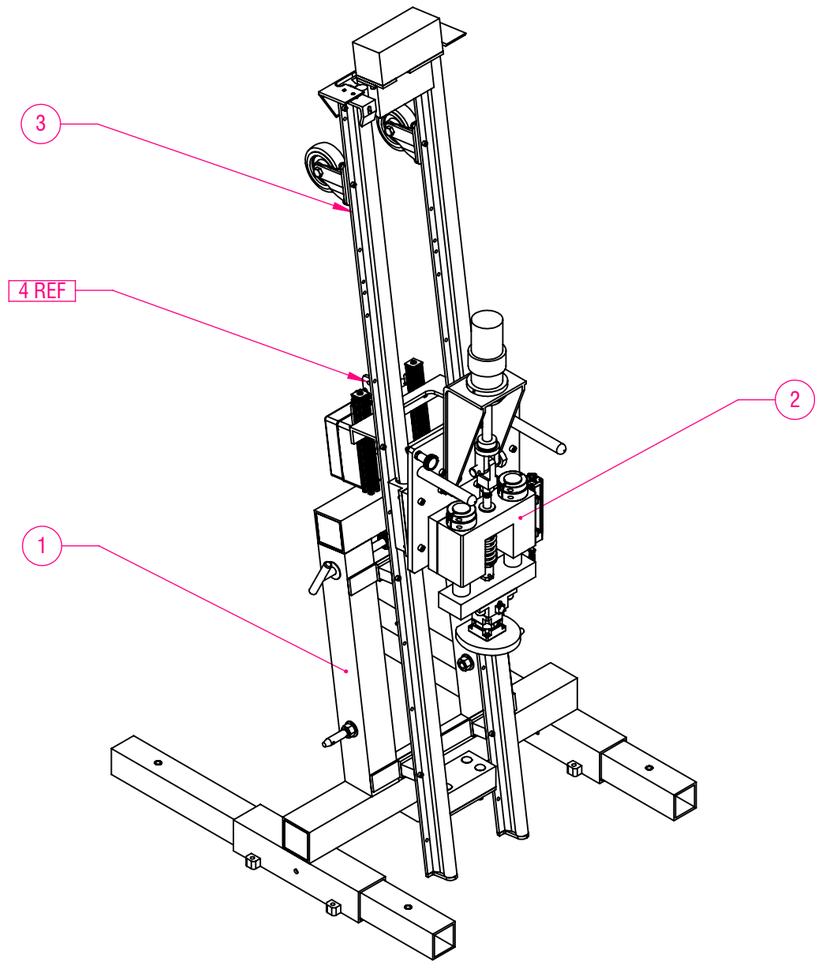
REVISIONS		
REV.	DESCRIPTION	DATE



ITEM NO.	DRAWING NUMBER	DESCRIPTION	QTY.
1	OBST-002	FRAME WELDMENT	1
2	OBST-025	HOOF PLATE ASSEMBLY	1
3	OBST-008	FRAME ASSEMBLY	1
4	IGUS 20.1.055	CABLE CARRIER	1

ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED.

UNLESS OTHERWISE SPECIFIED, INTERPRET GD&T PER ASME Y14.5-2009, THREADS PER ASME Y14.6-2001, AND WELDING PER AWS D1.1-2010

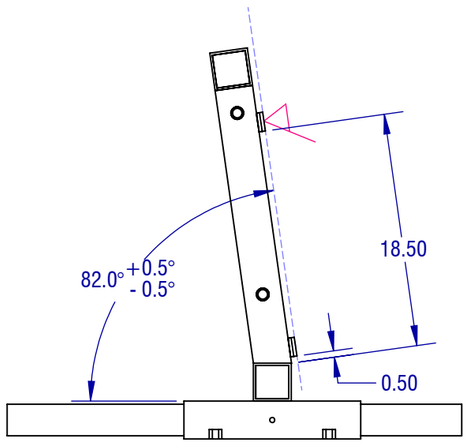
STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

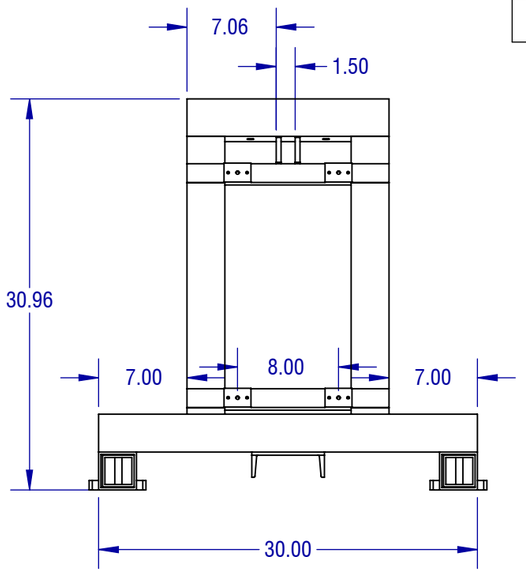
	FRAC	ANG	X.X	X.XX	X.XXX
FAB	+/- 1/16	+/- 0.5°	+/- 0.1	+/- 0.06	N/A
MACH	+/- 1/64	+/- 0.1°	+/- 0.1	+/- 0.01	+/- 0.005

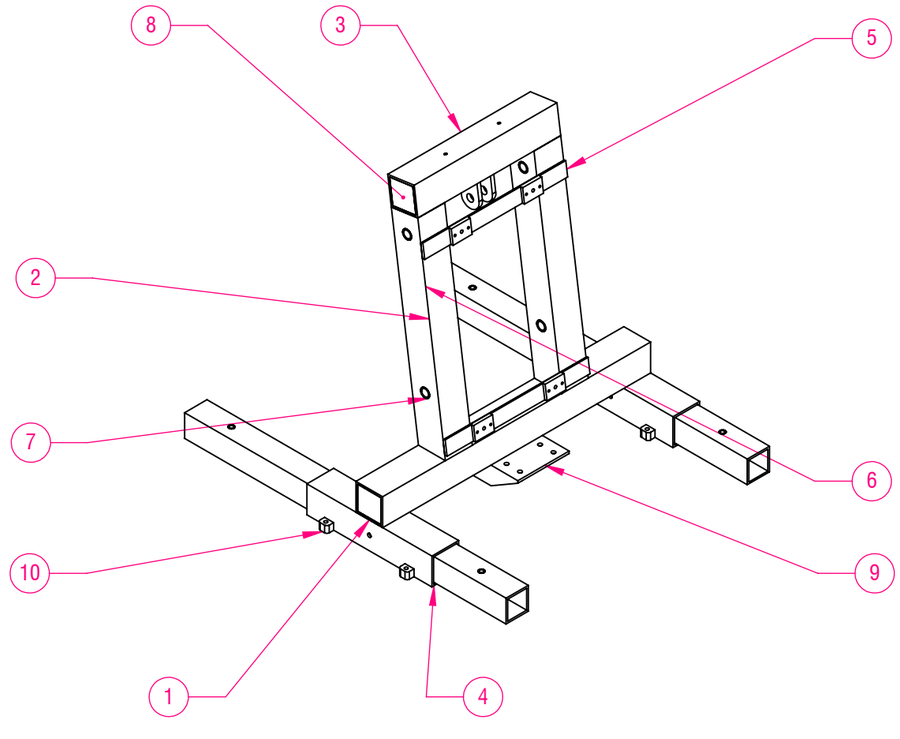
FINISH 125 UNLESS SPECIFIED
REMOVE BURRS AND SHARP EDGES

TITLE: **MASTER ASSEMBLY**					DRAWING NO.: OBST-001	
MODELED: M. BARRINGTON	DATE: 15-JAN-2015	DRAWN FOR: BIOLOGICALLY APPLIED ENGINEERING				
DRAWN: M. BARRINGTON	27-JAN-2015	MATERIAL: VAROUS				
CHECKED: R. BEAUMONT	20-FEB-2015	WEIGHT (LB): 129.79		PROJ NO.: 2015-P01		
APPROVED: M. PETERSON	20-FEB-2015	SIZE: B	SCALE: 1:24	REV: --	SHEET: 1 OF 1	

REVISIONS		
REV.	DESCRIPTION	DATE







ITEM NO.	PART/DWG NUMBER	DESCRIPTION	QTY.
1	OBST-004	BOTTOM TUBE	1
2	OBST-005	SIDE TUBE	2
3	OBST-003	TOP TUBE	1
4	OBST-005	TUBE SLEEVE	2
5	OBST-006	RAIL MOUNT BAR	2
6	OBST-004	LATERAL LEG	2
7	OBST-005	FRAME INSERT	4
8	OBST-003	FRAME END CAP	4
9	OBST-007	STOP PLATE	1
10	OBST-005	WELD ON BOLT HOLES	8

ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED.

UNLESS OTHERWISE SPECIFIED, INTERPRET GD&T PER ASME Y14.5-2009. THREADS PER ASME Y14.6-2001, AND WELDING PER AWS D1.1-2010

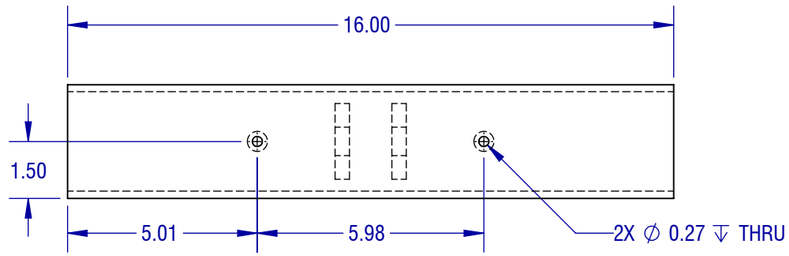
STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

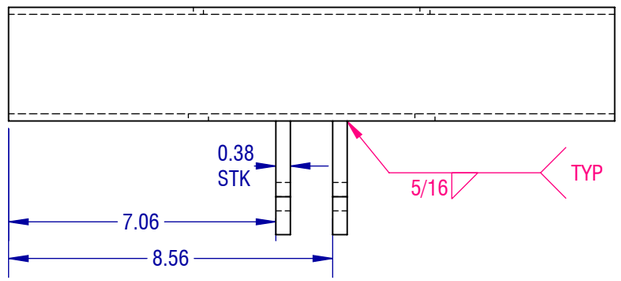
	FRAC	ANG	X.X	X.XX	X.XXX
FAB	+/- 1/16	+/- 0.5°	+/- 0.1	+/- 0.06	N/A
MACH	+/- 1/64	+/- 0.1°	+/- 0.1	+/- 0.01	+/- 0.005

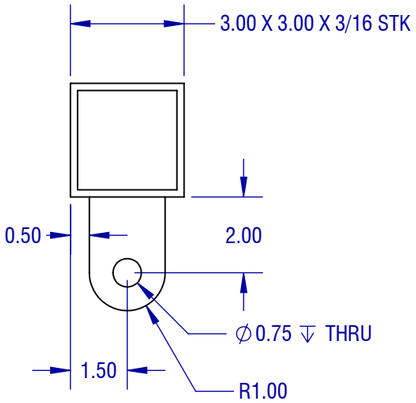
FINISH 125 UNLESS SPECIFIED
REMOVE BURRS AND SHARP EDGES

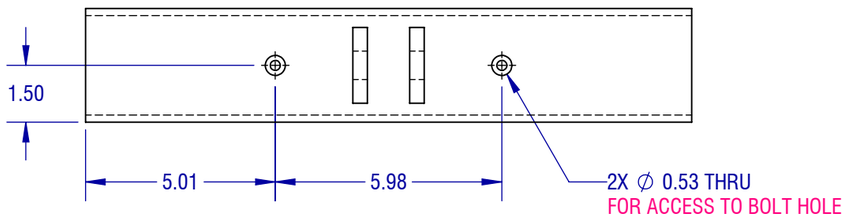
TITLE: **FRAME WELDMENT**				DRAWING NO.: OBST-002	
MODELED: M. BARRINGTON	DATE: 15-JAN-2015	DRAWN FOR: BIOLOGICALLY APPLIED ENGINEERING			
DRAWN: M. BARRINGTON	20-JAN-2015	MATERIAL: ALUMINUM 6061 T6			
CHECKED: R. BEAUMONT	20-FEB-2015	WEIGHT (LB): 37.51		PROJ NO.: 2015-P01	
APPROVED: M. PETERSON	20-FEB-2015	SIZE: B	SCALE: 1:12	REV: --	SHEET: 1 OF 6

REVISIONS		
REV.	DESCRIPTION	DATE







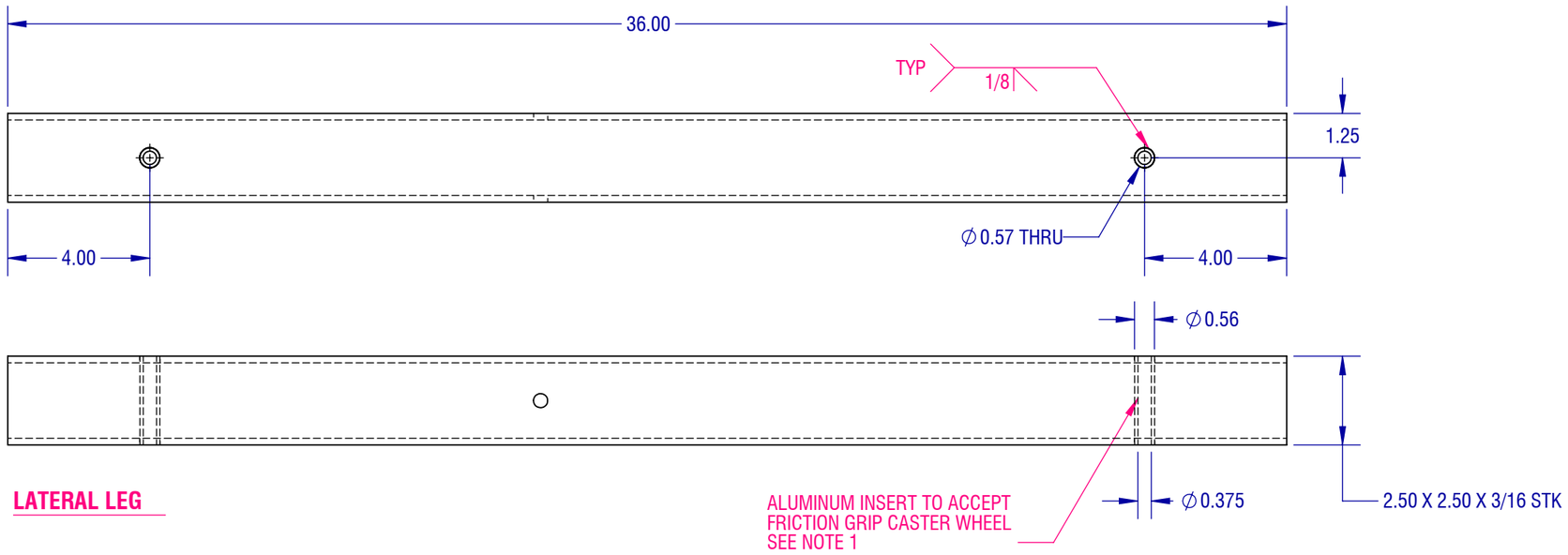


3 TOP TUBE

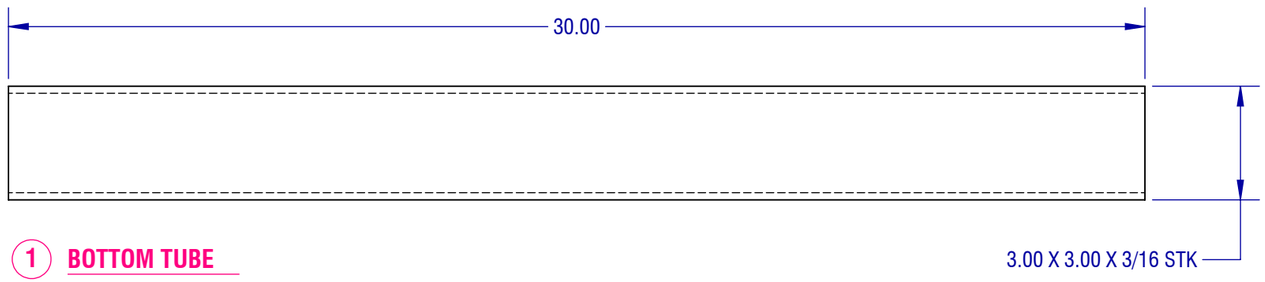
ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED. UNLESS OTHERWISE SPECIFIED, INTERPRET GD&T PER ASME Y14.5-2009, THREADS PER ASME Y14.6-2001, AND WELDING PER AWS D1.1-2010					
STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED					
	FRAC	ANG	X.X	X.XX	X.XXX
FAB	+/- 1/16	+/- 0.5°	+/- 0.1	+/- 0.06	N/A
MACH	+/- 1/64	+/- 0.1°	+/- 0.1	+/- 0.01	+/- 0.005
FINISH 125 UNLESS SPECIFIED REMOVE BURRS AND SHARP EDGES					

