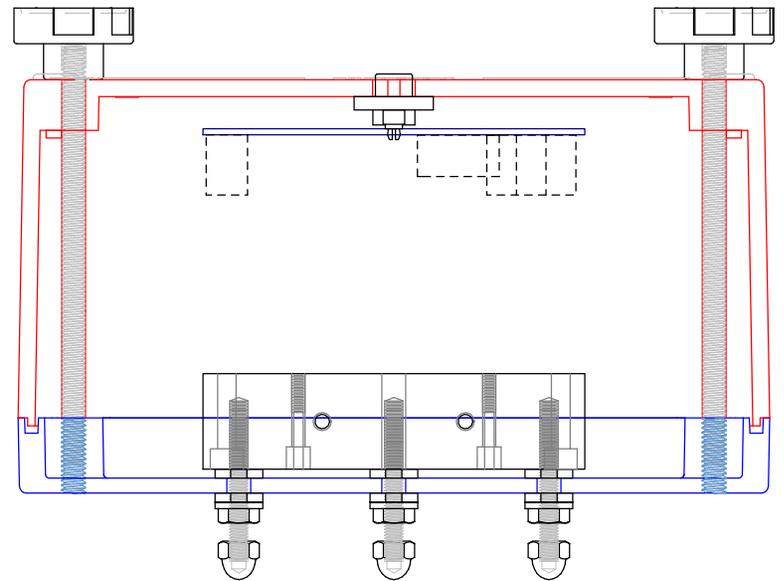
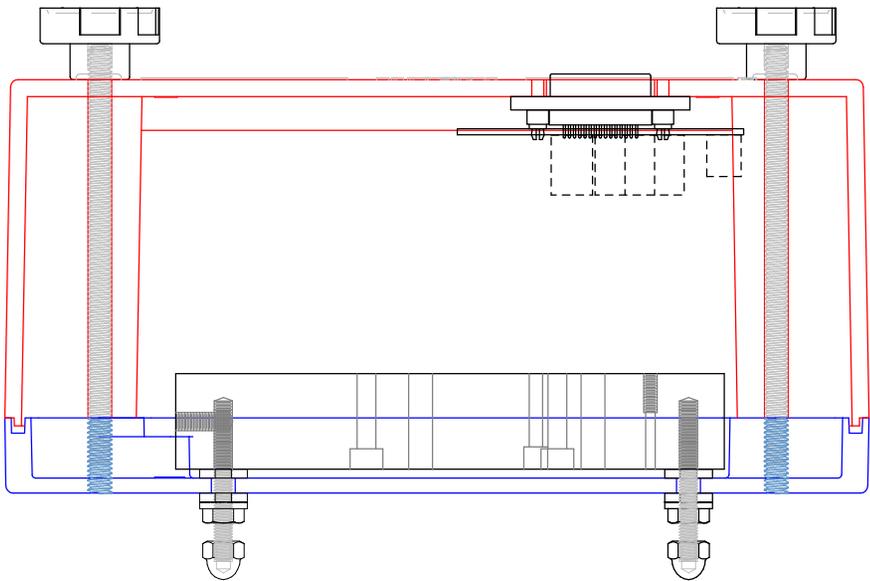
