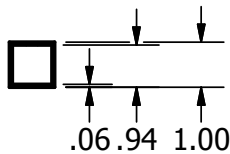
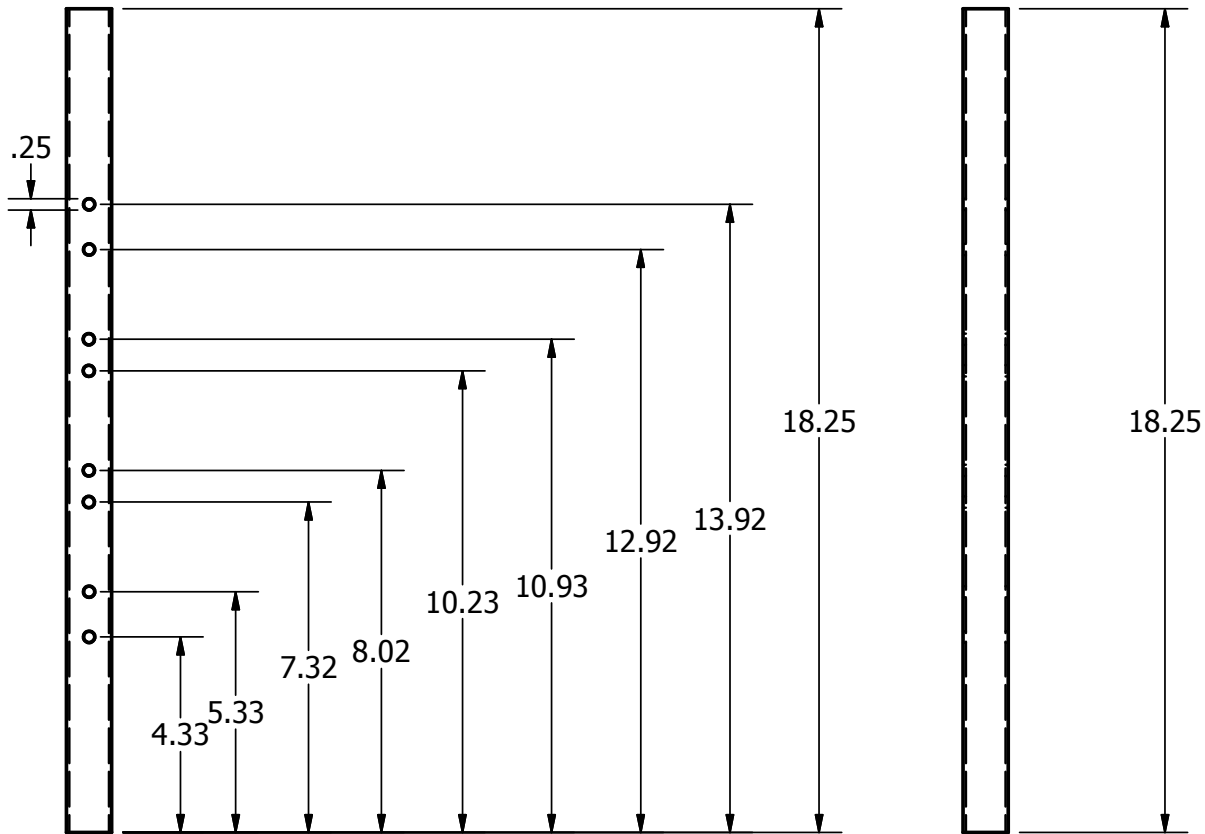


DRAWN Master	1/15/2015	TITLE Gripper Assembly Part 5		
CHECKED				
QA				
MFG				
APPROVED		SIZE A4		
		DWG NO MMBOT		REV
		SCALE		
		SHEET 15 OF 33		

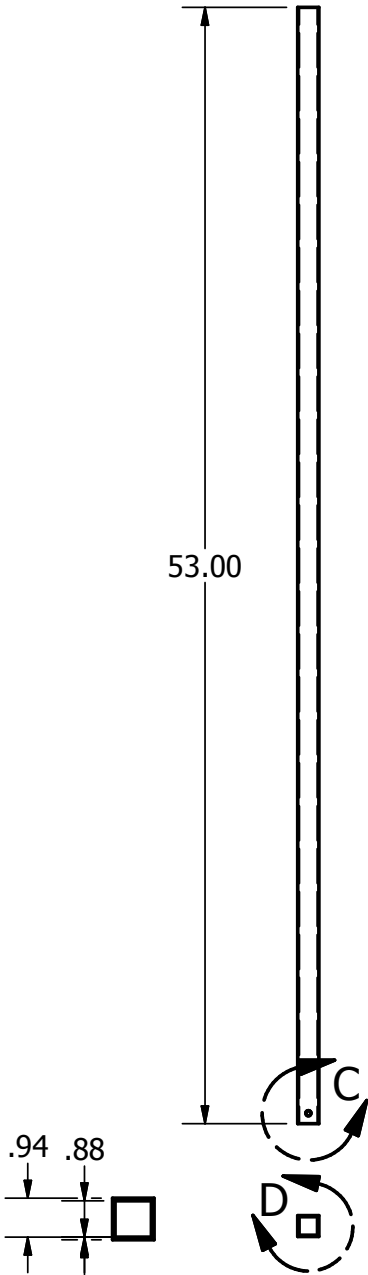


DRAWN Master	1/15/2015	TITLE Convey Assembly Key		
CHECKED				
QA				
MFG				
APPROVED		SIZE A4		
		DWG NO MMBOT		REV
		SCALE		
		SHEET 16 OF 33		





DRAWN Master	1/15/2015	TITLE Convey Part 1		
CHECKED				
QA				
MFG				
APPROVED		SIZE A4		
		DWG NO MMBOT		REV
		SCALE		
		SHEET 17 OF 33		



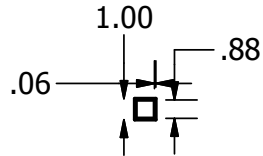
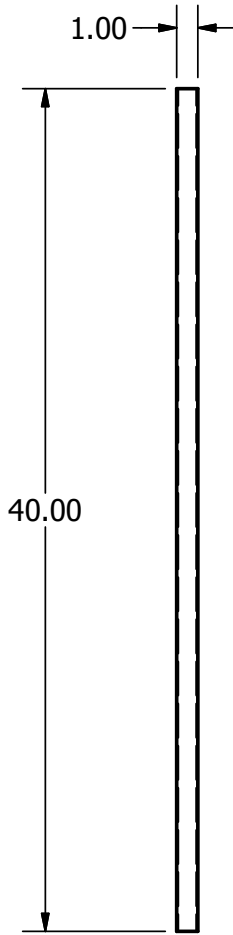
53.00