TITLE: **FRAME WELDMENT**				DRAWING NO.: OBST-003	
MODELED: M. BARRINGTON	DATE: 15-JAN-2015	DRAWN FOR: BIOLOGICALLY APPLIED ENGINEERING			
DRAWN: M. BARRINGTON	20-JAN-2015	MATERIAL: ALUMINUM 6061 T6			
CHECKED: R. BEAUMONT	20-FEB-2015	WEIGHT (LB): N/A		PROJ NO.: 2015-P01	
APPROVED: M. PETERSON	20-FEB-2015	SIZE: B	SCALE: 1:4	REV: --	SHEET: 2 OF 6

REVISIONS		
REV.	DESCRIPTION	DATE



LATERAL LEG



(1) **BOTTOM TUBE**

NOTE:

1) CASTER WHEEL PART NUMBER: MMC-2512T610

ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED.

UNLESS OTHERWISE SPECIFIED, INTERPRET GD&T PER ASME Y14.5-2009, THREADS PER ASME Y14.6-2001, AND WELDING PER AWS D1.1-2010

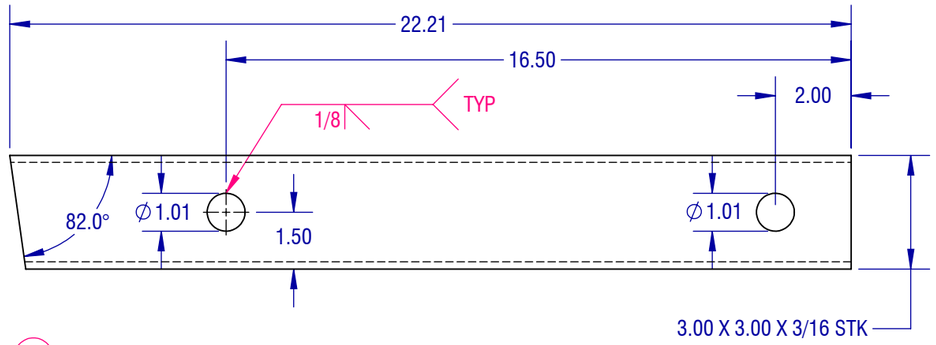
STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

	FRAC	ANG	X.X	X.XX	X.XXX
FAB	+/- 1/16	+/- 0.5°	+/- 0.1	+/- 0.06	N/A
MACH	+/- 1/64	+/- 0.1°	+/- 0.1	+/- 0.01	+/- 0.005

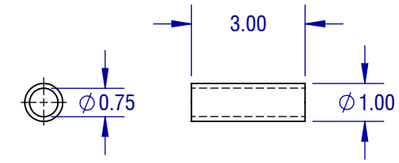
FINISH 125 UNLESS SPECIFIED
REMOVE BURRS AND SHARP EDGES

TITLE: **FRAME WELDMENT**			DRAWING NO.: OBST-004
MODELED: M. BARRINGTON	DATE: 15-JAN-2015	DRAWN FOR: BIOLOGICALLY APPLIED ENGINEERING	
DRAWN: M. BARRINGTON	20-JAN-2015	MATERIAL: ALUMINUM 6061 T6	
CHECKED: R. BEAUMONT	20-FEB-2015	WEIGHT (LB): N/A	PROJ NO.: 2015-P01
APPROVED: M. PETERSON	20-FEB-2015	SIZE: B / SCALE: 1:8 / REV: -- / SHEET: 3 OF 6	

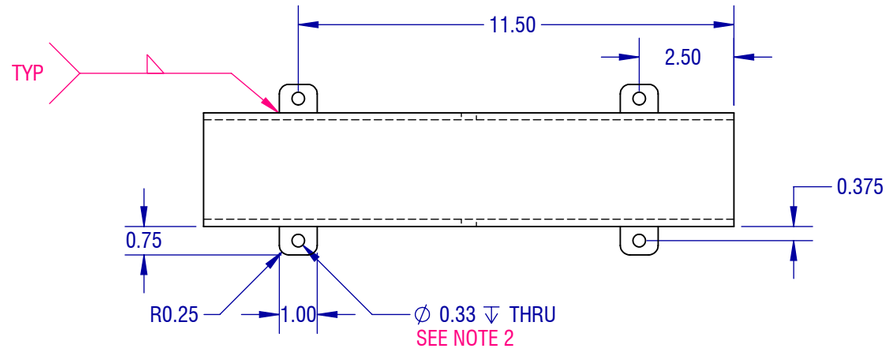
REVISIONS		
REV.	DESCRIPTION	DATE

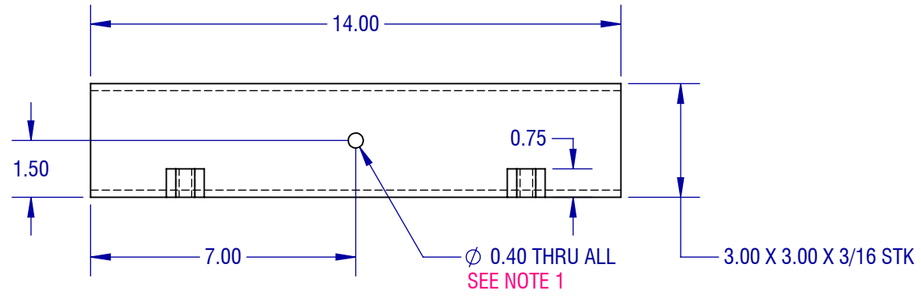


2 SIDE TUBE



7 FRAME INSERT





4 TUBE SLEEVE

NOTE:

1) TO ACCEPT A 3/8" HITCH PIN. MMC-94563A571

2) TO ACCEPT 5/16-11 UNC SHCS, TO FIX 4 ° WEDGE FEET

ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED.

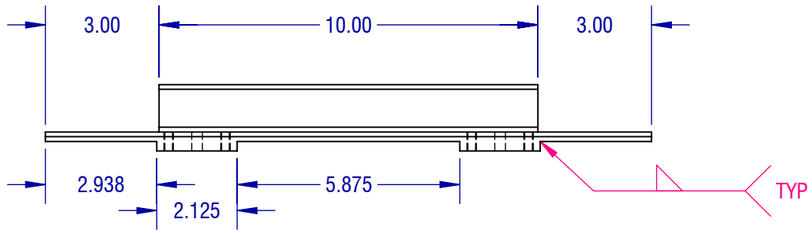
UNLESS OTHERWISE SPECIFIED, INTERPRET GD&T PER ASME Y14.5-2009, THREADS PER ASME Y14.6-2001, AND WELDING PER AWS D1.1-2010

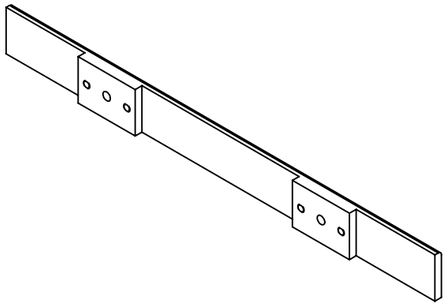
STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

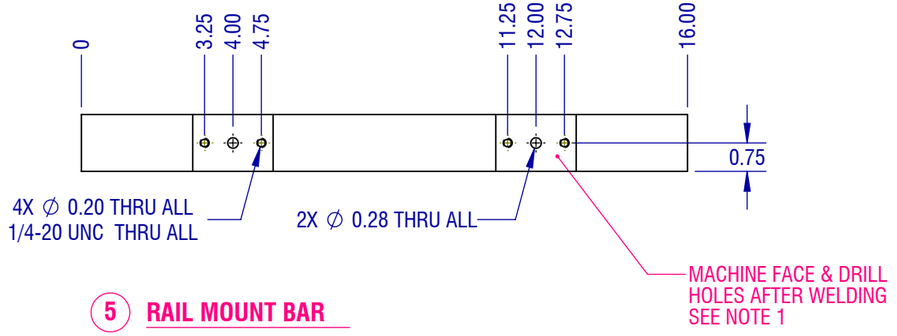
	FRAC	ANG	X.X	X.XX	X.XXX
FAB	+/- 1/16	+/- 0.5°	+/- 0.1	+/- 0.06	N/A
MACH	+/- 1/64	+/- 0.1°	+/- 0.1	+/- 0.01	+/- 0.005

FINISH 125 UNLESS SPECIFIED
REMOVE BURRS AND SHARP EDGES

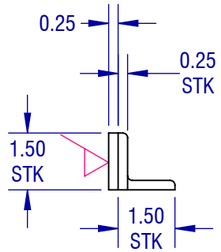
TITLE: **FRAME WELDMENT**			DRAWING NO.: OBST-005
MODELED: M. BARRINGTON	DATE: 15-JAN-2015	DRAWN FOR: BIOLOGICALLY APPLIED ENGINEERING	
DRAWN: M. BARRINGTON	17-FEB-2015	MATERIAL: ALUMINUM 6061 T6	
CHECKED: R. BEAUMONT	20-FEB-2015	WEIGHT (LB): N/A	PROJ NO.: 2015-P01
APPROVED: M. PETERSON	20-FEB-2015	SIZE: B / SCALE: 1:8	REV: -- / SHEET: 4 OF 6







5 RAIL MOUNT BAR

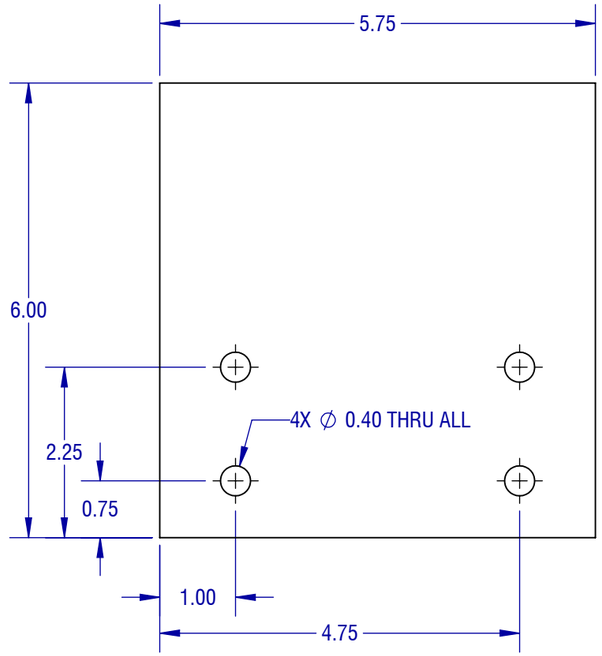


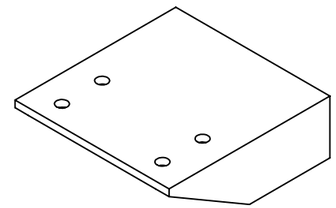
NOTE:

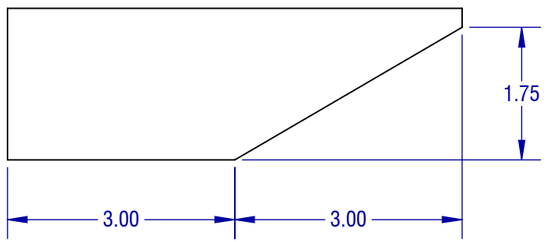
1) MACHINE ALL FOUR FACES TO ENSURE THE CORRECT FRAME WELDMENT ANGLE OF 12°

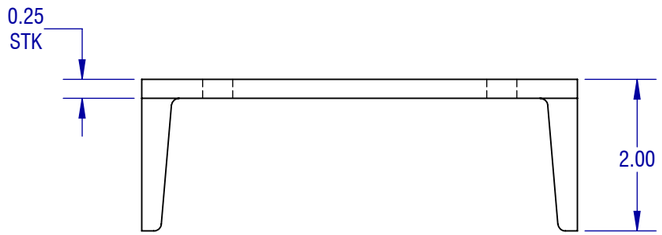
ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED. UNLESS OTHERWISE SPECIFIED, INTERPRET GD&T PER ASME Y14.5-2009. THREADS PER ASME Y14.6-2001, AND WELDING PER AWS D1.1-2010						TITLE: **FRAME WELDMENT**			DRAWING NO.: OBST-006	
STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED						MODELED: M. BARRINGTON	DATE: 15-JAN-2015	DRAWN FOR: BIOLOGICALLY APPLIED ENGINEERING		
	FRAC	ANG	X.X	X.XX	X.XXX	DRAWN: M. BARRINGTON	17-FEB-2015	MATERIAL: ALUMINUM 6061 T6		
FAB	+/- 1/16	+/- 0.5°	+/- 0.1	+/- 0.06	N/A	CHECKED: R. BEAUMONT	20-FEB-2015	WEIGHT (LB): N/A	PROJ NO.: 2015-P01	
MACH	+/- 1/64	+/- 0.1°	+/- 0.1	+/- 0.01	+/- 0.005					
FINISH 125 UNLESS SPECIFIED REMOVE BURRS AND SHARP EDGES						APPROVED: M. PETERSON	20-FEB-2015	SIZE: B	SCALE: 1:8	REV: -- SHEET: 5 OF 6

REVISIONS		
REV.	DESCRIPTION	DATE









NOTE:

1) USE CHANNEL STOCK OR FABRICATE

ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED.