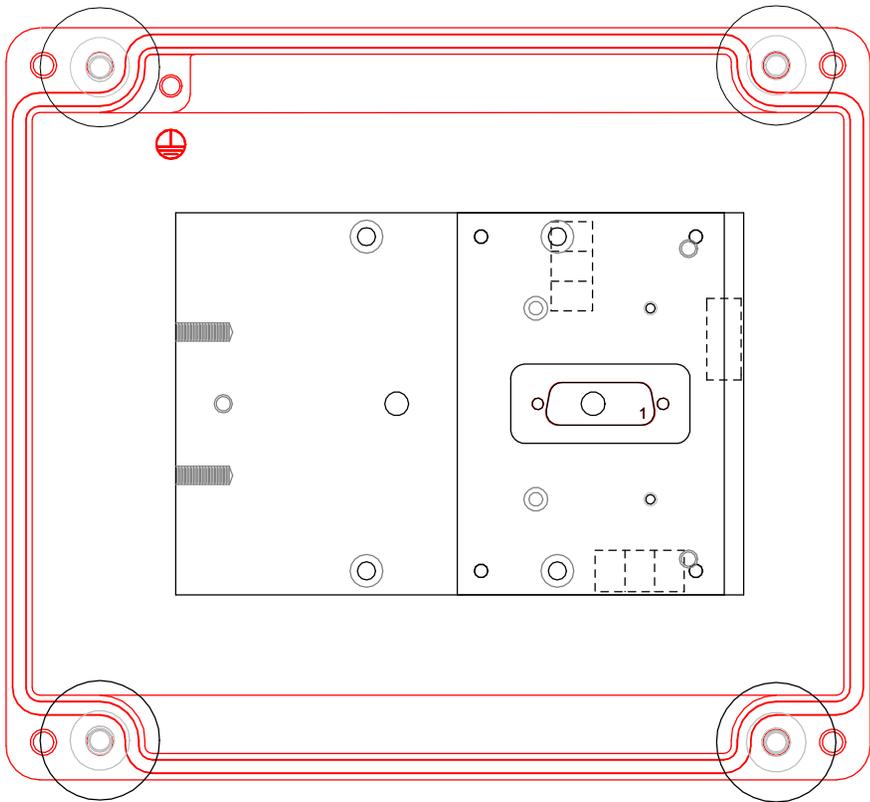
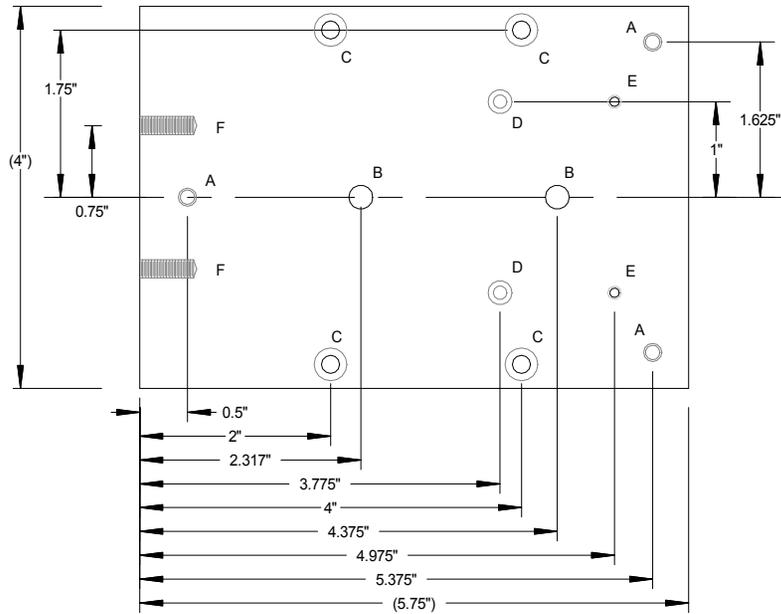