DETAIL C
SCALE 0.23 : 1

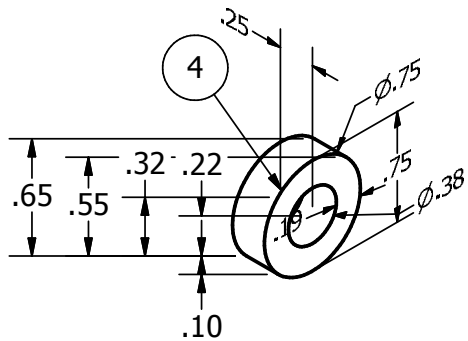
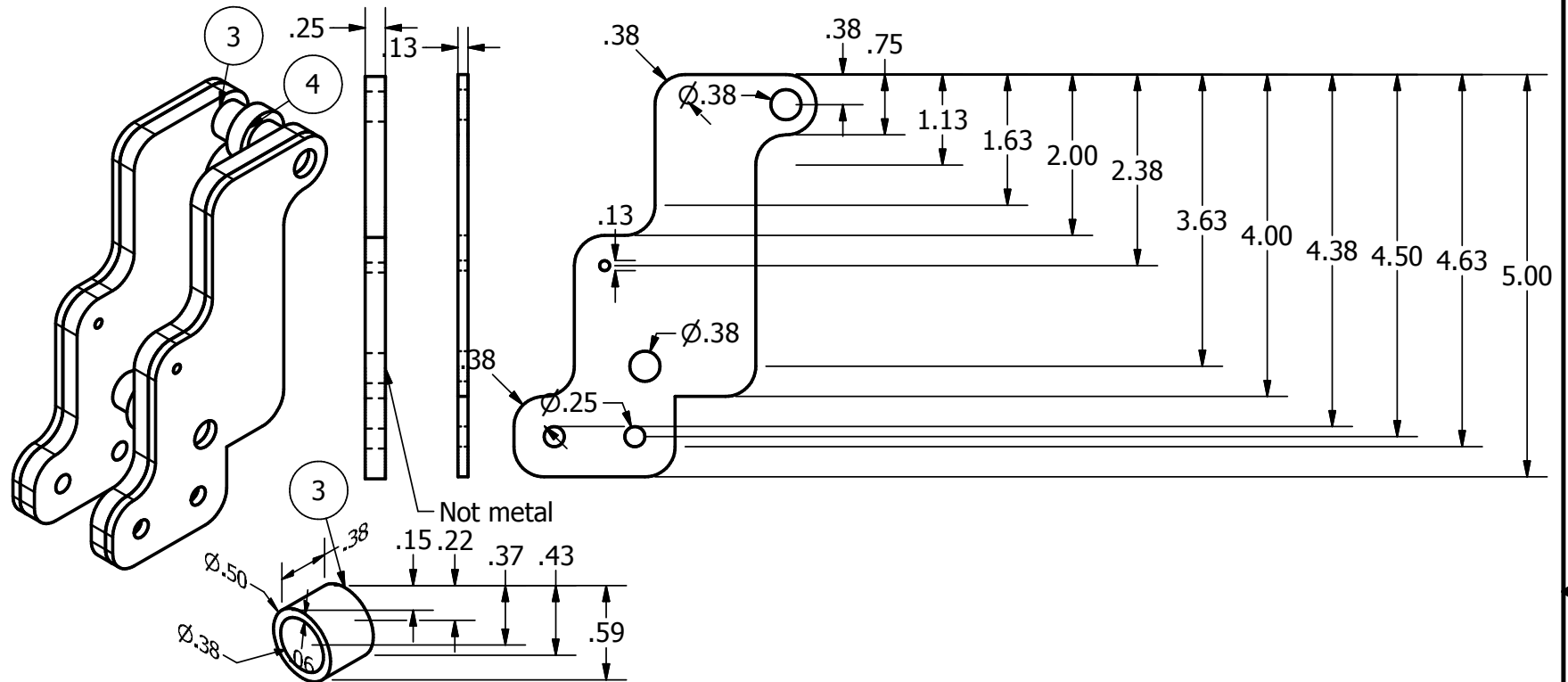
DETAIL D
SCALE 0.23 : 1

DRAWN Master	1/15/2015	TITLE Convey Assembly Part 2		
CHECKED				
QA				
MFG				
APPROVED		SIZE A4		
		DWG NO MMBOT		REV
		SCALE		
		SHEET 18 OF 33		