UNLESS OTHERWISE SPECIFIED, INTERPRET GD&T PER ASME Y14.5-2009, THREADS PER ASME Y14.6-2001, AND WELDING PER AWS D1.1-2010

STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

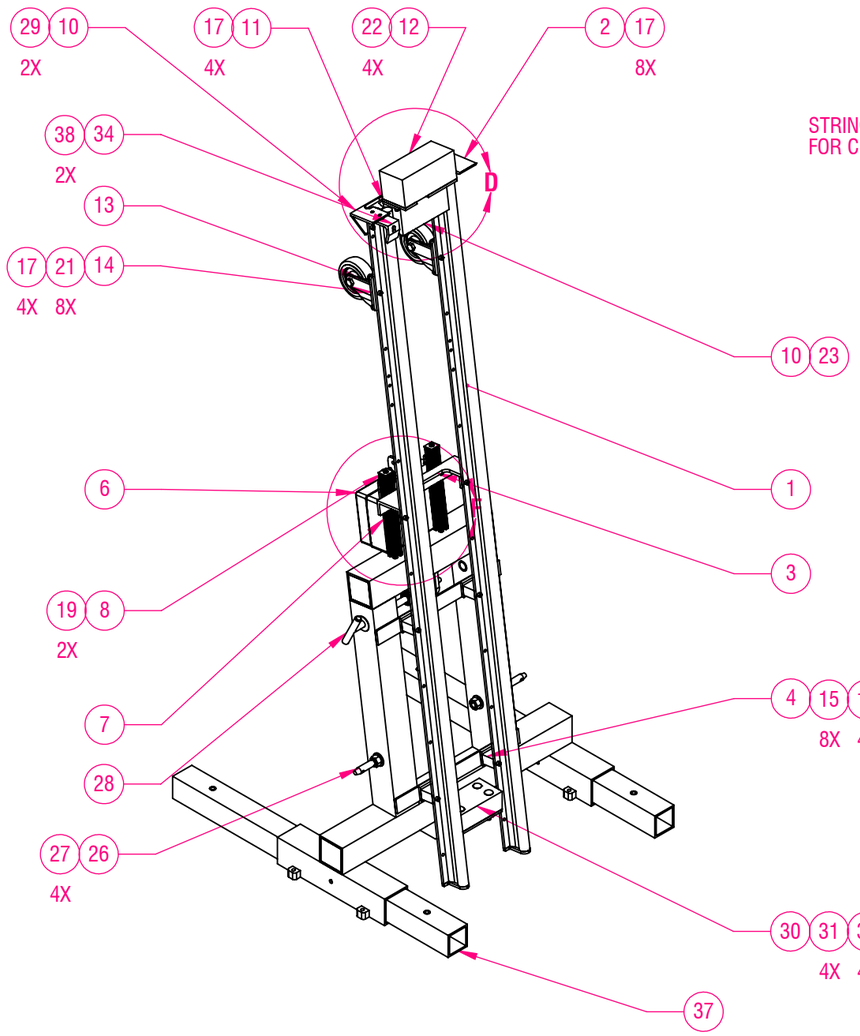
	FRAC	ANG	X.X	X.XX	X.XXX
FAB	+/- 1/16	+/- 0.5°	+/- 0.1	+/- 0.06	N/A
MACH	+/- 1/64	+/- 0.1°	+/- 0.1	+/- 0.01	+/- 0.005

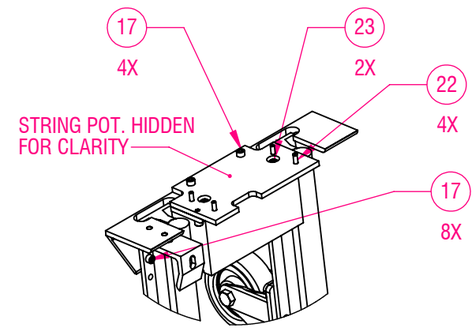
FINISH 125 UNLESS SPECIFIED
REMOVE BURRS AND SHARP EDGES

TITLE: **STOP PLATE**				DRAWING NO.: OBST-007	
MODELED: M. BARRINGTON	DATE: 14-FEB-2015	DRAWN FOR: BIOLOGICALLY APPLIED ENGINEERING			
DRAWN: M. BARRINGTON	20-FEB-2015	MATERIAL: ALUMINUM 6061 T6			
CHECKED: R. BEAUMONT	20-FEB-2015	WEIGHT (LB): N/A	PROJ NO.: 2015-P01		
APPROVED: M. PETERSON	20-FEB-2015	SIZE: B	SCALE: 1:2	REV: --	SHEET: 6 OF 6

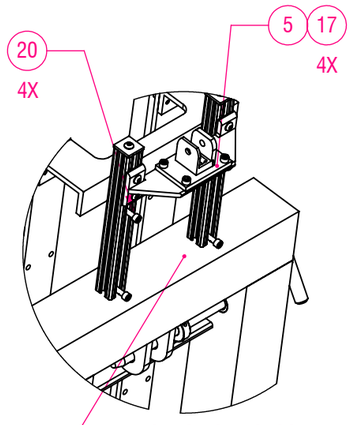
ITEM NO.	PART/DWG NUMBER	DESCRIPTION	QTY.
1	OBST-019	LINEAR RAIL ASSEMBLY	2
2	OBST-009	TOP ANGLE	1
3	OBST-012	BOTTOM CHANNEL	1
4	OBST-013	RAIL MOUNT SPACER	4
5	OBST-014	CABLE CARRIER	1
6	MMC-7301K34	ELECTRONICS ENCLOSURE 6-3/4" x 5-1/2"	1
7	OBST-018	T-SLOT RAIL, 1" MMC47065T209	2
8	MMC-47065T91	T-SLOT RAIL END CAP, 1"	2
9	OBST-011	MIL CONNECTOR BLOCK	1
10	MMC-5684K22	ELECTRO MAGNET	1
11	OBST-021	STRING POTENTIOMETER MOUNT	1
12	PTSA-100-N34-DN-500-M6	STRING POTENTIOMETER	1
13	MMC-3238T120	FIXED WHEEL	2
14	OBST-020	FIXED WHEEL MOUNT	2
15	MMC-90128A254	HX-SHCS 0.25-20x2.25x1.25-N	8
16	MMC-90128A251	HX-SHCS 0.25-20x1.5x1-N	4
17	MMC-90128A242	HX-SHCS 0.25-20x0.5x0.5-N	24
18	MMC-90128A247	HX-SHCS 0.25-20x1x1-N	2
19	MMC-91306A373	SBHCSCREW 0.25-20x0.375-HX-N	2
20	MMC-90128A245	HX-SHCS 0.25-20x0.75x0.75-N	4
21	MMC-90128A136	HX-SHCS 0.3125-18x0.375x0.375-N	8
22	MMC-90128A220	HX-SHCS 0.19-24x0.5x0.5-N	4
23	MMC-91306A387	SBHCSCREW 0.3125-18x0.75-HX-N	2
24	MMC-90128A221	HX-SHCS 0.19-24x0.625x0.625-N	2
25	MMC-97763A263	SBHCSCREW 0.25-20x0.5-HX-N	6
26	OBST-022	THREE POINT HITCH PIN	2
27	MMC-90499A832	HNUT 0.6250-11-D-N	4
28	OBST-023	HITCH PIN	1
29	MMC-6436K15	SPLIT COLLAR, 5/8"	1
30	OBST-024	WOODEN BLOCK	1
31	MMC-90185A636	RHSNBOLT 0.375-16x3x1-N	4
32	MMC-90108A417	Preferred Narrow FW 0.375	4
33	MMC-95005A130	HNUT 0.3750-16-D-N	4
34	OBST-010	LATCHING BRACKET	1
35	OBST-017	CABLE CARRIER MOUNT T-BAR	1
36	OBST-020	LINEAR RAIL END CAP	2
37	OBST-002	FRAME WELDMENT	1
38	MMC-91251A578	HX-SHCS 0.3125-18x0.5x0.5-N	2

REVISIONS		
REV.	DESCRIPTION	DATE





DETAIL D
SCALE 1 : 7



ROTATED VIEW
DETAIL F
SCALE 1 : 7

ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED.

UNLESS OTHERWISE SPECIFIED, INTERPRET GD&T PER ASME Y14.5-2009, THREADS PER ASME Y14.6-2001, AND WELDING PER AWS D1.1-2010

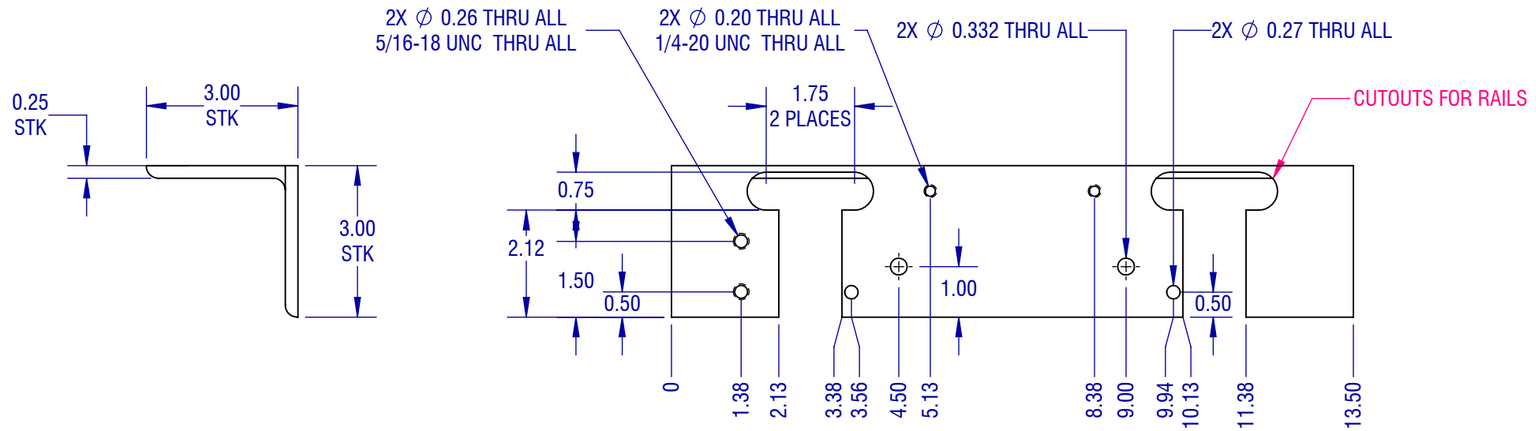
STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

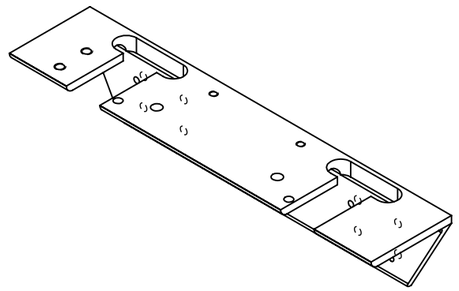
	FRAC	ANG	X.X	X.XX	X.XXX
FAB	+/- 1/16	+/- 0.5°	+/- 0.1	+/- 0.06	N/A
MACH	+/- 1/64	+/- 0.1°	+/- 0.1	+/- 0.01	+/- 0.005

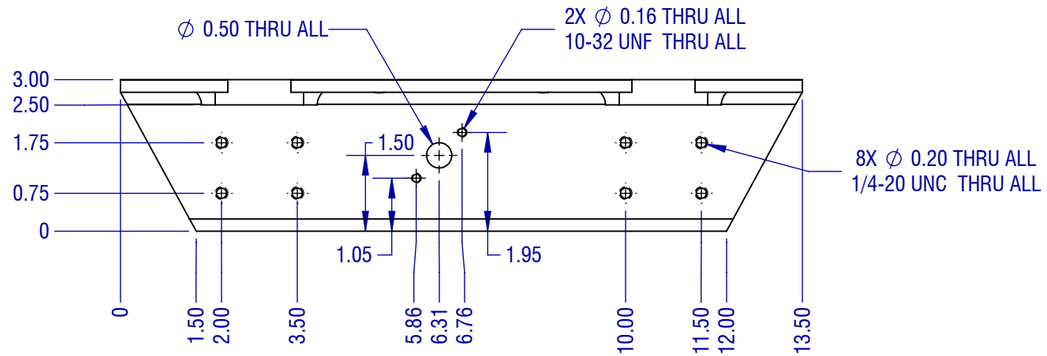
FINISH 125 UNLESS SPECIFIED
REMOVE BURRS AND SHARP EDGES

TITLE: **FRAME ASSEMBLY**				DRAWING NO.: OBST-008	
MODELED: M. BARRINGTON	DATE: 15-JAN-2015	DRAWN FOR: BIOLOGICALLY APPLIED ENGINEERING			
DRAWN: M. BARRINGTON	16-JAN-2015	MATERIAL: VAROUS			
CHECKED: R. BEAUMONT	20-FEB-2015	WEIGHT (LB): 58.02		PROJ NO.: 2015-P01	
APPROVED: M. PETERSON	20-FEB-2015	SIZE: B	SCALE: 1:24	REV: --	SHEET: 1 OF 17