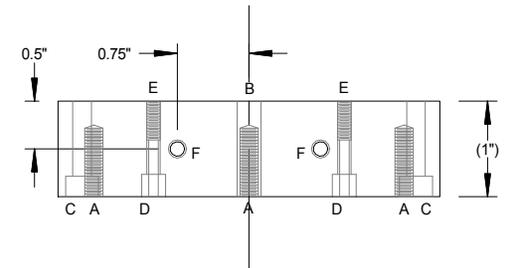
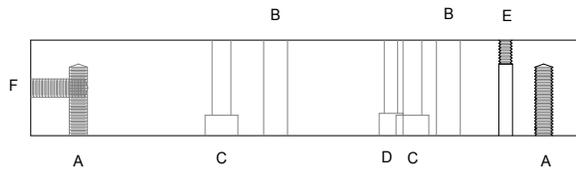
		Yuma2 Force Balance Vertical Seismometer	
Rev. 4.3	5 March, 2018		
	B. Nordgren		



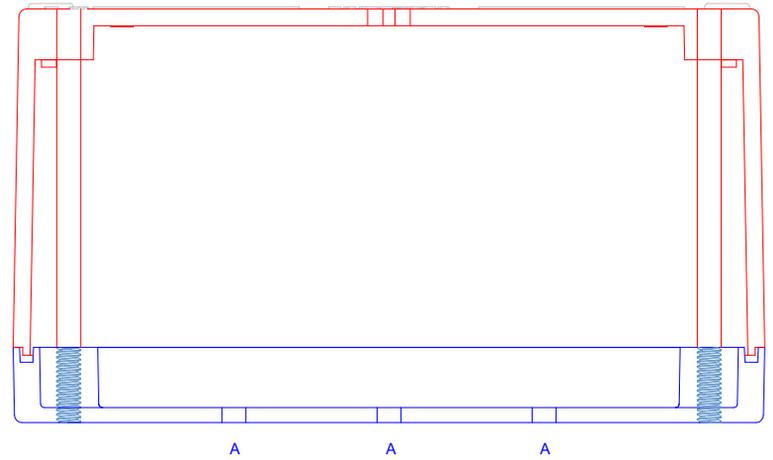
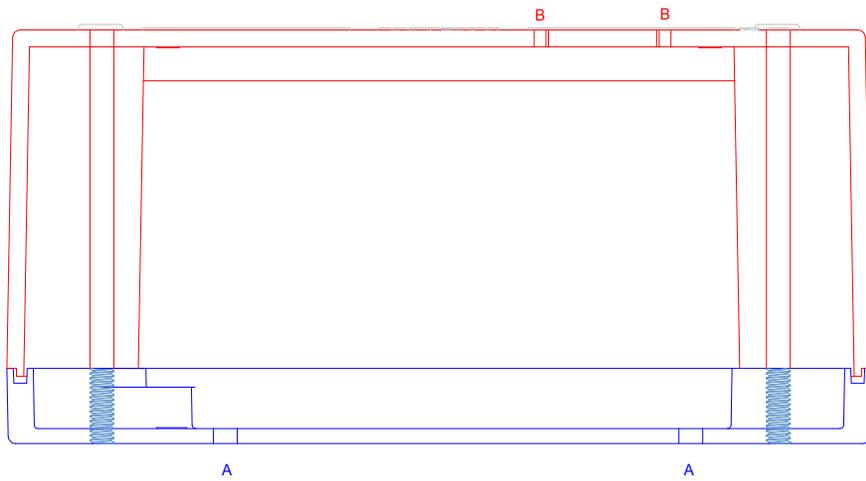
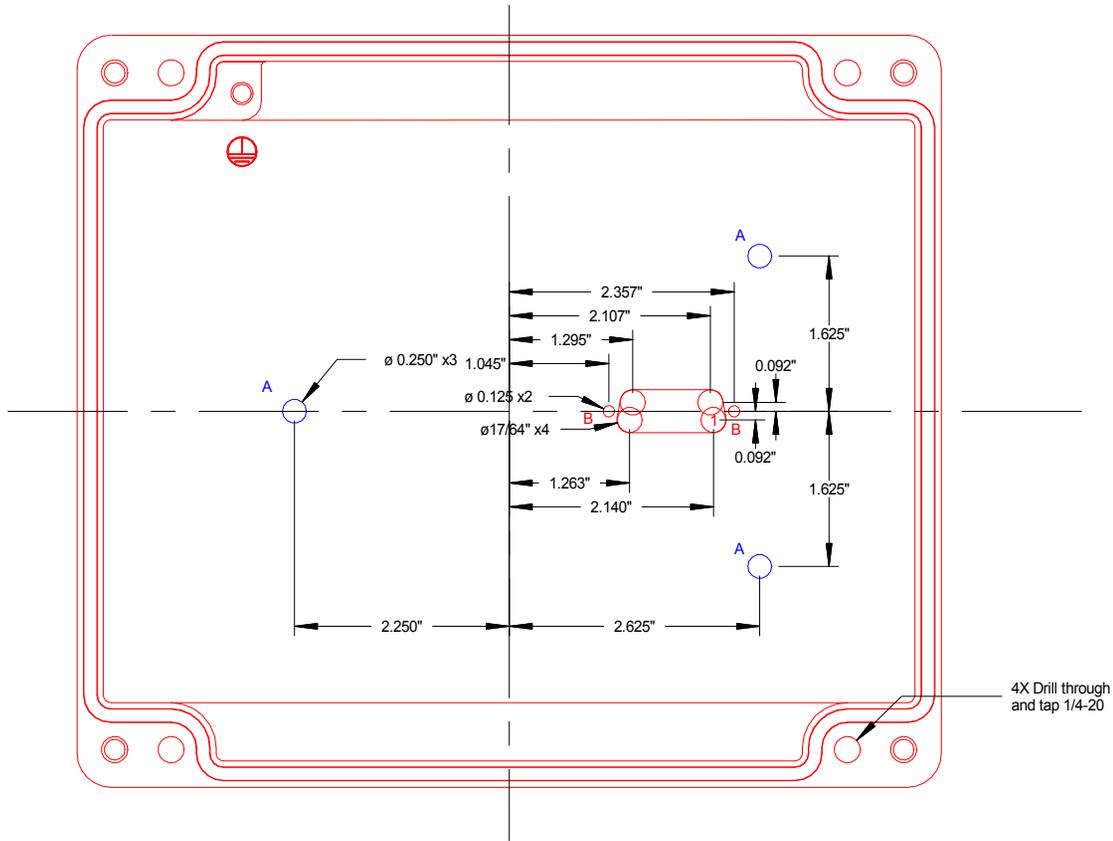
	Yuma2 Warplless Design	
Rev. 4.3	29 June, 2015	
	B. Nordgren	