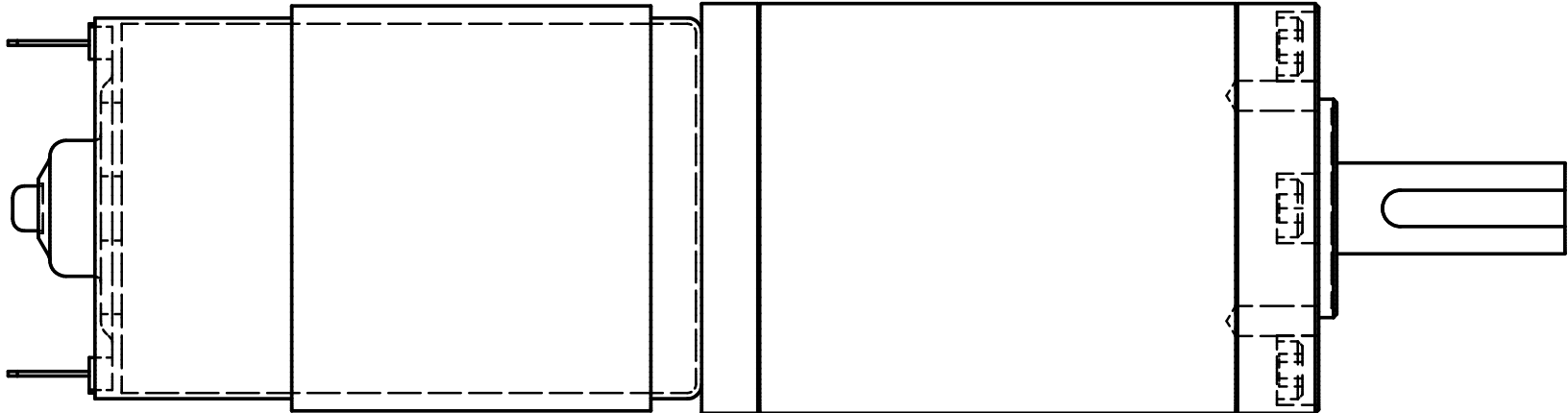




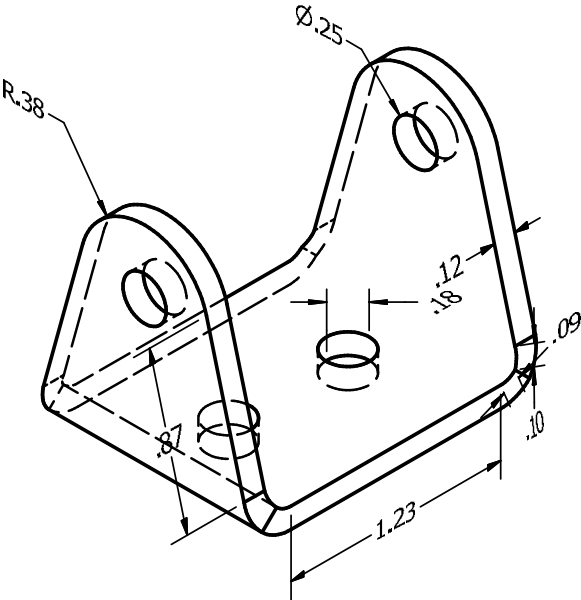
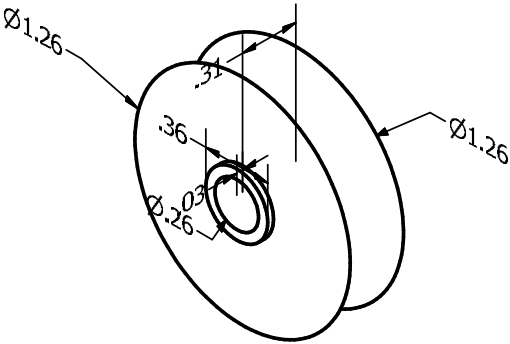
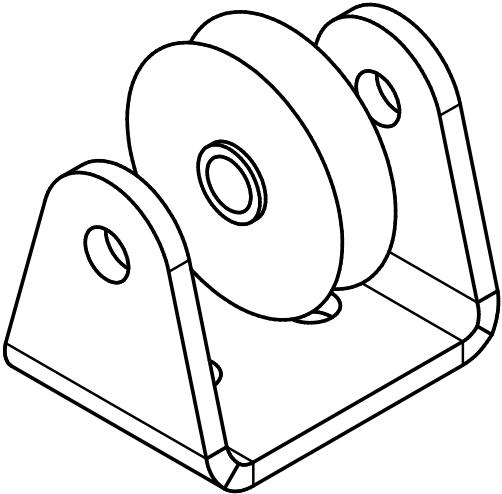
DRAWN Master	1/15/2015			
CHECKED				
QA		TITLE Convey Assembly Part 3		
MFG				
APPROVED				
		SIZE A4	DWG NO MMBOT	REV
		SCALE	SHEET 19 OF 33	



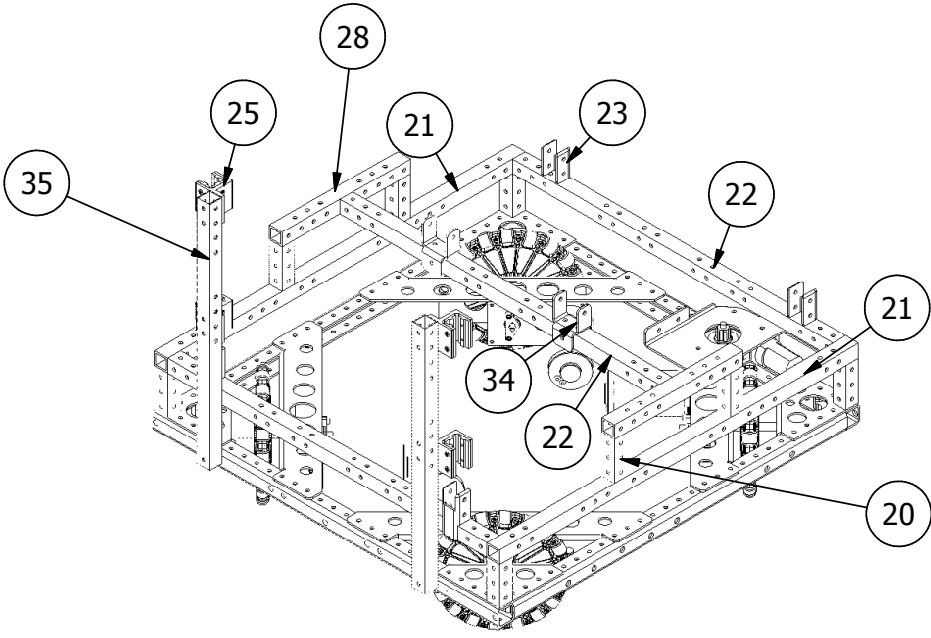
DRAWN Master	1/15/2015	TITLE Convey Assembly Part 4		
CHECKED				
QA				
MFG				
APPROVED		SIZE A4		
		DWG NO MMBOT	REV	
		SCALE	SHEET 20 OF 33	



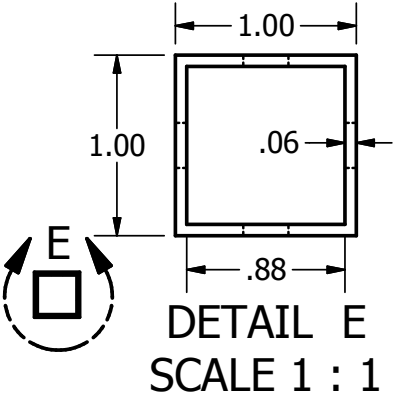
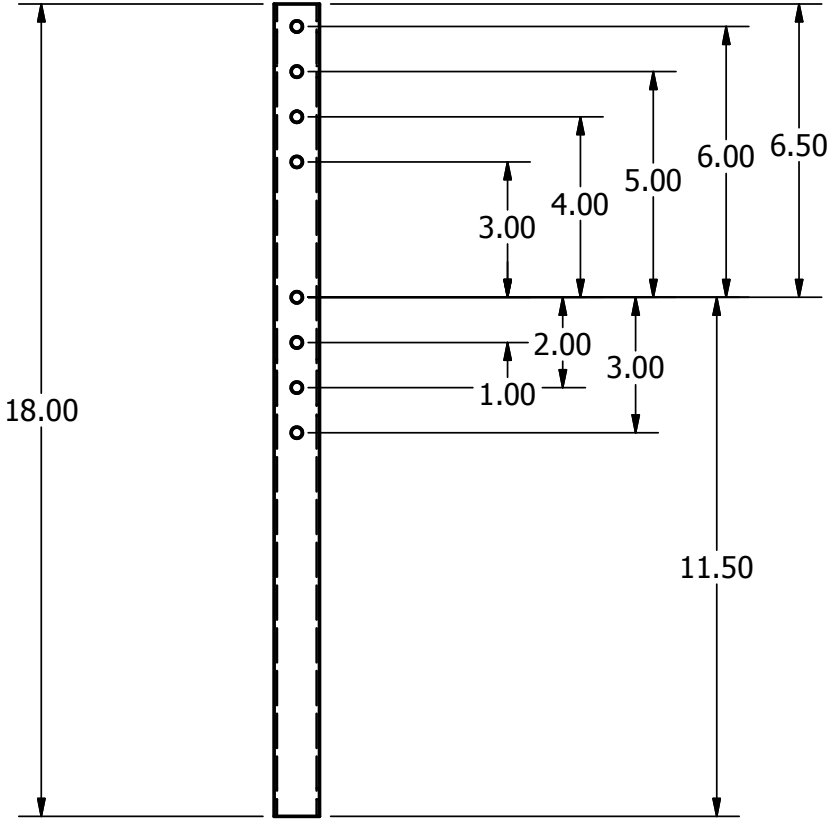
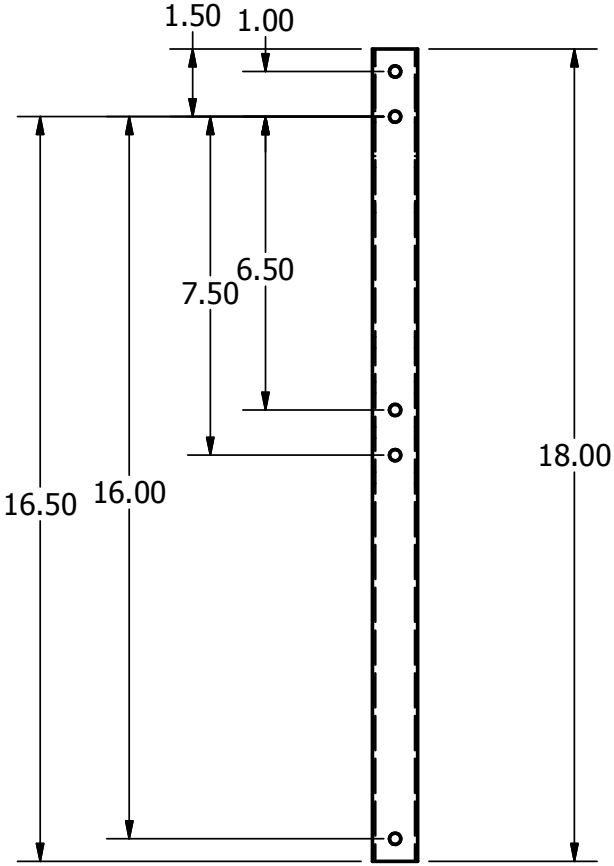
DRAWN Master	1/15/2015	Andymark PG188 Motor with Attached Planetary Gearbox		
CHECKED				
QA		TITLE Convey Assembly Part 5		
MFG				
APPROVED				
		SIZE A4	DWG NO MMBOT	REV
		SCALE	SHEET 21 OF 33	