REVISIONS		
REV.	DESCRIPTION	DATE



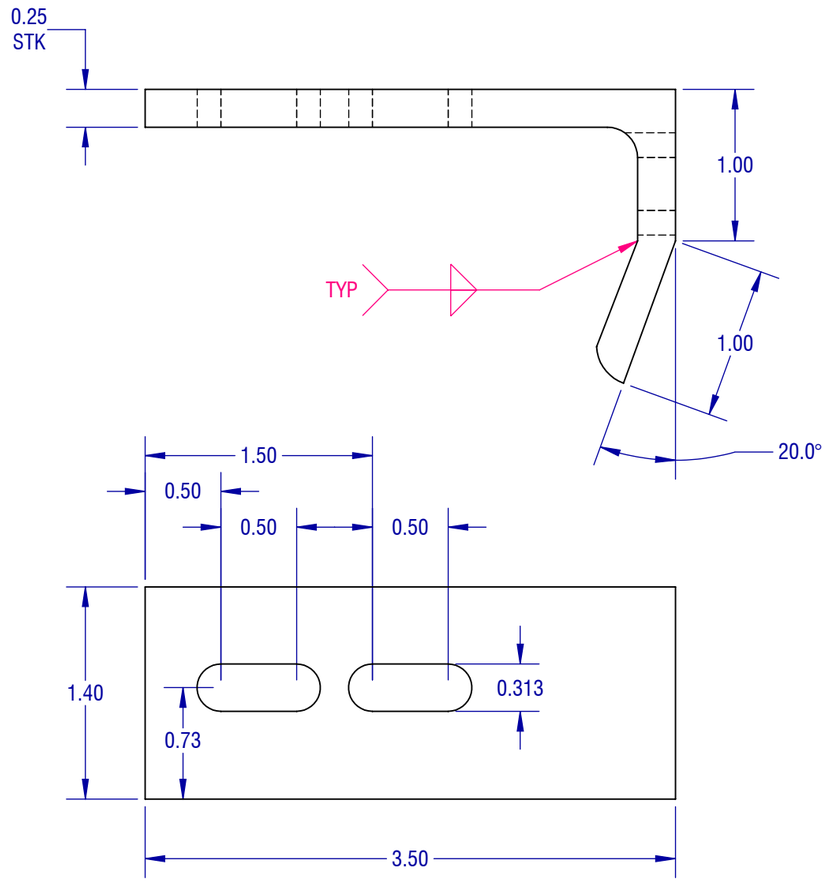


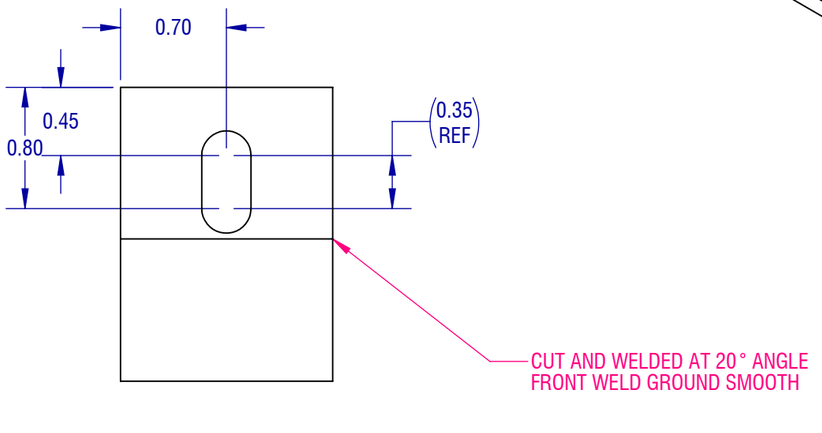


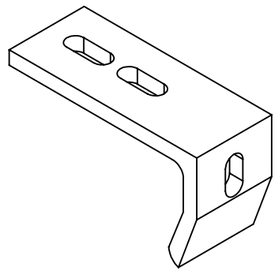
ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED. UNLESS OTHERWISE SPECIFIED, INTERPRET GD&T PER ASME Y14.5-2009, THREADS PER ASME Y14.6-2001, AND WELDING PER AWS D1.1-2010					
STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED					
	FRAC	ANG	X.X	X.XX	X.XXX
FAB	+/- 1/16	+/- 0.5°	+/- 0.1	+/- 0.06	N/A
MACH	+/- 1/64	+/- 0.1°	+/- 0.1	+/- 0.01	+/- 0.005
FINISH 125 UNLESS SPECIFIED REMOVE BURRS AND SHARP EDGES					

TITLE: **TOP ANGLE**				DRAWING NO.: OBST-009	
MODELED: M. BARRINGTON	DATE: 14-JAN-2015	DRAWN FOR: BIOLOGICALLY APPLIED ENGINEERING			
DRAWN: M. BARRINGTON	26-JAN-2015	MATERIAL: ALUMINUM 6061 T6			
CHECKED: R. BEAUMONT	20-FEB-2015	WEIGHT (LB): 0.57		PROJ NO.: 2015-P01	
APPROVED: M. PETERSON	20-FEB-2015	SIZE: B	SCALE: 1:4	REV: --	SHEET: 2 OF 17

REVISIONS		
REV.	DESCRIPTION	DATE







ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED.

UNLESS OTHERWISE SPECIFIED, INTERPRET GD&T PER ASME Y14.5-2009, THREADS PER ASME Y14.6-2001, AND WELDING PER AWS D1.1-2010

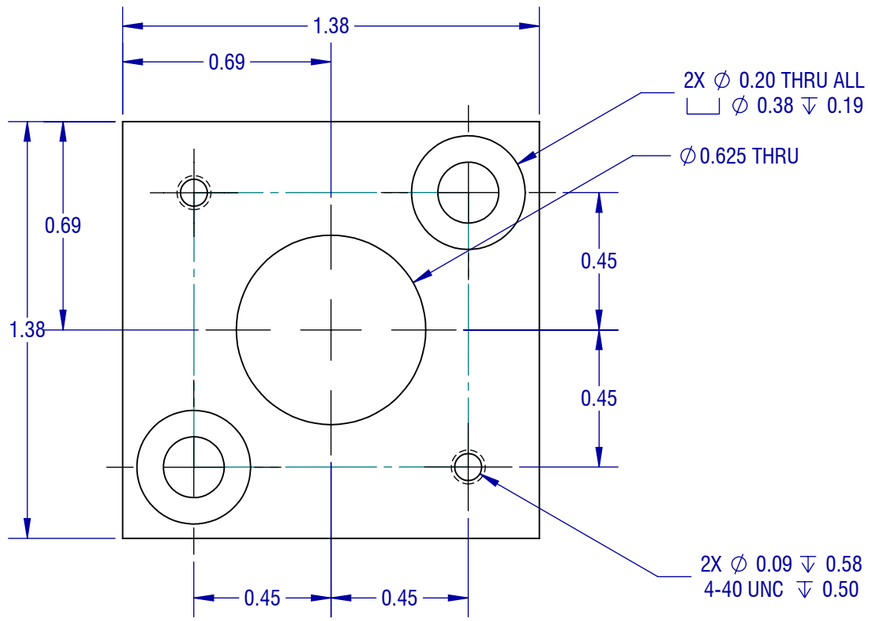
STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

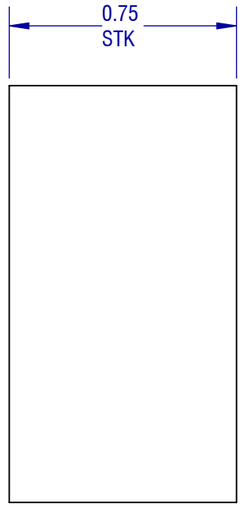
	FRAC	ANG	X.X	X.XX	X.XXX
FAB	+/- 1/16	+/- 0.5°	+/- 0.1	+/- 0.06	N/A
MACH	+/- 1/64	+/- 0.1°	+/- 0.1	+/- 0.01	+/- 0.005

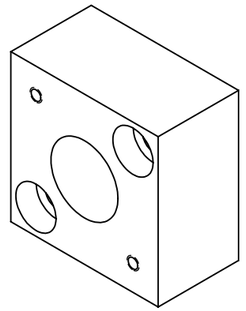
FINISH 125 UNLESS SPECIFIED
REMOVE BURRS AND SHARP EDGES

TITLE: **LATCH BRACKET**					DRAWING NO.: OBST-010	
MODELED: M. BARRINGTON	DATE: 15-FEB-2015			DRAWN FOR: BIOLOGICALLY APPLIED ENGINEERING		
DRAWN: M. BARRINGTON	17-FEB-2015			MATERIAL: ALUMINUM 6061 T6		
CHECKED: R. BEAUMONT	20-FEB-2015			WEIGHT (LB): 0.06	PROJ NO.: 2015-P01	
APPROVED: M. PETERSON	20-FEB-2015	SIZE: B	SCALE: 1:1	REV: --	SHEET: 3 OF 17	

REVISIONS		
REV.	DESCRIPTION	DATE







NOTE:

1) DESIGNED FOR BOLT PATTERN OF MIL-MS3100A-14S-1S

ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED.

UNLESS OTHERWISE SPECIFIED, INTERPRET GD&T PER ASME Y14.5-2009, THREADS PER ASME Y14.6-2001, AND WELDING PER AWS D1.1-2010

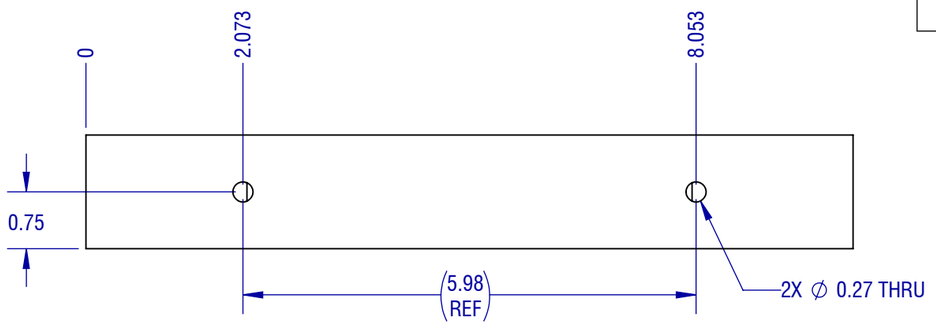
STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

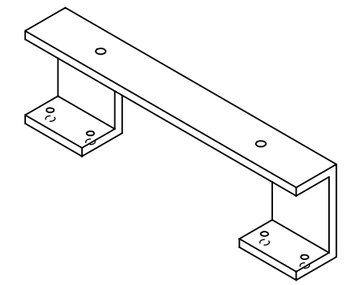
	FRAC	ANG	X.X	X.XX	X.XXX
FAB	+/- 1/16	+/- 0.5°	+/- 0.1	+/- 0.06	N/A
MACH	+/- 1/64	+/- 0.1°	+/- 0.1	+/- 0.01	+/- 0.005

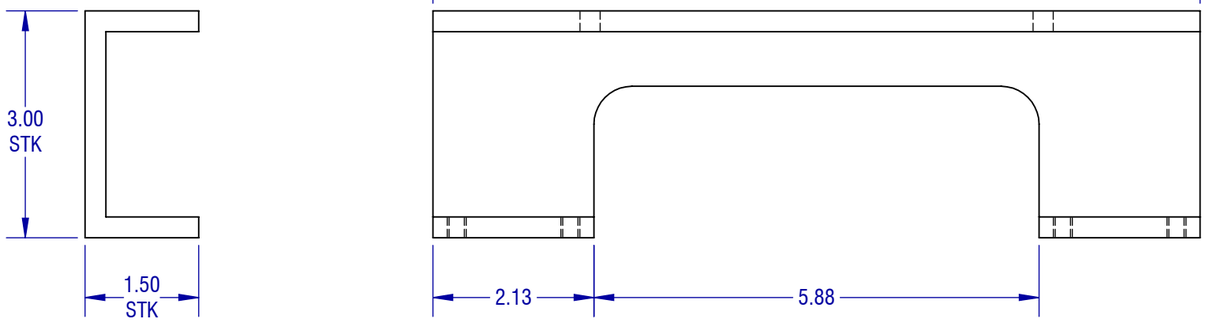
FINISH 125 UNLESS SPECIFIED
REMOVE BURRS AND SHARP EDGES

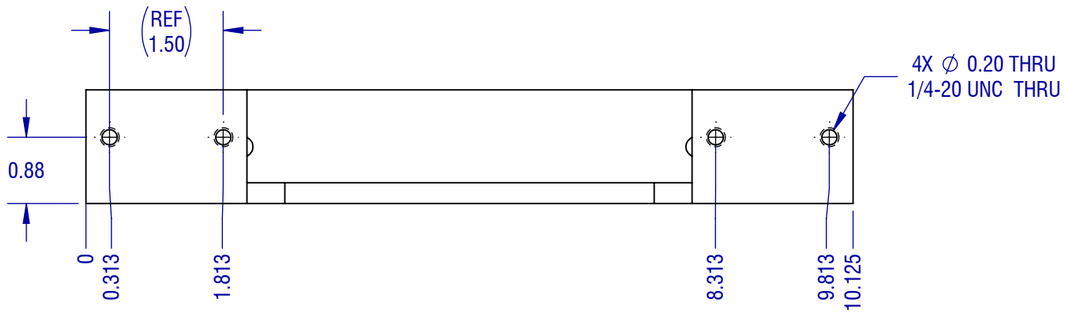
TITLE: **MIL CONNECTOR BLOCK**				DRAWING NO.: OBST-011	
MODELED: M. BARRINGTON	DATE: 14-JAN-2015	DRAWN FOR: BIOLOGICALLY APPLIED ENGINEERING			
DRAWN: M. BARRINGTON	26-JAN-2015	MATERIAL: ALUMINUM 6061 T6			
CHECKED: R. BEAUMONT	20-FEB-2015	WEIGHT (LB): 0.11		PROJ NO.: 2015-P01	
APPROVED: M. PETERSON	20-FEB-2015	SIZE: B	SCALE: 2:1	REV: --	SHEET: 4 OF 17

REVISIONS		
REV.	DESCRIPTION	DATE









NOTE:

1) STOCK: 6063 Aluminum U-Channel, 1/8" Thick, 3" Base, 1-1/2" Legs
MMC-9001K85

ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED.

UNLESS OTHERWISE SPECIFIED, INTERPRET GD&T PER ASME Y14.5-2009, THREADS PER ASME Y14.6-2001, AND WELDING PER AWS D1.1-2010

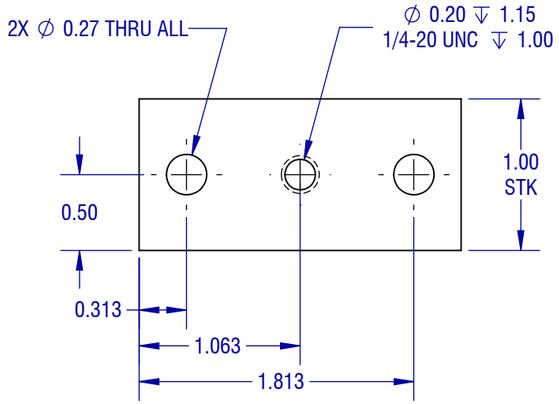
STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

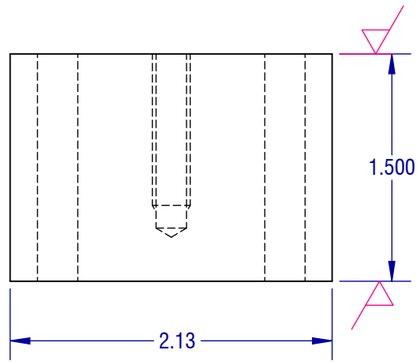
	FRAC	ANG	X.X	X.XX	X.XXX
FAB	+/- 1/16	+/- 0.5°	+/- 0.1	+/- 0.06	N/A
MACH	+/- 1/64	+/- 0.1°	+/- 0.1	+/- 0.01	+/- 0.005

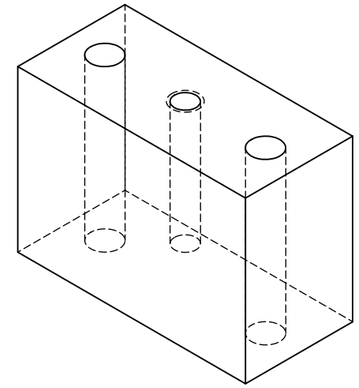
FINISH 125 UNLESS SPECIFIED
REMOVE BURRS AND SHARP EDGES

TITLE: **BOTTOM CHANNEL**			DRAWING NO.: OBST-012		
MODELED: M. BARRINGTON	DATE: 15-JAN-2015	DRAWN FOR: BIOLOGICALLY APPLIED ENGINEERING			
DRAWN: M. BARRINGTON	16-JAN-2015	MATERIAL: ALUMINUM 6063			
CHECKED: R. BEAUMONT	20-FEB-2015	WEIGHT (LB): 0.97	PROJ NO.: 2015-P01		
APPROVED: M. PETERSON	20-FEB-2015	SIZE: B	SCALE: 1:4	REV: --	SHEET: 5 OF 17