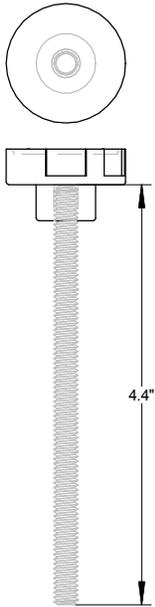
- A - Drill #21 0.75" deep and tap 10-32
- B - Drill through 0.25" dia.
- C - Drill through #21
Counterbore 11/32" dia 0.215" deep
- D - Drill through #27
Counterbore 0.25" dia 0.234" deep
- E - Drill through #36
Counterbore #27 0.75" deep
Tap 6-32
- F - Drill #21 0.562" deep and tap 10-32



Yuma2 Base	
Rev. 4.3	11 November, 2015 B. Nordgren
6061-T6 Aluminum 1" x 4"	

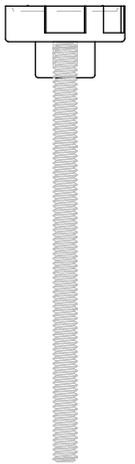


		Yuma2 Case	
Rev. 4.3	9 July, 2015		Hammond Mfg. # 15902231
	B. Nordgren		

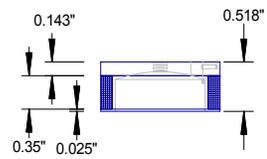
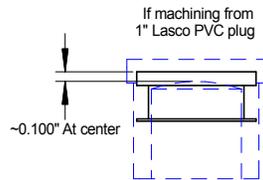
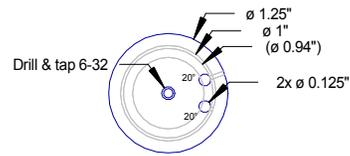


1/4-20 Threaded
Brass Rod

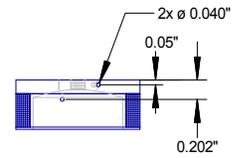
4.4"



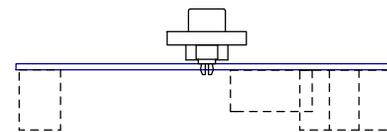
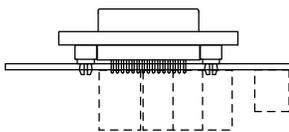
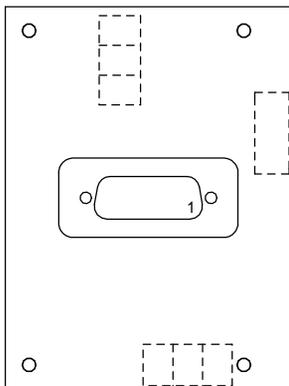
	Yuma2 Knobs	
Rev. 4.3	28 June, 2015 B. Nordgren	Threaded 1/4-20 McMaster# 6479K54



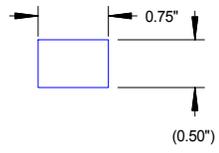
Coil: 520-550 turns #34 AWG
~40 Ohms



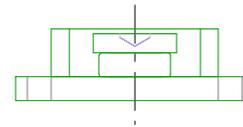
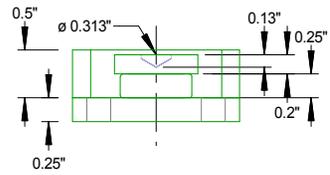
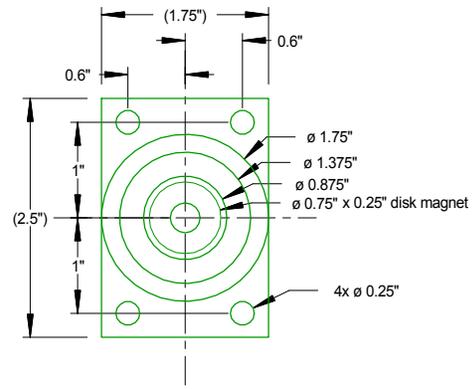
		Yuma2 Coil	
Rev. 4.3	15 November, 2015		PVC Plastic #34 AWG Wire
	B. Nordgren		



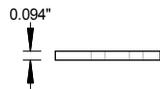
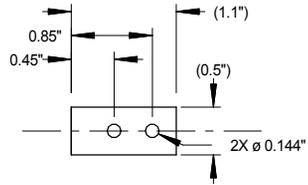
	Yuma2 Electronics Board	
Rev. 4.3	28 June, 2015	
	B. Nordgren	



	Yuma2 Flexures	
Rev. 4.3	28 June, 2015 B. Nordgren	0.5" x 0.003" Kapton HN Polyimide Film