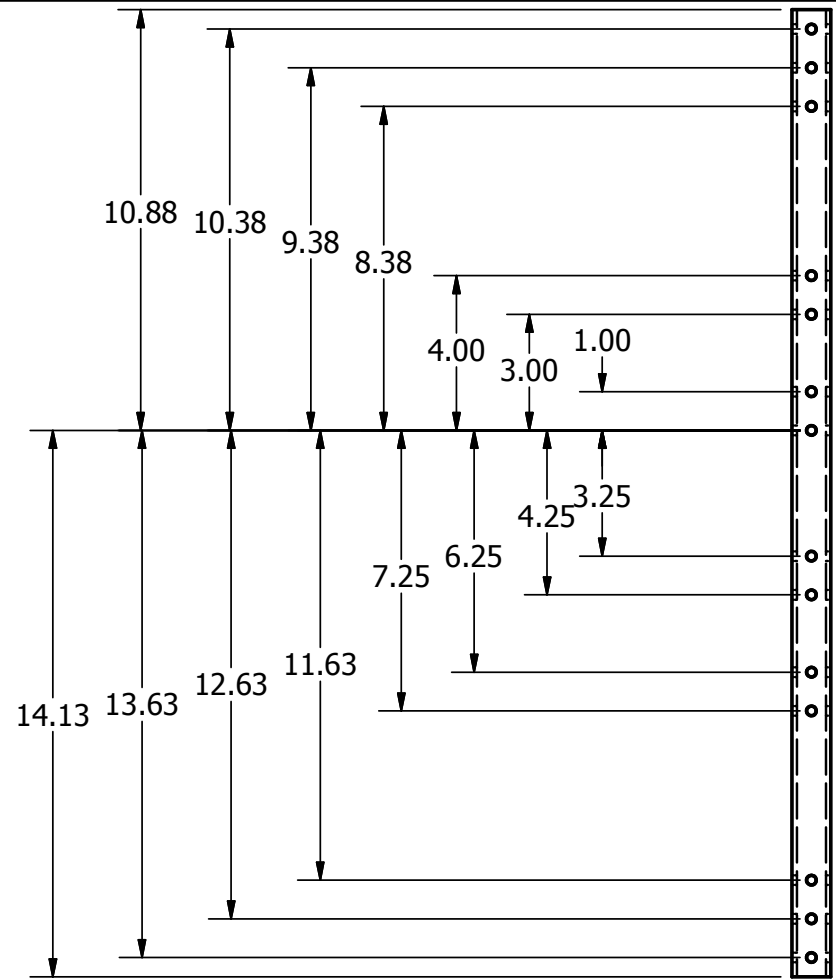
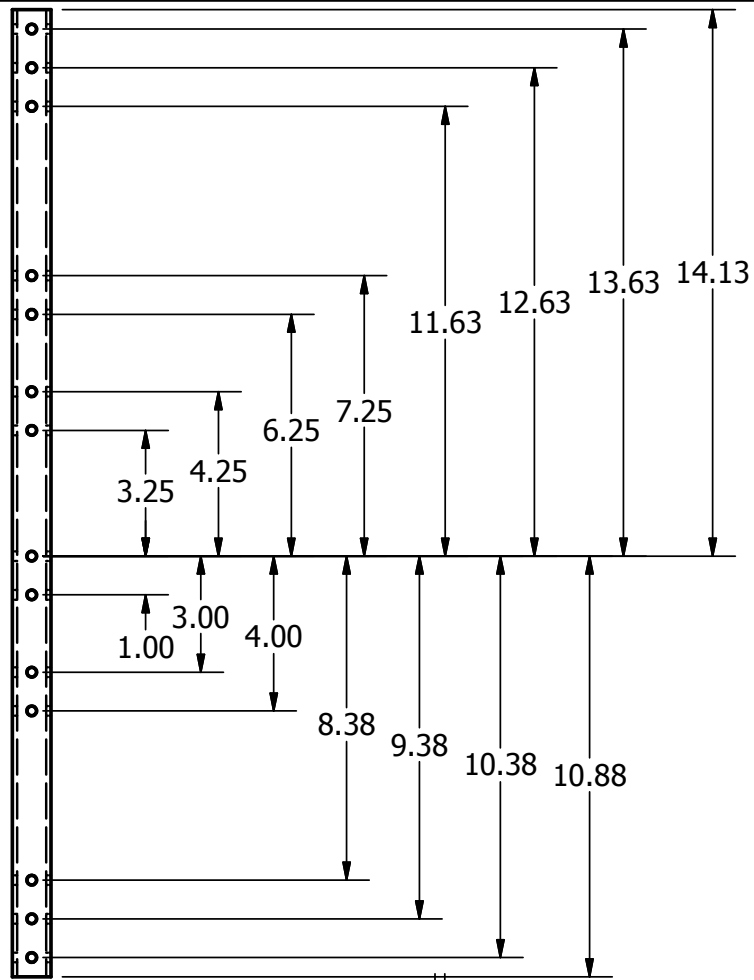
DRAWN Master	1/15/2015	TITLE Convey Assembly Part 7		
CHECKED				
QA				
MFG				
APPROVED		SIZE A4	DWG NO MMBOT	REV
		SCALE	SHEET 22 OF 33	