REVISIONS		
REV.	DESCRIPTION	DATE

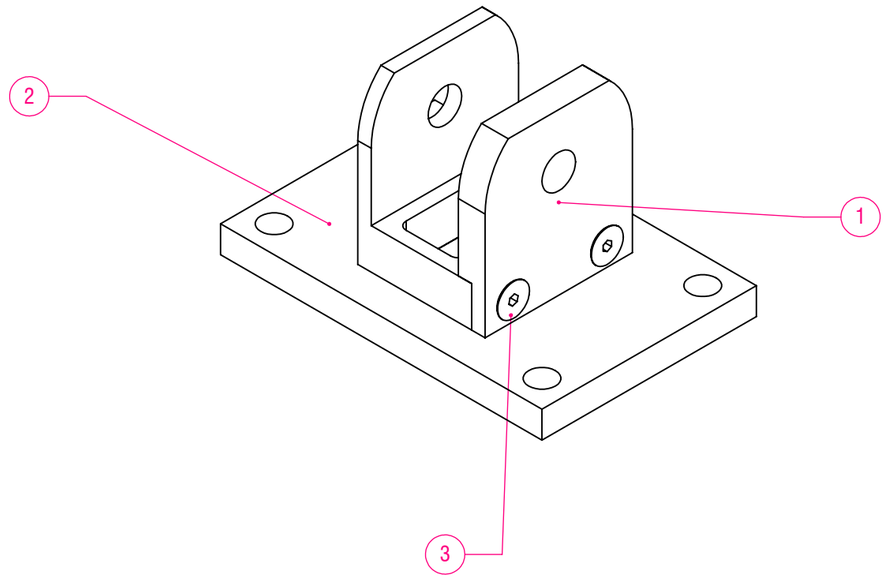






ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED. UNLESS OTHERWISE SPECIFIED, INTERPRET GD&T PER ASME Y14.5-2009, THREADS PER ASME Y14.6-2001, AND WELDING PER AWS D1.1-2010						TITLE **RAIL MOUNT SPACER**		DRAWING NO. OBST-013	
STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED						MODELED M. BARRINGTON	DATE 14-JAN-2015	DRAWN FOR BIOLOGICALLY APPLIED ENGINEERING	
	FRAC	ANG	X.X	X.XX	X.XXX	DRAWN M. BARRINGTON	26-JAN-2015	MATERIAL ALUMINUM 6061 T6	
FAB	+/- 1/16	+/- 0.5°	+/- 0.1	+/- 0.06	N/A	CHECKED		WEIGHT (LB)	PROJ NO.
MACH	+/- 1/64	+/- 0.1°	+/- 0.1	+/- 0.01	+/- 0.005	R. BEAUMONT	20-FEB-2015	0.11	2015-P01
FINISH 125 UNLESS SPECIFIED REMOVE BURRS AND SHARP EDGES						APPROVED M. PETERSON	20-FEB-2015	SIZE / SCALE / REV / SHEET B / 1:1 / -- / 6 OF 17	

REVISIONS		
REV.	DESCRIPTION	DATE



ITEM NO.	PART NUMBER	DESCRIPTION	Default/QTY.
1	OBST-016	CHAIN CARRIER MOUNT_BOLTED	1
2	OBST-015	CHAIN CARRIER MOUNT_BASE	1
3	MMC-90729A211	SCHCSCREW 0.138-40x0.375x0.375-HX-N	2

ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED.

UNLESS OTHERWISE SPECIFIED, INTERPRET GD&T PER ASME Y14.5-2009, THREADS PER ASME Y14.6-2001, AND WELDING PER AWS D1.1-2010

STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

	FRAC	ANG	X.X	X.XX	X.XXX
FAB	+/- 1/16	+/- 0.5°	+/- 0.1	+/- 0.06	N/A
MACH	+/- 1/64	+/- 0.1°	+/- 0.1	+/- 0.01	+/- 0.005

FINISH 125 UNLESS SPECIFIED
REMOVE BURRS AND SHARP EDGES

TITLE: **CABLE CARRIER MOUNT ASSEMBLY**

DRAWING NO.: OBST-014

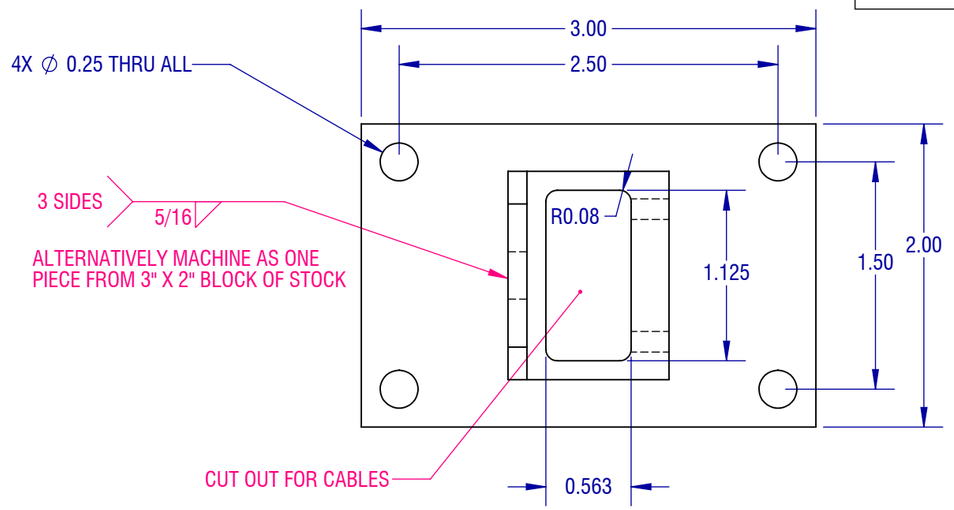
MODELED	DATE	DRAWN FOR
M. BARRINGTON	15-JAN-2015	BIOLOGICALLY APPLIED ENGINEERING

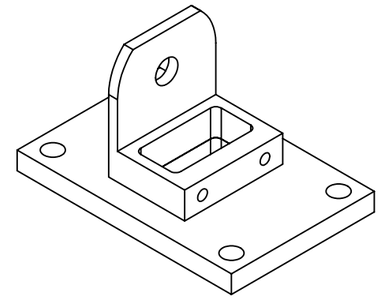
DRAWN		MATERIAL
M. BARRINGTON	16-JAN-2015	ALUMINUM 6061 T6

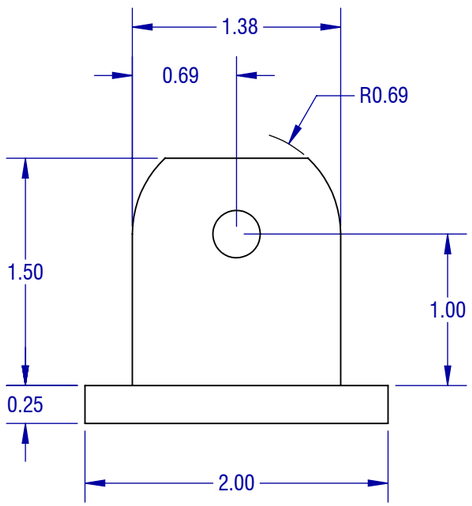
CHECKED		WEIGHT (LB)	PROJ NO.
R. BEAUMONT	20-FEB-2015	0.08	2015-P01

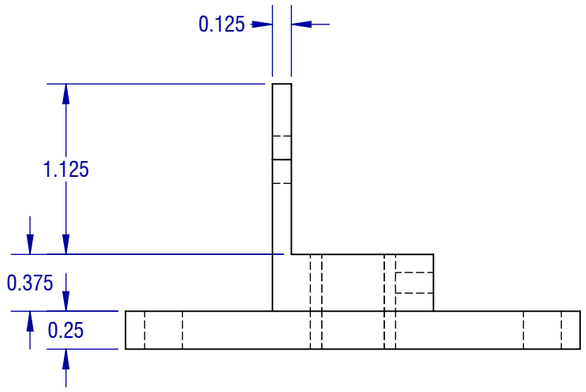
APPROVED		SIZE	SCALE	REV	SHEET
M. PETERSON	20-FEB-2015	B	1:1	--	7 OF 17

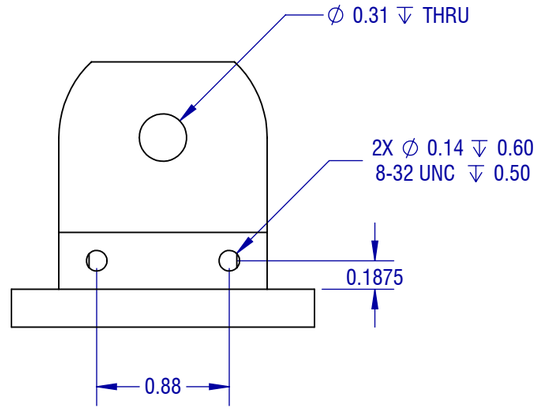
REVISIONS		
REV.	DESCRIPTION	DATE











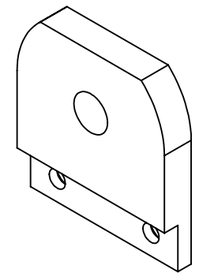
NOTE:

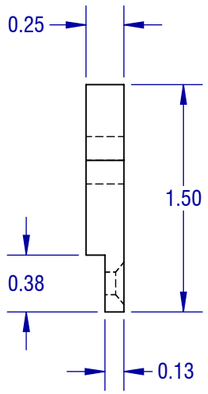
1) CHAIN MOUNT TO ACCEPT CHAIN: IGUS 20.1.055

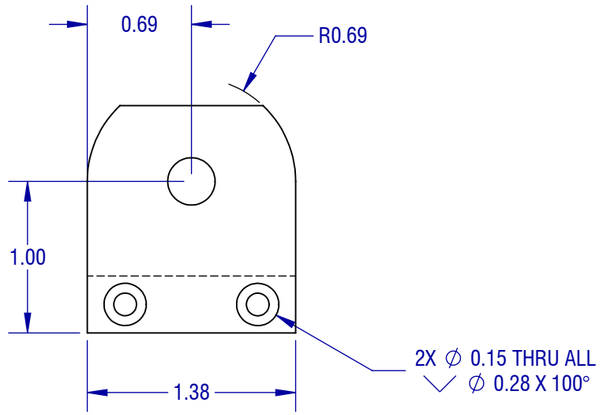
ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED. UNLESS OTHERWISE SPECIFIED, INTERPRET GD&T PER ASME Y14.5-2009, THREADS PER ASME Y14.6-2001, AND WELDING PER AWS D1.1-2010					
STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED					
	FRAC	ANG	X.X	X.XX	X.XXX
FAB	+/- 1/16	+/- 0.5°	+/- 0.1	+/- 0.06	N/A
MACH	+/- 1/64	+/- 0.1°	+/- 0.1	+/- 0.01	+/- 0.005
FINISH 125 UNLESS SPECIFIED REMOVE BURRS AND SHARP EDGES					

TITLE **CABLE CARRIER MOUNT_FIXED**			DRAWING NO. OBST-015		
MODELED M. BARRINGTON	DATE 14-JAN-2015	DRAWN FOR BIOLOGICALLY APPLIED ENGINEERING			
DRAWN M. BARRINGTON	17-FEB-2015	MATERIAL ALUMINUM 6061 T6			
CHECKED R. BEAUMONT	20-FEB-2015	WEIGHT (LB) N/A	PROJ NO. 2015-P01		
APPROVED M. PETERSON	20-FEB-2015	SIZE B	SCALE 1:1	REV --	SHEET 8 OF 17

REVISIONS		
REV.	DESCRIPTION	DATE







ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED.

UNLESS OTHERWISE SPECIFIED, INTERPRET GD&T PER ASME Y14.5-2009, THREADS PER ASME Y14.6-2001, AND WELDING PER AWS D1.1-2010

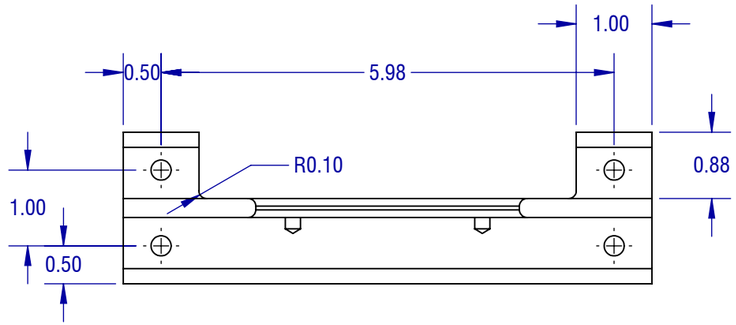
STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

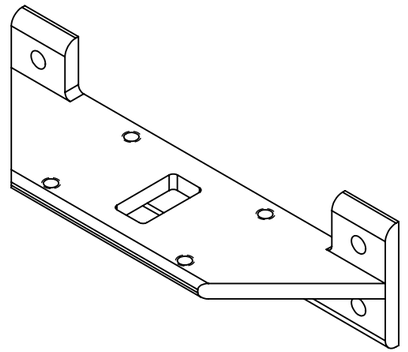
	FRAC	ANG	X.X	X.XX	X.XXX
FAB	+/- 1/16	+/- 0.5°	+/- 0.1	+/- 0.06	N/A
MACH	+/- 1/64	+/- 0.1°	+/- 0.1	+/- 0.01	+/- 0.005

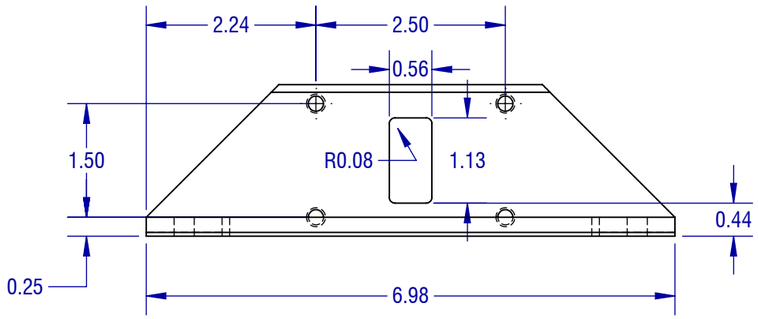
FINISH 125 UNLESS SPECIFIED
REMOVE BURRS AND SHARP EDGES

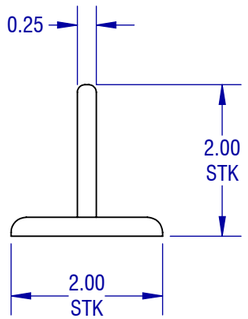
TITLE: **CABLE CARRIER MOUNT_BOLTED**			DRAWING NO.: OBST-016		
MODELED: M. BARRINGTON	DATE: 14-JAN-2015	DRAWN FOR: BIOLOGICALLY APPLIED ENGINEERING			
DRAWN: M. BARRINGTON	17-FEB-2015	MATERIAL: ALUMINUM 6061 T6			
CHECKED: R. BEAUMONT	20-FEB-2015	WEIGHT (LB): N/A	PROJ NO.: 2015-P01		
APPROVED: M. PETERSON	20-FEB-2015	SIZE: B	SCALE: 1:1	REV: --	SHEET: 9 OF 17

REVISIONS		
REV.	DESCRIPTION	DATE









NOTE:

1) STOCK: 304 Stainless Steel T-Bar, 1/4" Thick, 2" x 2"
MMC-1352T13

ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED.