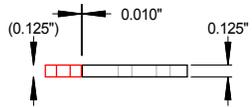
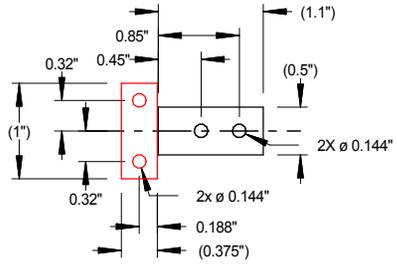
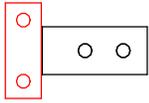
		Yuma2 Magnet	
Rev. 4.3	28 June, 2015 B. Nordgren	1018 Low Carbon Steel N45+ NdFeB Magnet	



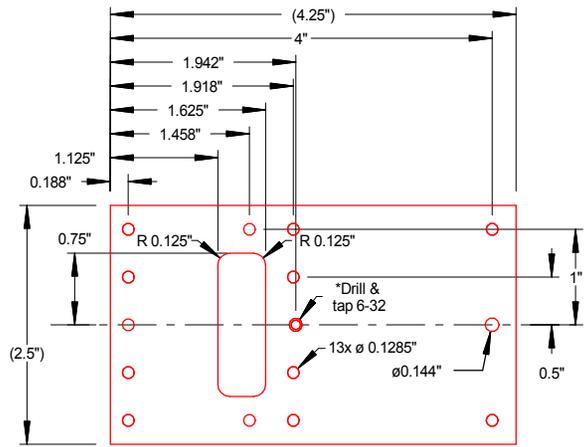
	Yuma2 Pivot Shims	
Rev. 4.3	28 June, 2015 B. Nordgren	360 or 385 Brass



	Yuma2 Sensor Plate	
Rev. 4.3	28 June, 2015	
	B. Nordgren	



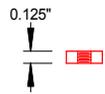
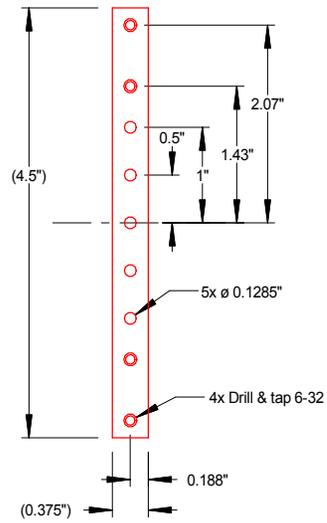
		Yuma2 Pivot Clamps	
Rev. 4.3	28 June, 2015		360 or 385 Brass 1/8"
	B. Nordgren		



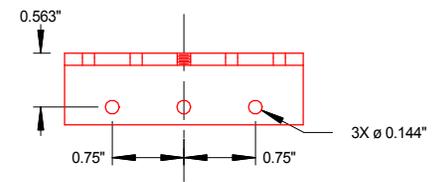
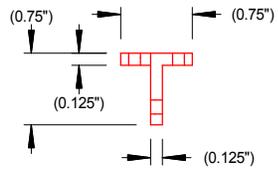
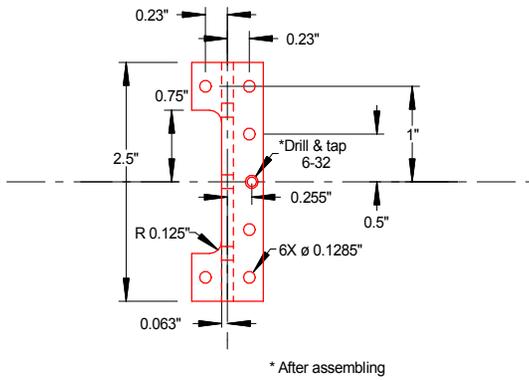
* After assembling



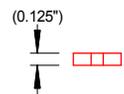
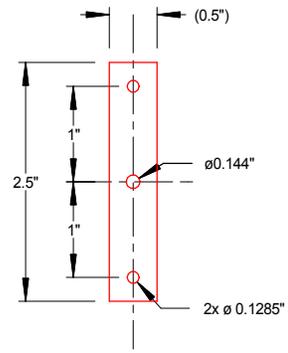
		Yuma2 Top Plate	
Rev. 4.3	29 June, 2015 B. Nordgren	6061-T6 Aluminum 1/8" x 2.5"	