DRAWN Master	1/15/2015	TITLE Base Key 1		
CHECKED				
QA				
MFG				
APPROVED		SIZE A4		
		DWG NO	MMBOT	REV
		SCALE	SHEET 23 OF 33	

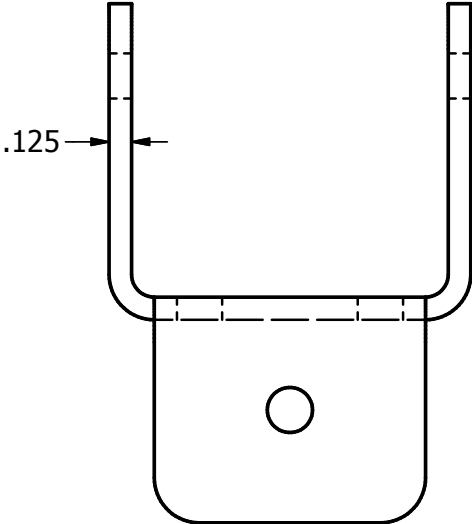
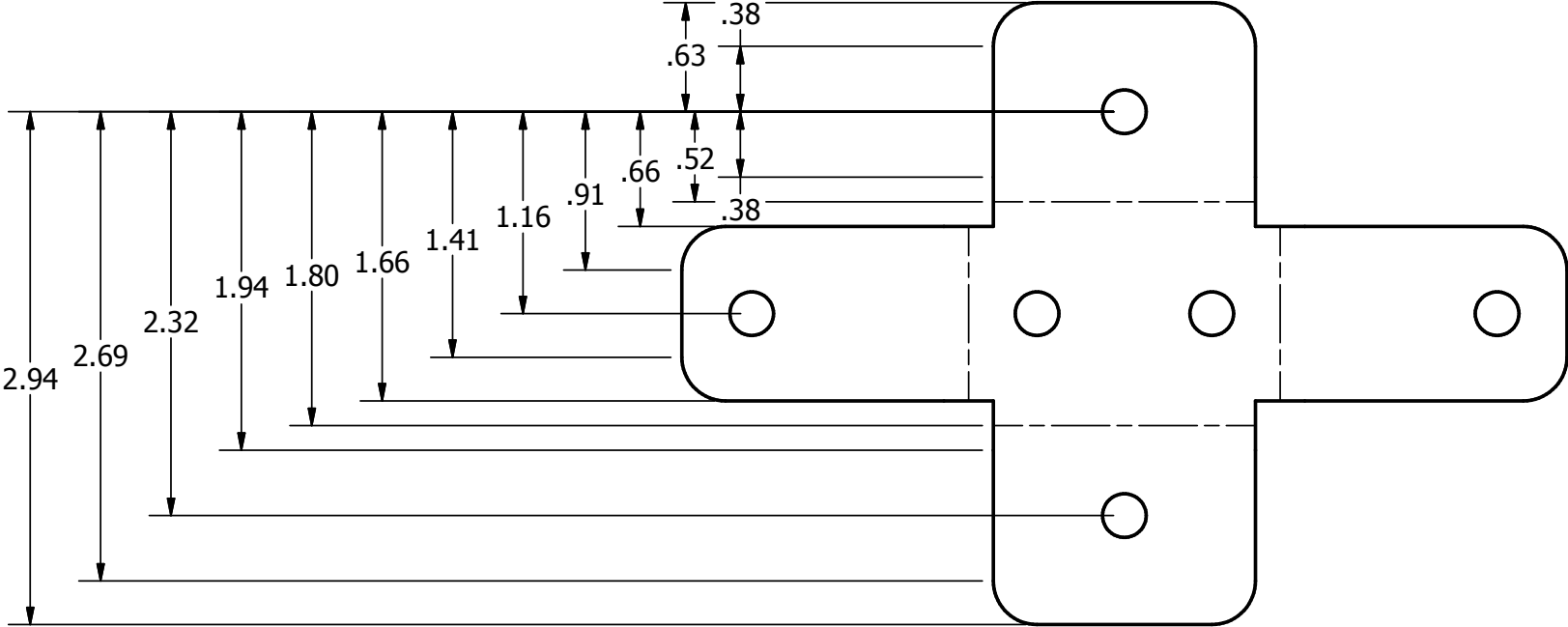


DRAWN Master	1/15/2015	TITLE Base Part 35		
CHECKED				
QA		SIZE A4		
MFG				
APPROVED		DWG NO MMBOT		REV
		SCALE		SHEET 24 OF 33

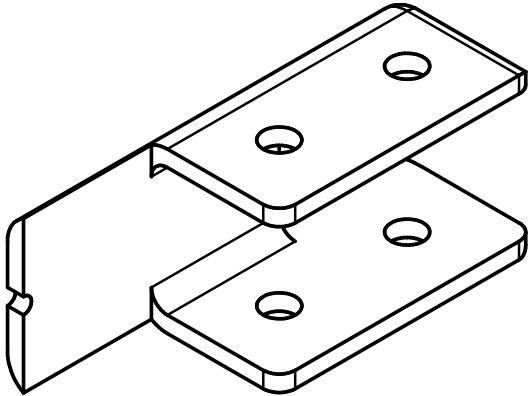
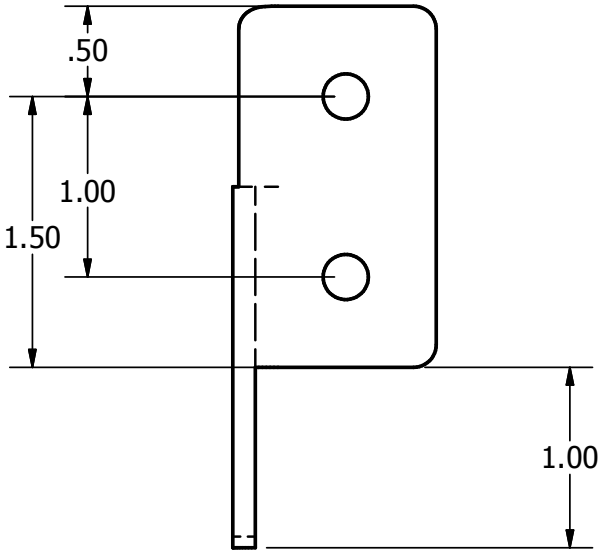
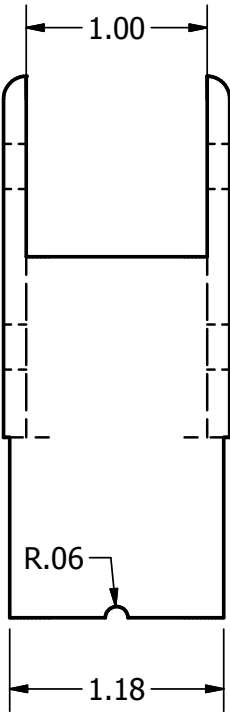