UNLESS OTHERWISE SPECIFIED, INTERPRET GD&T PER ASME Y14.5-2009, THREADS PER ASME Y14.6-2001, AND WELDING PER AWS D1.1-2010

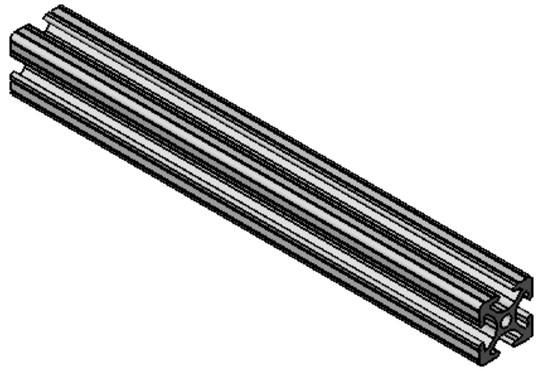
STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

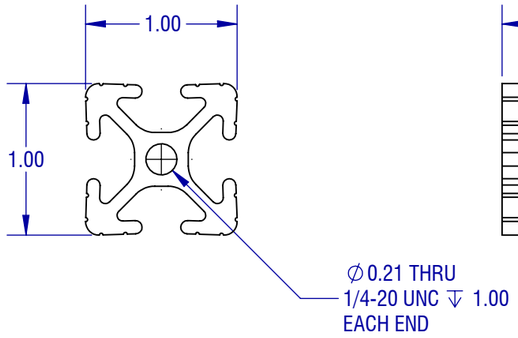
	FRAC	ANG	X.X	X.XX	X.XXX
FAB	+/- 1/16	+/- 0.5°	+/- 0.1	+/- 0.06	N/A
MACH	+/- 1/64	+/- 0.1°	+/- 0.1	+/- 0.01	+/- 0.005

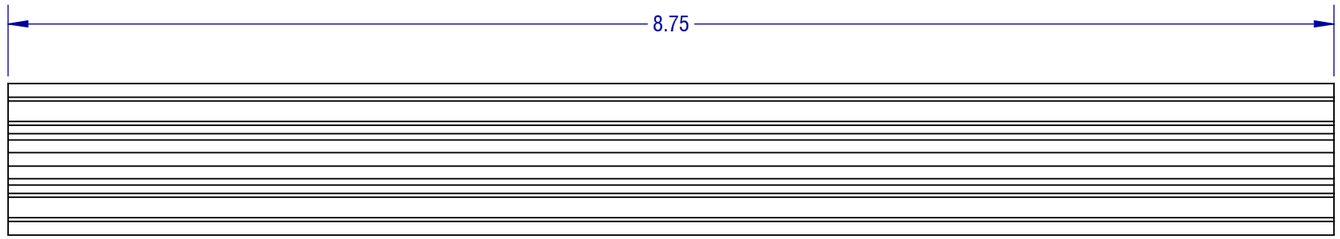
FINISH 125 UNLESS SPECIFIED
REMOVE BURRS AND SHARP EDGES

TITLE: **CABLE CARRIER MOUNT T-BAR**			DRAWING NO.: OBST-017		
MODELED: M. BARRINGTON	DATE: 16-FEB-2015	DRAWN FOR: BIOLOGICALLY APPLIED ENGINEERING			
DRAWN: M. BARRINGTON	17-FEB-2015	MATERIAL: 304 SS			
CHECKED: R. BEAUMONT	20-FEB-2015	WEIGHT (LB): 0.16	PROJ NO.: 2015-P01		
APPROVED: M. PETERSON	20-FEB-2015	SIZE: B	SCALE: 1:2	REV: --	SHEET: 10 OF 17

REVISIONS		
REV.	DESCRIPTION	DATE







T-SLOT RAIL

NOTE:

1) T-SLOT RAIL STOCK: MMC-47065T209 (QTY. 2)

2) T-SLOR TAIL END CAP: MMC-47065T910 (QTY. 2)

ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED.

UNLESS OTHERWISE SPECIFIED, INTERPRET GD&T PER ASME Y14.5-2009, THREADS PER ASME Y14.6-2001, AND WELDING PER AWS D1.1-2010

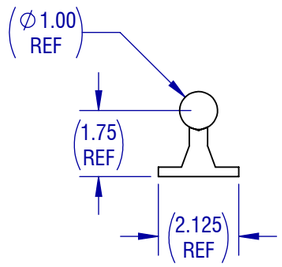
STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

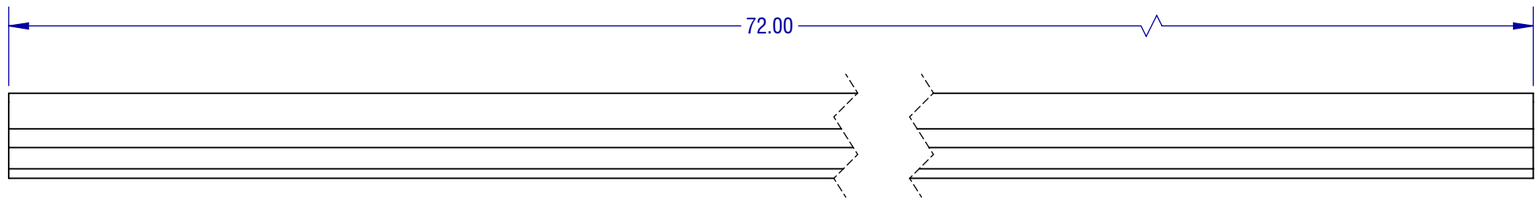
	FRAC	ANG	X.X	X.XX	X.XXX
FAB	+/- 1/16	+/- 0.5°	+/- 0.1	+/- 0.06	N/A
MACH	+/- 1/64	+/- 0.1°	+/- 0.1	+/- 0.01	+/- 0.005

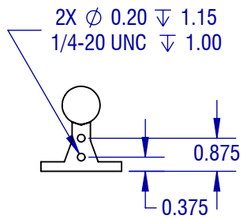
FINISH 125 UNLESS SPECIFIED
REMOVE BURRS AND SHARP EDGES

TITLE: T-SLOT RAIL				DRAWING NO.: OBST-018	
MODELED: M. BARRINGTON	DATE: 24-JAN-2015		DRAWN FOR: BIOLOGICALLY APPLIED ENGINEERING		
DRAWN: M. BARRINGTON	27-JAN-2015		MATERIAL: ALUMINUM 6061 T6		
CHECKED: --TBD--	DD-MMM-YYYY		WEIGHT (LB): N/A	PROJ NO.: 2015-P01	
APPROVED: --TBD--	DD-MMM-YYYY		SIZE: B	SCALE: 1:2	REV: -- / SHEET: 11 OF 17

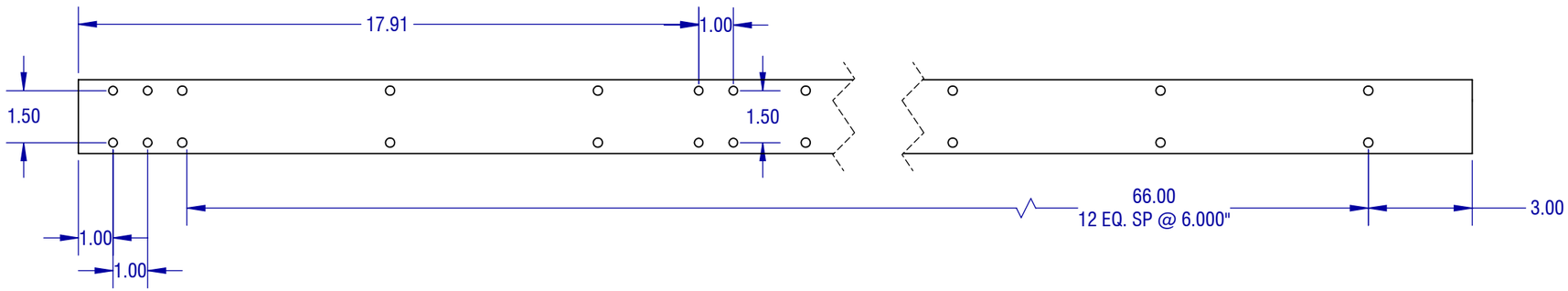
REVISIONS		
REV.	DESCRIPTION	DATE







HOLES AT BOTTOM OF RAIL FOR END CAP



LINEAR RAIL ASSEMBLY

NOTE:

1) LINEAR RAIL PART NUMBER: MMC-6557K34

ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED.

UNLESS OTHERWISE SPECIFIED, INTERPRET GD&T PER ASME Y14.5-2009, THREADS PER ASME Y14.6-2001, AND WELDING PER AWS D1.1-2010

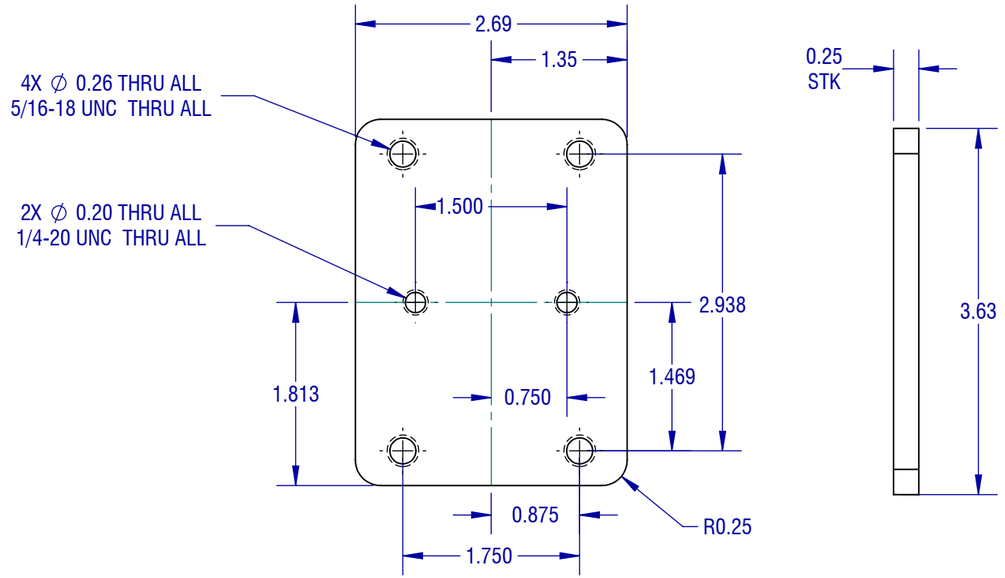
STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

	FRAC	ANG	X.X	X.XX	X.XXX
FAB	+/- 1/16	+/- 0.5°	+/- 0.1	+/- 0.06	N/A
MACH	+/- 1/64	+/- 0.1°	+/- 0.1	+/- 0.01	+/- 0.005

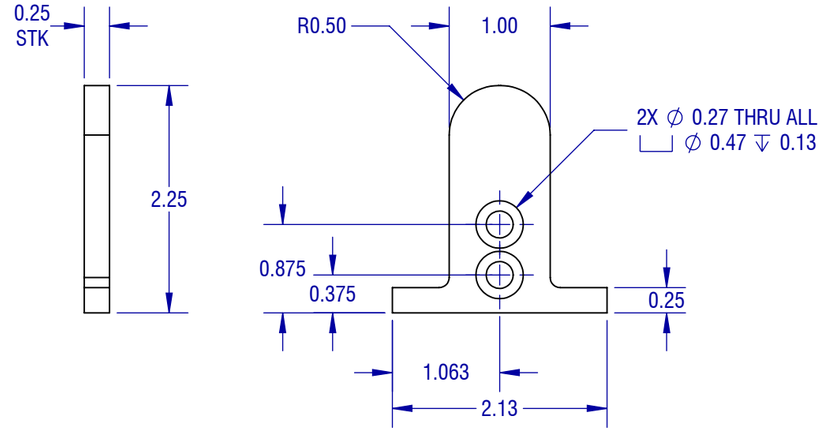
FINISH 125 UNLESS SPECIFIED
REMOVE BURRS AND SHARP EDGES

TITLE: **LINEAR RAIL ASSEMBLY**				DRAWING NO.: OBST-019	
MODELED: M. BARRINGTON	DATE: 15-JAN-2015	DRAWN FOR: BIOLOGICALLY APPLIED ENGINEERING			
DRAWN: M. BARRINGTON	27-JAN-2015	MATERIAL: VARIOUS			
CHECKED: R. BEAUMONT	20-FEB-2015	WEIGHT (LB): 4.98		PROJ NO.: 2015-P01	
APPROVED: M. PETERSON	20-FEB-2015	SIZE: B	SCALE: 1:16	REV: --	SHEET: 12 OF 17

REVISIONS		
REV.	DESCRIPTION	DATE



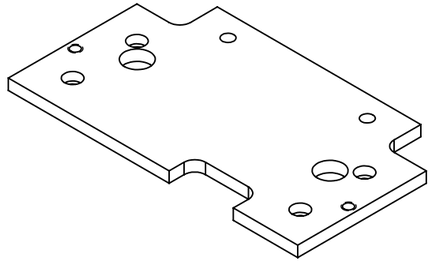
FIXED WHEEL MOUNT

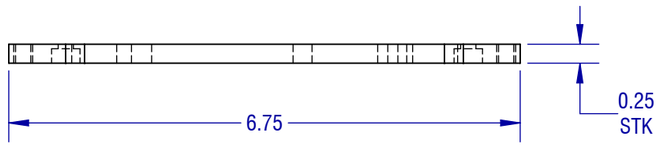


RAIL END CAP

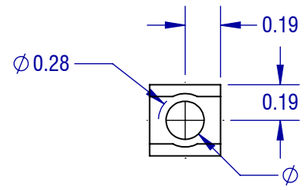
ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED. UNLESS OTHERWISE SPECIFIED, INTERPRET GD&T PER ASME Y14.5-2009. THREADS PER ASME Y14.6-2001, AND WELDING PER AWS D1.1-2010						TITLE: **RAIL ACCESSORIES**			DRAWING NO.: OBST-020
						MODELED: M. BARRINGTON	DATE: 16-FEB-2015	DRAWN FOR: BIOLOGICALLY APPLIED ENGINEERING	
STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED						DRAWN: M. BARRINGTON	17-FEB-2015	MATERIAL: ALUMINUM 6061 T6	
	FRAC	ANG	X.X	X.XX	X.XXX				
FAB	+/- 1/16	+/- 0.5°	+/- 0.1	+/- 0.06	N/A	CHECKED: R. BEAUMONT	20-FEB-2015	WEIGHT (LB): 0.09	PROJ NO.: 2015-P01
MACH	+/- 1/64	+/- 0.1°	+/- 0.1	+/- 0.01	+/- 0.005				
FINISH 125 UNLESS SPECIFIED REMOVE BURRS AND SHARP EDGES						APPROVED: M. PETERSON	20-FEB-2015	SIZE: B / SCALE: 1:16 / REV: -- / SHEET: 13 OF 17	

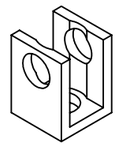
REVISIONS		
REV.	DESCRIPTION	DATE

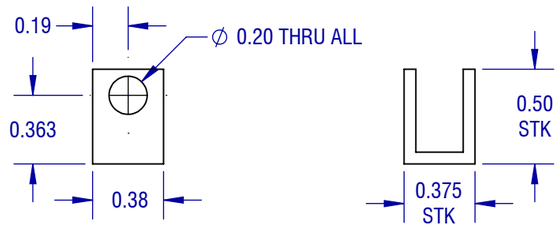




STRING POT. MOUNT PLATE







STRING POT. STRING CLEVIS

SEE NOTE 2

NOTE:

1) HOLE PATERN TO FIT STRING POTENTIOMETER P/N: PTSA-100-N34-DN-500-M6
   MANUFACTURER: CELESCO

2) STOCK: U-CHANNEL, 3/8" BASE, 1/2" LEGS, MMC-4592T240
   MATERIAL: ALUMINUM 6063

STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED					
	FRAC	ANG	X.X	X.XX	X.XXX
FAB	+/- 1/16	+/- 0.5°	+/- 0.1	+/- 0.06	N/A
MACH	+/- 1/64	+/- 0.1°	+/- 0.1	+/- 0.01	+/- 0.005

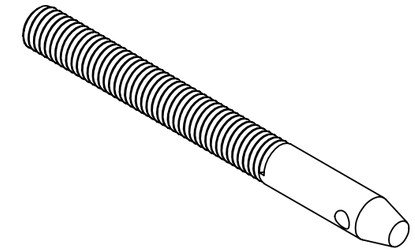
ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED.