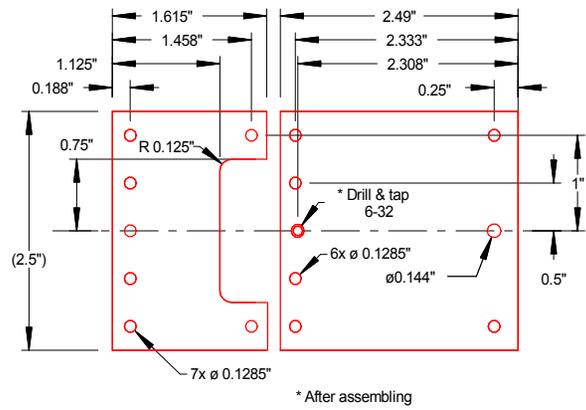
		Yuma2 Spacer-1	
Rev. 4.3	28 June, 2015		360 or 385 Brass 1/8" x 3/8"
	B. Nordgren		



		Yuma2 Spacer-2	
Rev. 4.3	28 June, 2015 B. Nordgren	6063-T5 Aluminum 3/4" x 3/4" x 1/8"	

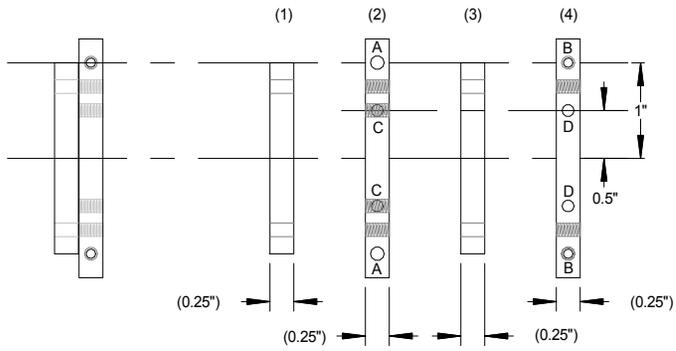


		Yuma2 Spacer-3	
Rev. 4.3	28 June, 2015		6061-T6 Aluminum 1/8" x 1/2"
	B. Nordgren		

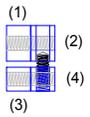
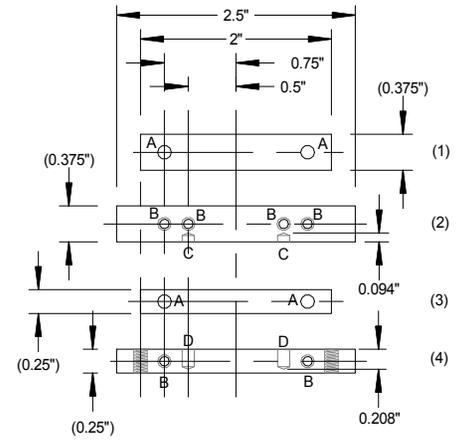


note: Tap holes
after assembly.

Yuma2 Bottom Plates		
Rev. 4.3	28 June, 2015 B. Nordgren	6061-T6 Aluminum 2.5" x 0.25"

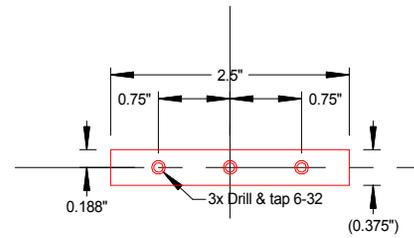
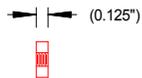


A - Drill through 0.144" dia
 B - Drill through #36 Tap 6-32
 C - Drill 1/8" dia 0.094" deep
 D - Drill 1/8" dia 0.208" deep

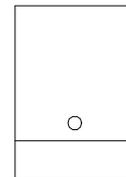
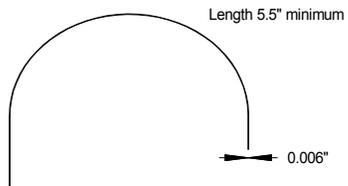
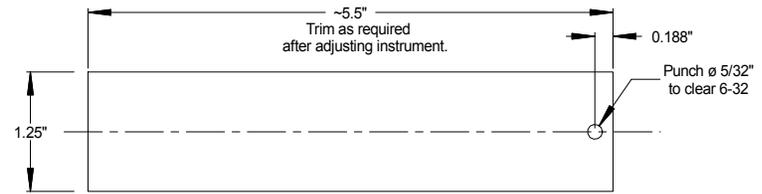