DETAIL F
SCALE 0.43 : 1

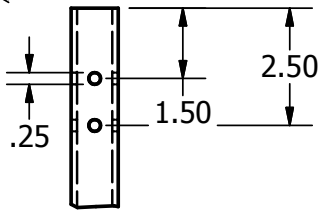
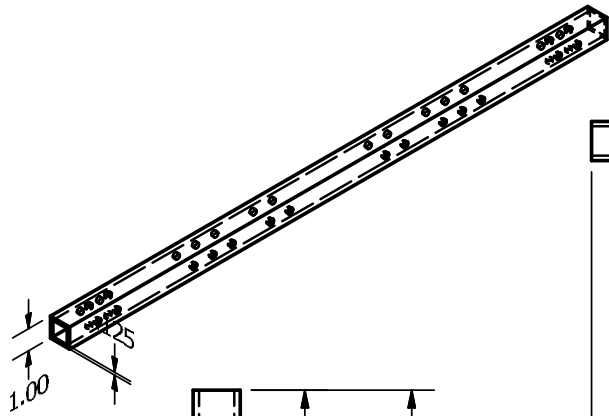
DRAWN Master	1/15/2015	TITLE Base Part 25		
CHECKED				
QA				
MFG				
APPROVED		SIZE A4		
		DWG NO MMBOT		REV
		SCALE		SHEET 25 OF 33



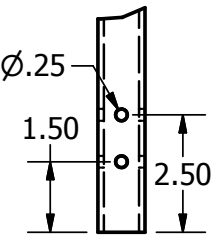
DRAWN Master	1/15/2015	TITLE Base Part 34		
CHECKED				
QA				
MFG				
APPROVED		SIZE A4		
		DWG NO MMBOT		REV
		SCALE		
		SHEET 26 OF 33		



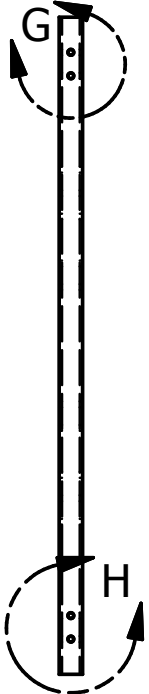
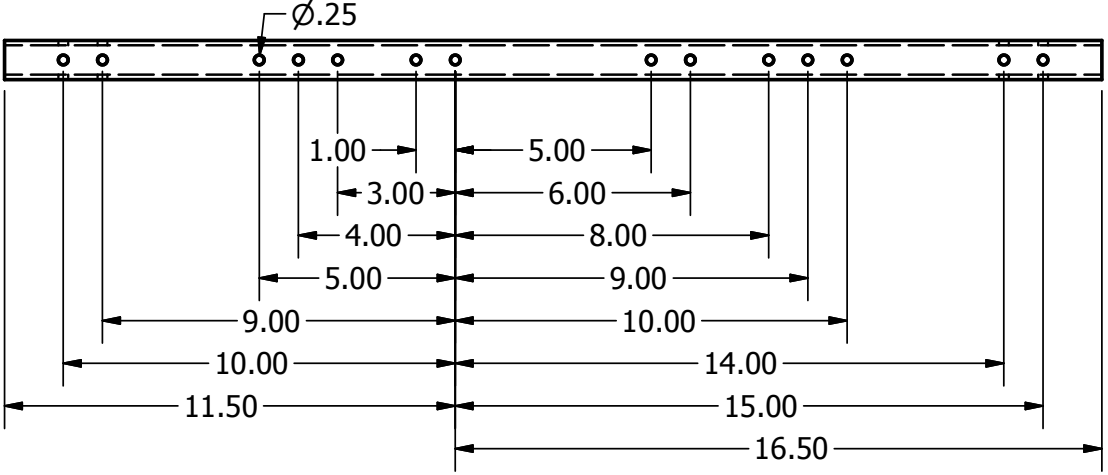
DRAWN Master	1/15/2015	TITLE Base Part 23		
CHECKED				
QA				
MFG				
APPROVED		SIZE A4		
		DWG NO MMBOT	REV	
		SCALE	SHEET 27 OF 33	



DETAIL G
SCALE 0.26 : 1

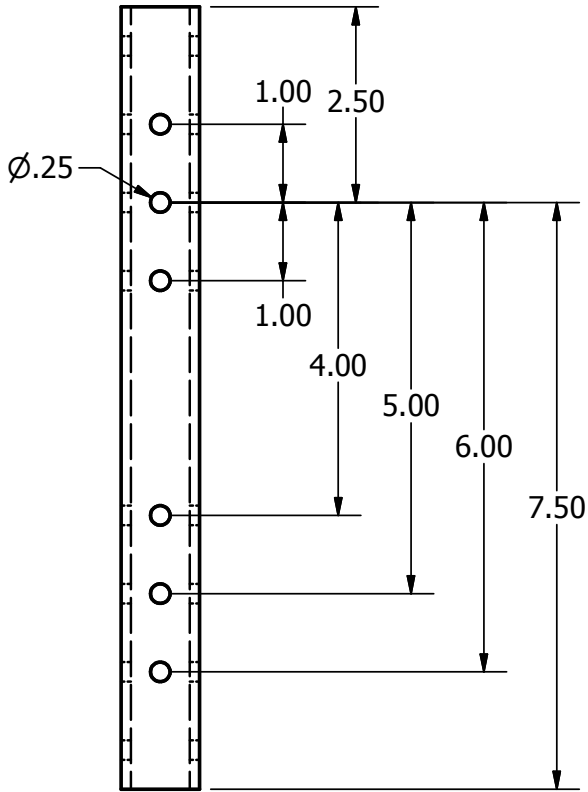
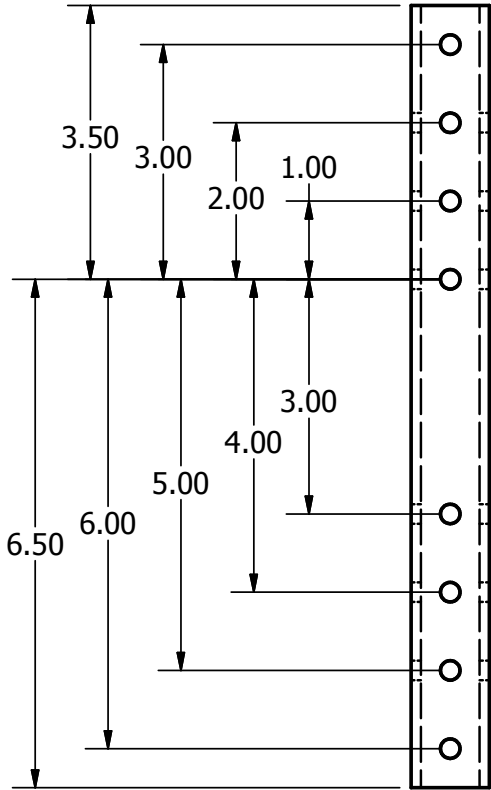
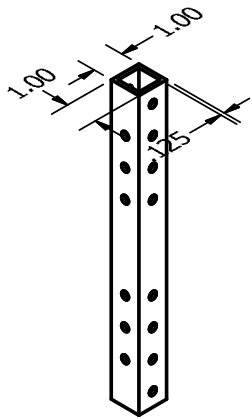