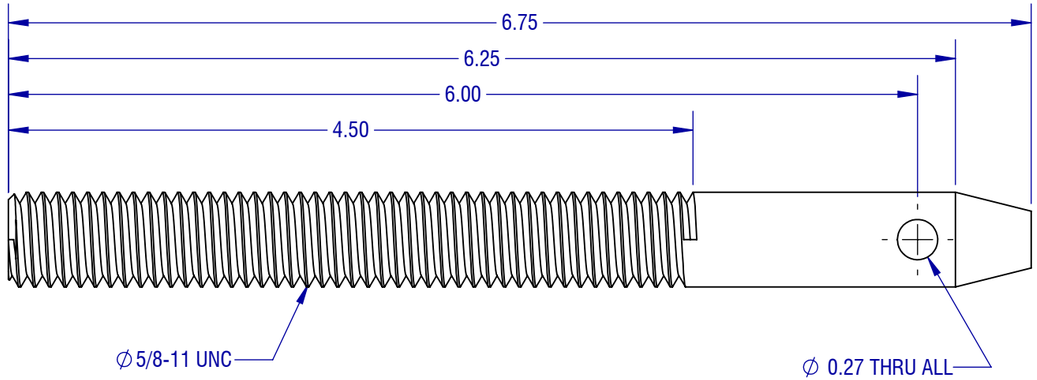
UNLESS OTHERWISE SPECIFIED, INTERPRET GD&T PER ASME Y14.5-2009, THREADS PER ASME Y14.6-2001, AND WELDING PER AWS D1.1-2010

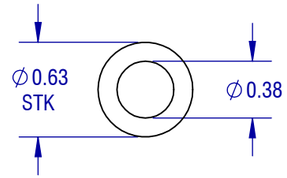
FINISH 125 UNLESS SPECIFIED
REMOVE BURRS AND SHARP EDGES

TITLE: **STRING POTENTIOMETER MOUNT**					DRAWING NO.: OBST-021	
MODELED: M. BARRINGTON	DATE: 27-JAN-2015	DRAWN FOR: BIOLOGICALLY APPLIED ENGINEERING				
DRAWN: M. BARRINGTON	27-JAN-2015	MATERIAL: ALUMINUM 6061 T6				
CHECKED: R. BEAUMONT	20-FEB-2015	WEIGHT (LB): 0.20		PROJ NO.: 2015-P01		
APPROVED: M. PETERSON	20-FEB-2015	SIZE: B	SCALE: 1:2	REV: --	SHEET: 14 OF 17	

REVISIONS		
REV.	DESCRIPTION	DATE







NOTE:

1) MATERIAL: 304L STAINLESS SREEL 5/8" DIA. ROD

ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED.

UNLESS OTHERWISE SPECIFIED, INTERPRET GD&T PER ASME Y14.5-2009. THREADS PER ASME Y14.6-2001, AND WELDING PER AWS D1.1-2010

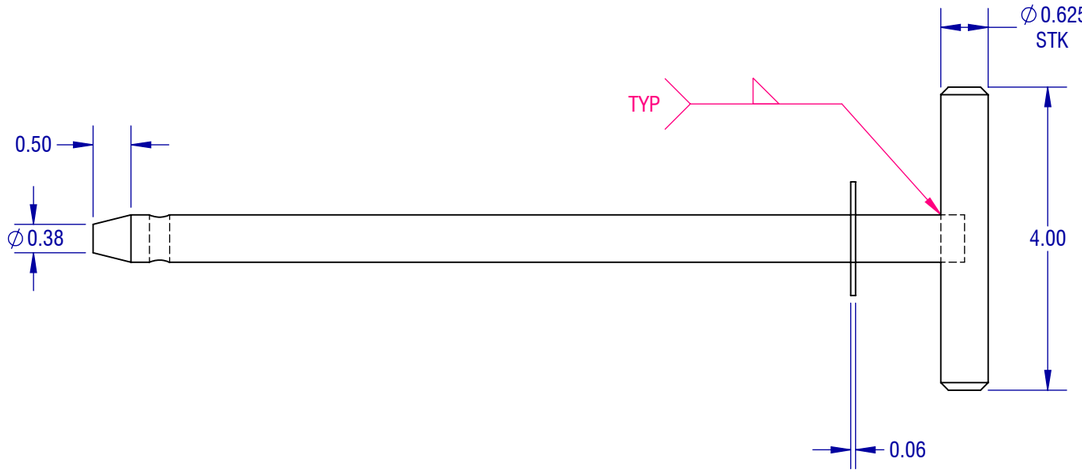
STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

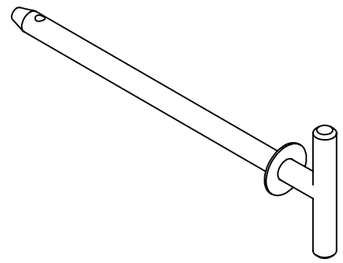
	FRAC	ANG	X.X	X.XX	X.XXX
FAB	+/- 1/16	+/- 0.5°	+/- 0.1	+/- 0.06	N/A
MACH	+/- 1/64	+/- 0.1°	+/- 0.1	+/- 0.01	+/- 0.005

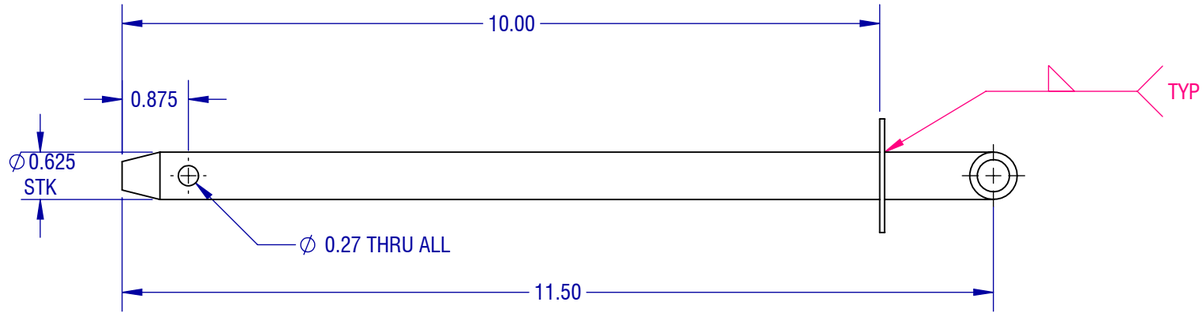
FINISH 125 UNLESS SPECIFIED
REMOVE BURRS AND SHARP EDGES

TITLE: **HITCH PIN_BOLT ON**				DRAWING NO.: OBST-022	
MODELED: M. BARRINGTON	DATE: 28-JAN-2015	DRAWN FOR: BIOLOGICALLY APPLIED ENGINEERING			
DRAWN: M. BARRINGTON	17-FEB-2015	MATERIAL: 304L SS			
CHECKED: R. BEAUMONT	20-FEB-2015	WEIGHT (LB): 0.06		PROJ NO.: 2015-P01	
APPROVED: M. PETERSON	20-FEB-2015	SIZE: B	SCALE: 1:1	REV: --	SHEET: 15 OF 17

REVISIONS		
REV.	DESCRIPTION	DATE

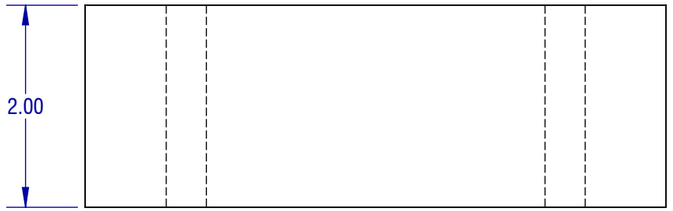


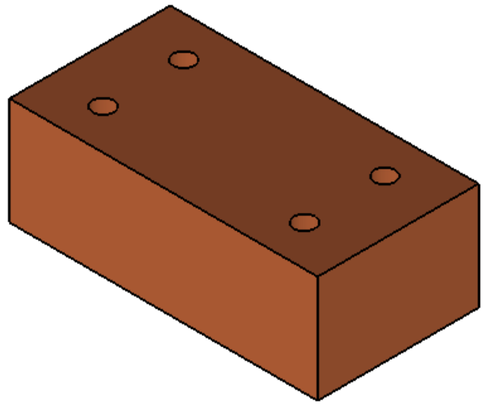




ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED. UNLESS OTHERWISE SPECIFIED, INTERPRET GD&T PER ASME Y14.5-2009, THREADS PER ASME Y14.6-2001, AND WELDING PER AWS D1.1-2010						TITLE: **HITCH PIN_SLIDING**		DRAWING NO.: OBST-023	
						MODELED: M. BARRINGTON	DATE: 24-JAN-2015	DRAWN FOR: BIOLOGICALLY APPLIED ENGINEERING	
STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED						DRAWN: M. BARRINGTON	17-FEB-2015	MATERIAL: ASTM A36 STEEL	
	FRAC	ANG	X.X	X.XX	X.XXX				
FAB	+/- 1/16	+/- 0.5°	+/- 0.1	+/- 0.06	N/A	CHECKED: R. BEAUMONT	20-FEB-2015	WEIGHT (LB): 0.17	PROJ NO.: 2015-P01
MACH	+/- 1/64	+/- 0.1°	+/- 0.1	+/- 0.01	+/- 0.005				
FINISH 125 UNLESS SPECIFIED REMOVE BURRS AND SHARP EDGES						APPROVED: M. PETERSON	20-FEB-2015	SIZE: B / SCALE: 1:2 / REV: -- / SHEET: 16 OF 17	

REVISIONS		
REV.	DESCRIPTION	DATE





NOTE:

1) TO ACT AS AN EMERGENCY STOP

2) CONSUMABLE PART, MATERIAL: HARD WOOD

ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED.

UNLESS OTHERWISE SPECIFIED, INTERPRET GD&T PER ASME Y14.5-2009, THREADS PER ASME Y14.6-2001, AND WELDING PER AWS D1.1-2010

STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

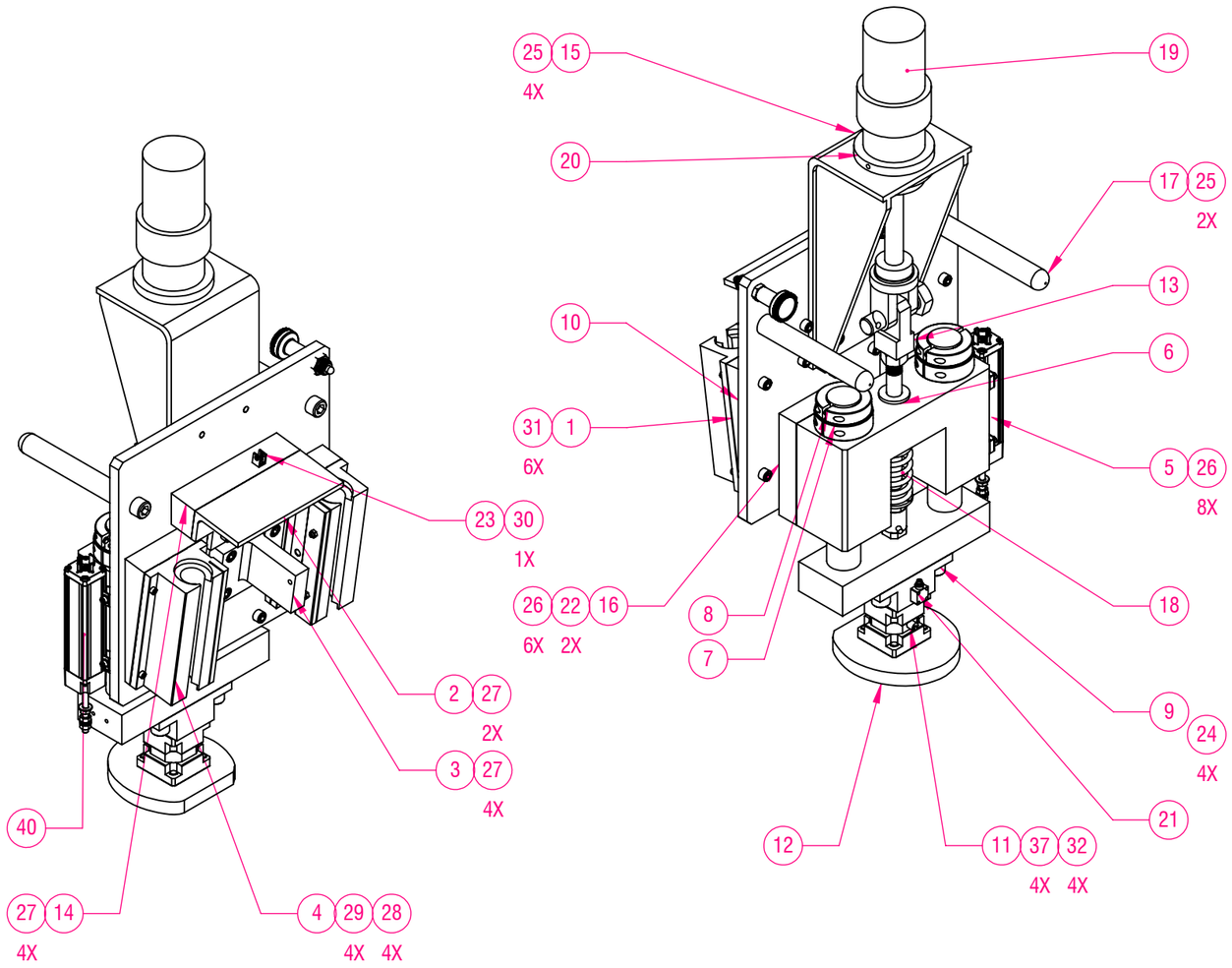
	FRAC	ANG	X.X	X.XX	X.XXX
FAB	+/- 1/16	+/- 0.5°	+/- 0.1	+/- 0.06	N/A
MACH	+/- 1/64	+/- 0.1°	+/- 0.1	+/- 0.01	+/- 0.005