Springs - 1/2 McMaster 9657K295

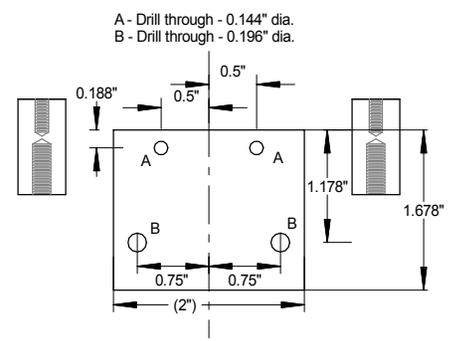
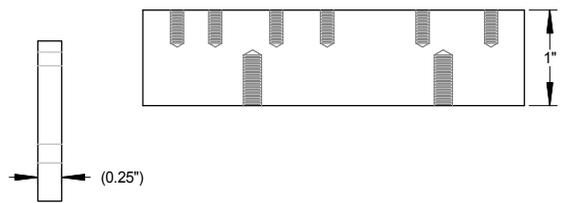
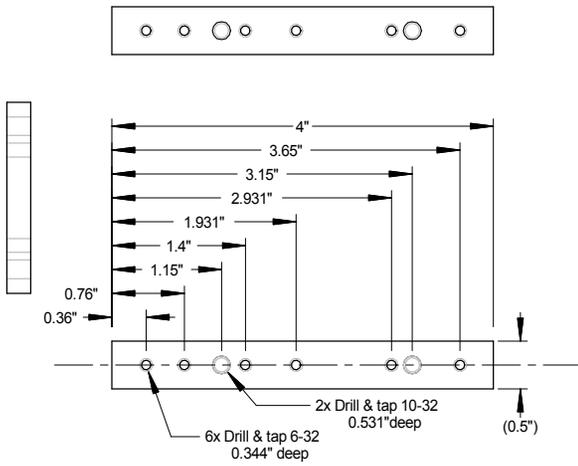
Yuma2 Spring Clamp-1	
Rev. 4.3	9 July, 2015
	B. Nordgren
360 or 385 Brass	



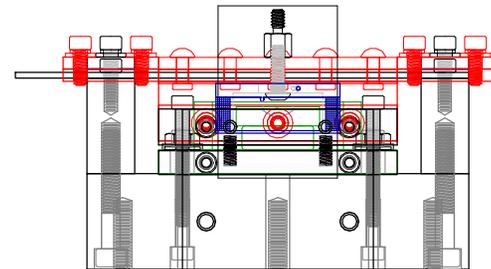
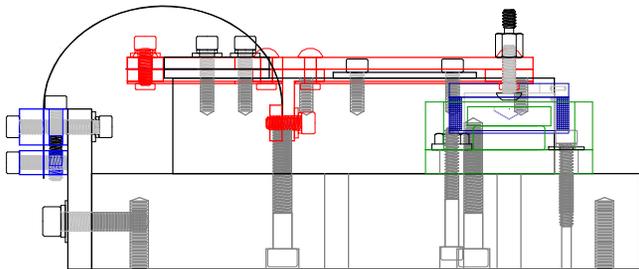
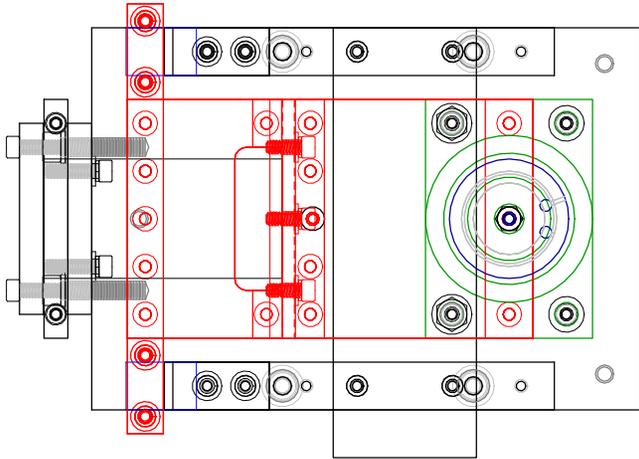
		Yuma2 Spring Clamp-2	
Rev. 4.3	5 March, 2018	360 or 385 Brass 1/8" x 3/8" * May change to Aluminum	
	B. Nordgren		



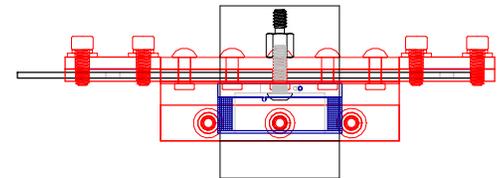
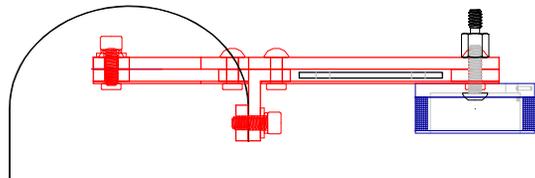
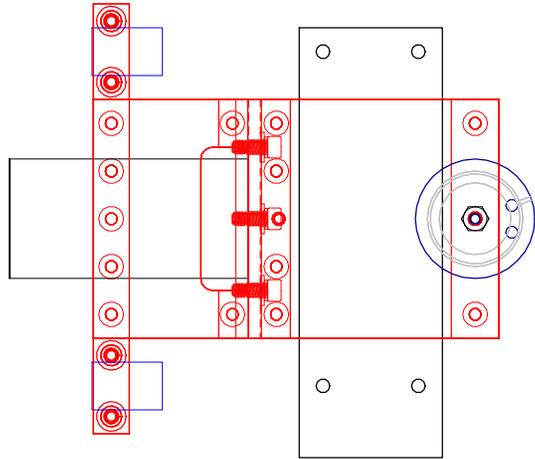
	Yuma2 Spring	
Rev. 4.3	29 June, 2015 B. Nordgren	0.006" 17-7 Stainless Hardened to State CH900