DETAIL H
SCALE 0.26 : 1



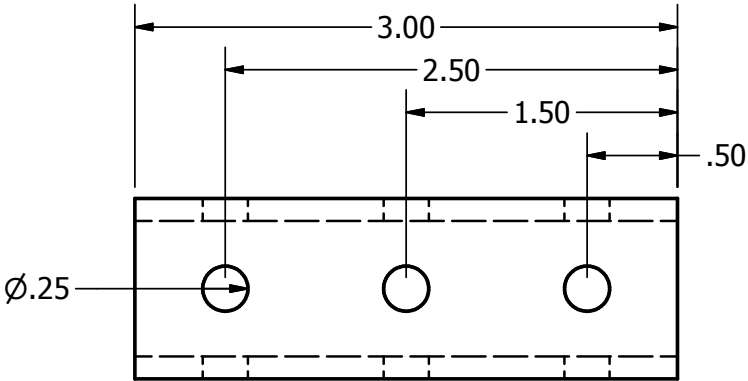
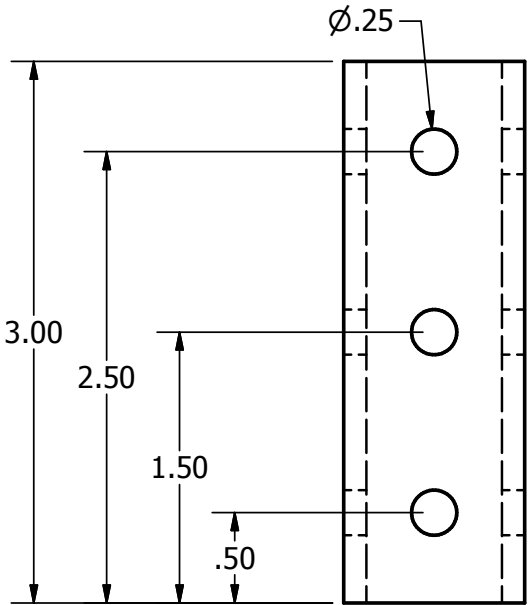
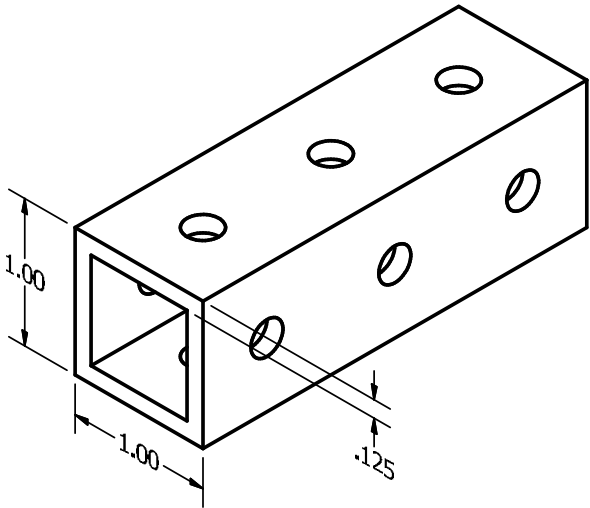
DRAWN Master	1/15/2015	TITLE Base Part 22		
CHECKED				
QA				
MFG				
APPROVED		SIZE A4		
		DWG NO MMBOT		REV
		SCALE		SHEET 28 OF 33



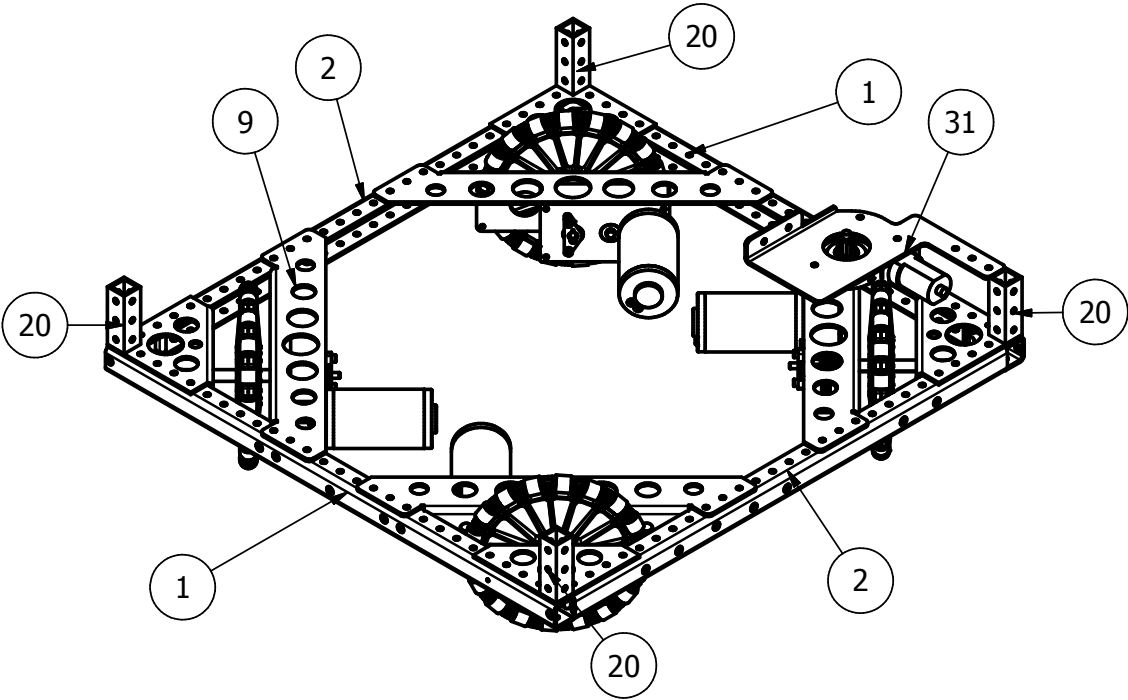


DRAWN Master	1/15/2015	TITLE Base Part 28		
CHECKED				
QA		SIZE A4		
MFG				
APPROVED		DWG NO MMBOT		
		SCALE		
		SHEET 29 OF 33		

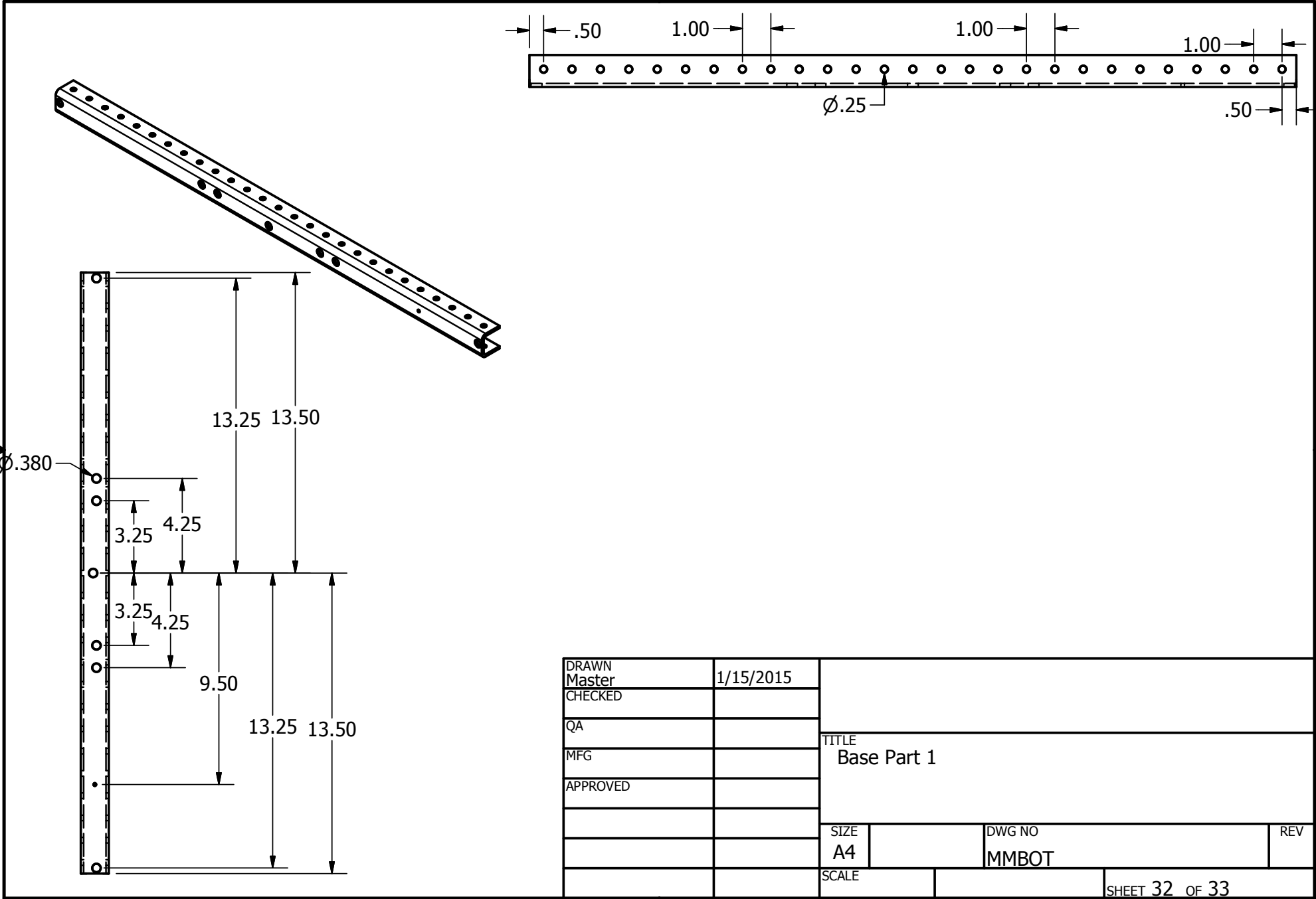




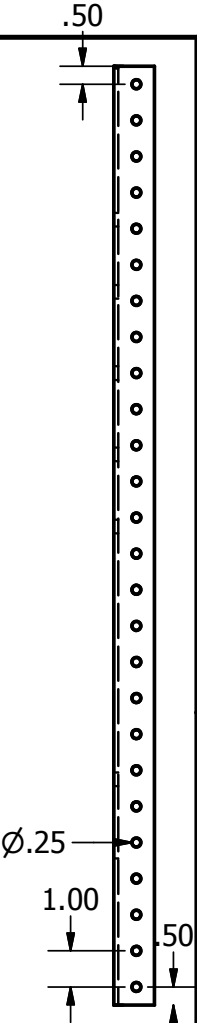
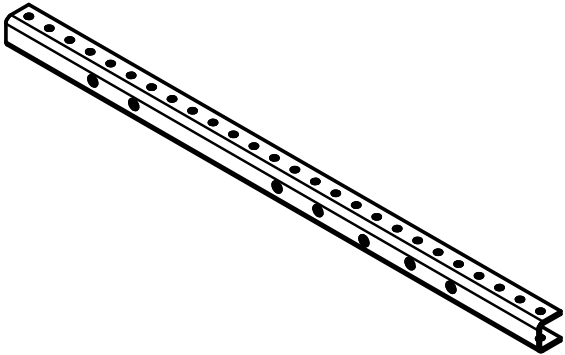
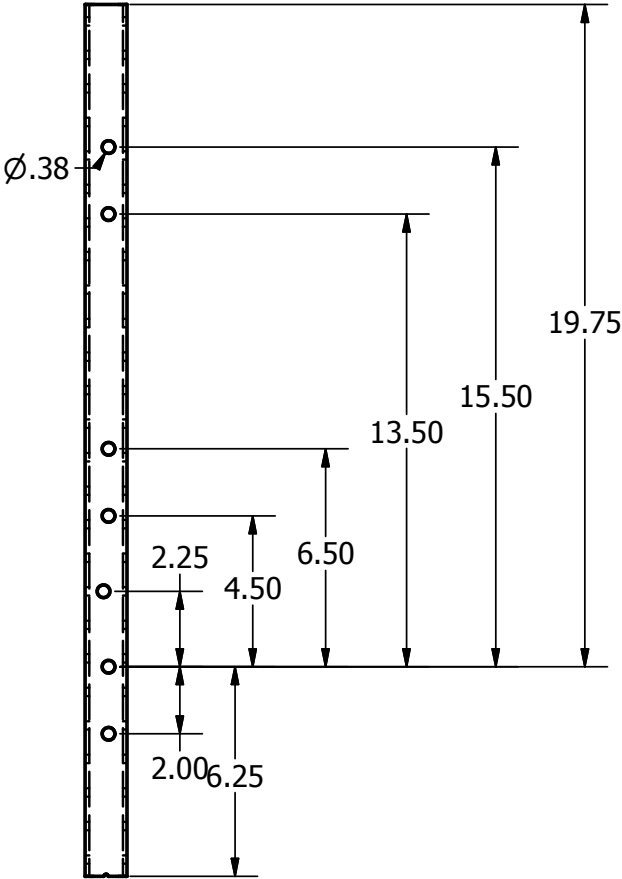
DRAWN Master	1/15/2015			
CHECKED				
QA		TITLE Base Part 20		
MFG				
APPROVED				
		SIZE A4	DWG NO MMBOT	REV
		SCALE	SHEET 30 OF 33	



DRAWN Master	1/15/2015	TITLE Base Key 2		
CHECKED				
QA				
MFG				
APPROVED		SIZE A4		
		DWG NO	MMBOT	
		SCALE	SHEET 31 OF 33	



DRAWN Master	1/15/2015	TITLE Base Part 1		
CHECKED				
QA				
MFG				
APPROVED		SIZE A4		
		DWG NO	MMBOT	
		SCALE	SHEET 32 OF 33	



DRAWN Master	1/15/2015	TITLE Base Part 2		
CHECKED				
QA				
MFG				
APPROVED				
		SIZE A4	DWG NO MMBOT	REV
		SCALE	SHEET 33 OF 33	