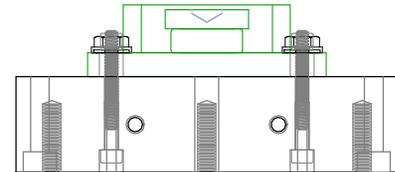
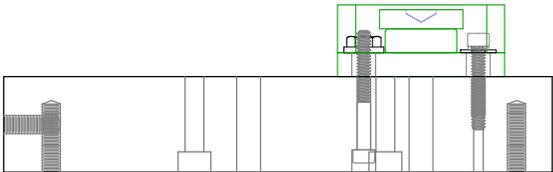
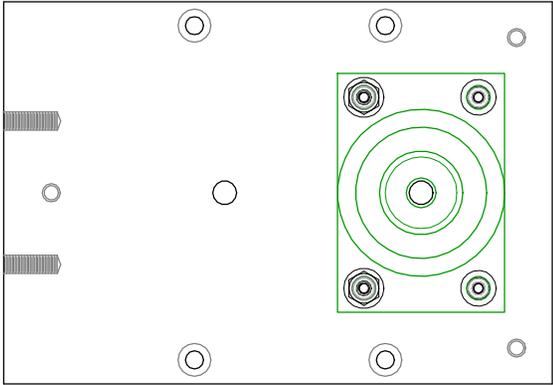
Yuma2 Towers		
Rev. 4.3	29 June, 2015 B. Nordgren	6061-T6 Aluminum



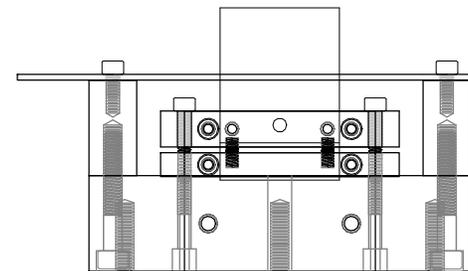
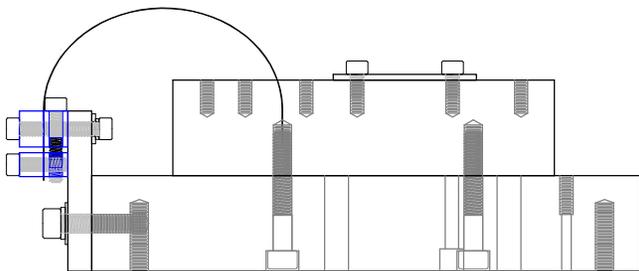
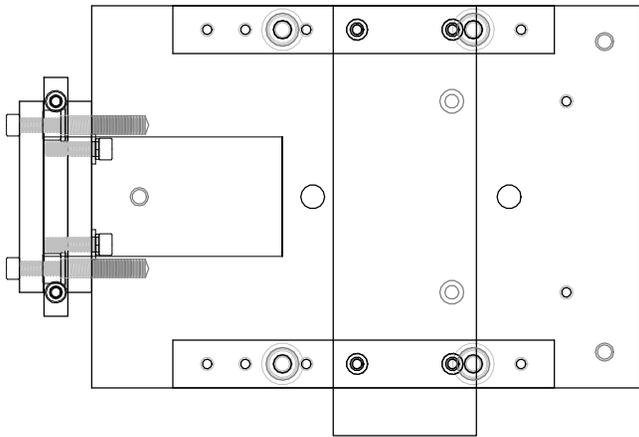
		Yuma2 Mechanical Assembly	
Rev. 4.3	29 June, 2015		
	B. Nordgren		



	Yuma2 Boom Assembly	
Rev. 4.3	29 June, 2015	
	B. Nordgren	



	Yuma2 Magnet Assembly	
Rev. 4.3	29 June, 2015	
	B. Nordgren	



		Yuma2 Base Assembly	
Rev. 4.3		29 June, 2015	
		B. Nordgren	