FINISH 125 UNLESS SPECIFIED
REMOVE BURRS AND SHARP EDGES

TITLE: **WOODEN BLOCK**			DRAWING NO.: OBST-024
MODELED: M. BARRINGTON	DATE: 14-FEB-2015	DRAWN FOR: BIOLOGICALLY APPLIED ENGINEERING	
DRAWN: M. BARRINGTON	20-FEB-2015	MATERIAL: HARD WOOD	
CHECKED: --TBD--	DD-MMM-YYYY	WEIGHT (LB): 1.21	PROJ NO.: 2015-P01
APPROVED: --TBD--	DD-MMM-YYYY	SIZE: B / SCALE: 1:1 / REV: -- / SHEET: 17 OF 17	

ITEM NO.	PART NUMBER	DESCRIPTION	Default/QTY.
1	OBST-027	RAIL WEDGE	2
2	OBST-029	MAGNET PLATE	1
3	OBST-030	TRACK TEE	1
4	TWN-16-OPN-CR	LINEAR BEARING	2
5	OBST-033	PHD SLIDE	1
6	OBST-042	ROD BUSHING	1
7	MMC60485K73	SPLIT COLLAR, 1.38" NYLON	2
8	MMC6436K146	SPLIT COLLAR, 1.38" ALUMINUM	2
9	OBST-043	ACCELEROMETER MOUNT	1
10	OBST-026	BASE PLATE	1
11	KISTLER 9347C	TRIAXIAL LOAD CELL	1
12	OBST-044	HOOF BASE	1
13	OBST-040	ROD EYE	1
14	OBST-028	MAGNET PLATE_WEDGE	1
15	OBST-031	DAMPER MOUNT	1
16	OBST-034	PHD SLIDE SPACER	2
17	OBST-032	HANDLE	2
18	OBST-036	SPRING ASSEMBLY	1
19	OEM 2.0M x 4 CM(S)	ENDINE DAMPER	1
20	LR M64 x 2	ENDINE DAMPER LOCK RING	2
21	KISTLER 8793A	KISTLER ACCELEROMETER	1
22	OBST-035	LOCATING PIN	2
23	OBST-013	STRING POT. STRING MOUNT	1
24	MMC-90128A716	HX-SHCS 0.5-13x1.5x1.5-N	6
25	MMC-90128A581	HX-SHCS 0.3125-18x0.75x0.75-N	6
26	MMC-90128A587	HX-SHCS 0.3125-18x1.5x1.5-N	14
27	MMC-90128A583	HX-SHCS 0.3125-18x1x1-N	10
28	MMC-90128A199	HX-SHCS 0.164-32x1x1-N	4
29	MMC-90128A196	HX-SHCS 0.164-32x0.625x0.625-N	4
30	MMC-90128A194	HX-SHCS 0.164-32x0.5x0.5-N	1
31	MMC-90128A586	HX-SHCS 0.3125-18x1.25x1.25-N	4
32	MMC-90128A276	B18.3.1M - 8 x 1.25 x 30 Hex SHCS -- 30NHX	4
37	MMC-90128A274	B18.3.1M - 8 x 1.25 x 20 Hex SHCS -- 20NHX	4
38	MMC-8480A3	SPRING PLUNGER, 5/8"-11UNC	1
39	OBST-041	DAMPER PIN	1
40	NOVATECHNIK LWH 75	LINEAR POTENTIOMETER	1

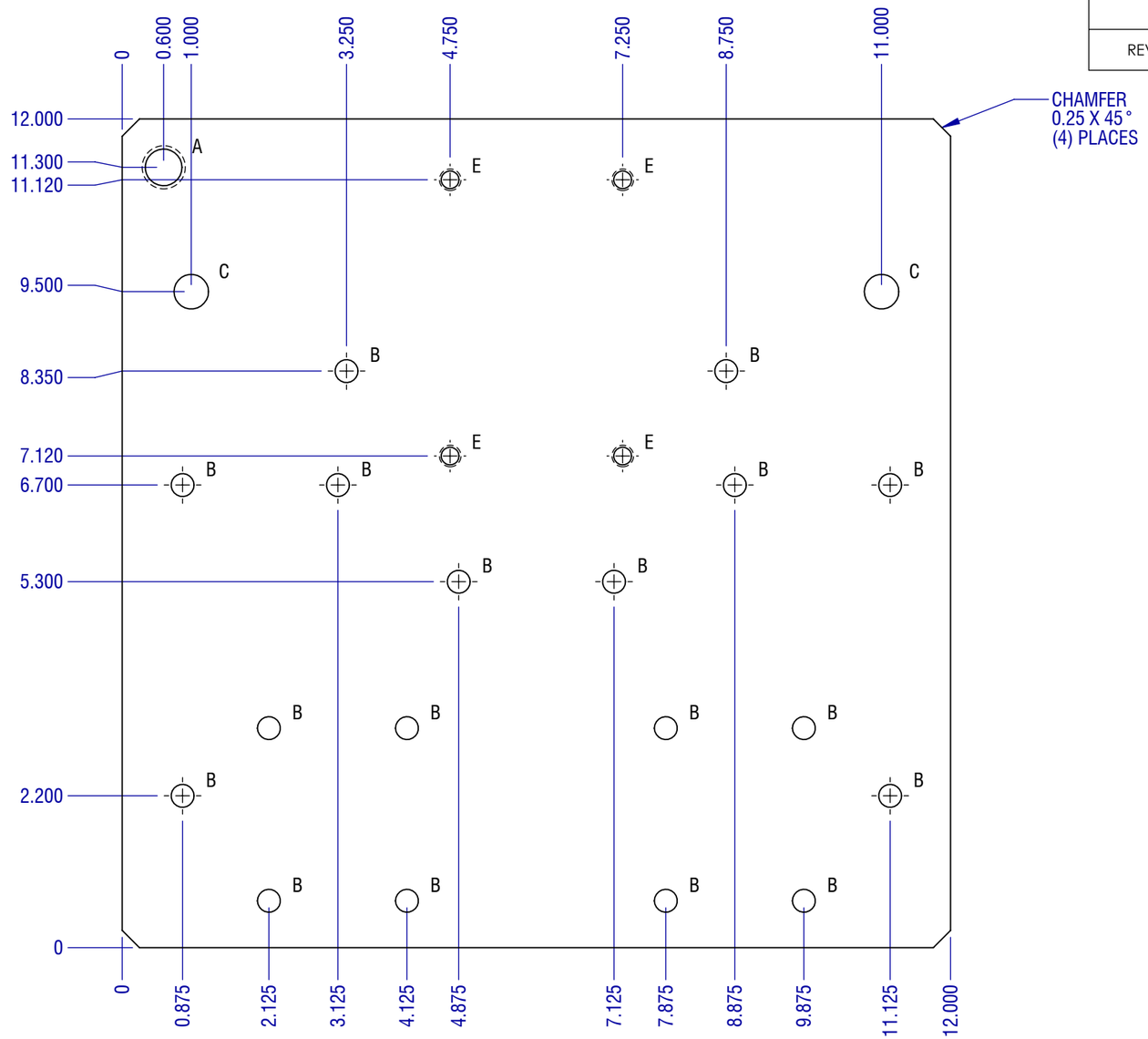
REVISIONS		
REV.	DESCRIPTION	DATE

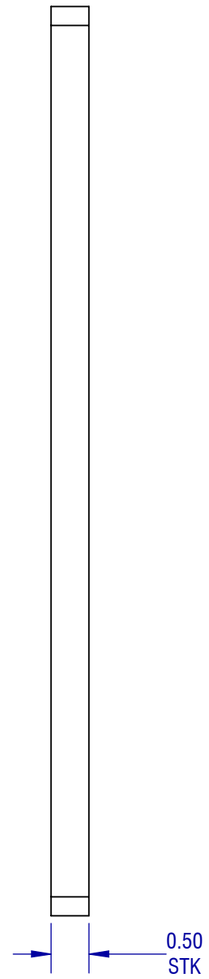


ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED. UNLESS OTHERWISE SPECIFIED, INTERPRET GD&T PER ASME Y14.5-2009, THREADS PER ASME Y14.6-2001, AND WELDING PER AWS D1.1-2010					
STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED					
	FRAC	ANG	X.X	X.XX	X.XXX
FAB	+/- 1/16	+/- 0.5°	+/- 0.1	+/- 0.06	N/A
MACH	+/- 1/64	+/- 0.1°	+/- 0.1	+/- 0.01	+/- 0.005
FINISH 125 UNLESS SPECIFIED REMOVE BURRS AND SHARP EDGES					

TITLE: **HOOF PLATE ASSEMBLY**				DRAWING NO.: OBST-025	
MODELED: M. BARRINGTON	DATE: 15-JAN-2015	DRAWN FOR: BIOLOGICALLY APPLIED ENGINEERING			
DRAWN: M. BARRINGTON	16-JAN-2015	MATERIAL: VARIOUS			
CHECKED: R. BEAUMONT	20-FEB-2015	WEIGHT (LB): ~71.77		PROJ NO.: 2015-P01	
APPROVED: M. PETERSON	20-FEB-2015	SIZE: B	SCALE: 1:8	REV: --	SHEET: 1 OF 20

REVISIONS		
REV.	DESCRIPTION	DATE





TAG	SIZE	QUANTITY
A	∅ 0.53 THRU ALL 5/8-11 UNC THRU ALL	1
B	∅ 0.33 THRU ALL	18
C	∅ 0.50 THRU ALL	2
E	∅ 0.26 THRU ALL 5/16-18 UNC THRU ALL	4

ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED.

UNLESS OTHERWISE SPECIFIED, INTERPRET GD&T PER ASME Y14.5-2009, THREADS PER ASME Y14.6-2001, AND WELDING PER AWS D1.1-2010

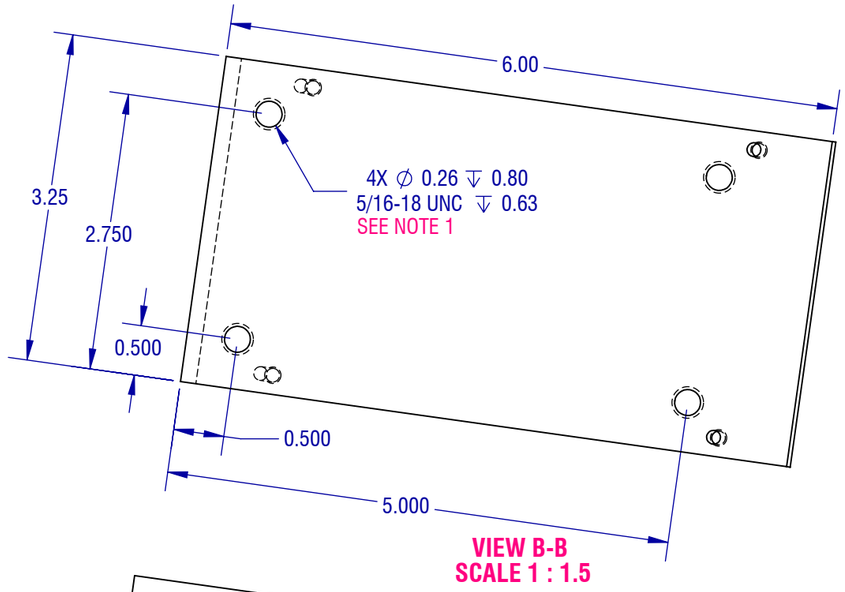
STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

	FRAC	ANG	X.X	X.XX	X.XXX
FAB	+/- 1/16	+/- 0.5°	+/- 0.1	+/- 0.06	N/A
MACH	+/- 1/64	+/- 0.1°	+/- 0.1	+/- 0.01	+/- 0.005

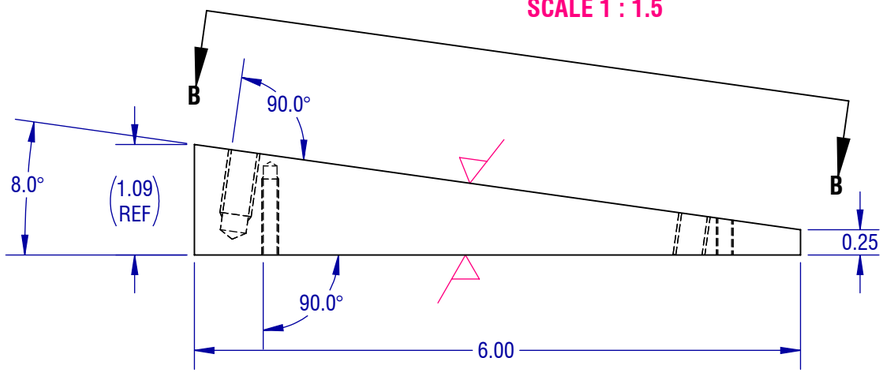
FINISH 125 UNLESS SPECIFIED
REMOVE BURRS AND SHARP EDGES

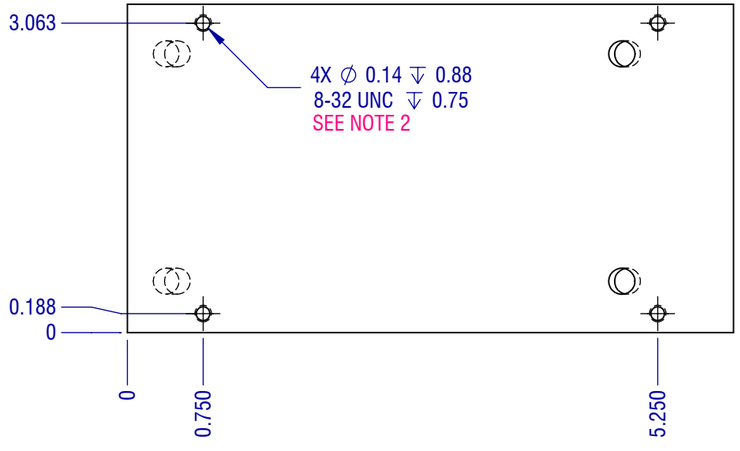
TITLE: **BASE PLATE**				DRAWING NO.: OBST-026	
MODELED: M. BARRINGTON	DATE: 15-JAN-2015	DRAWN FOR: BIOLOGICALLY APPLIED ENGINEERING			
DRAWN: M. BARRINGTON	15-JAN-2015	MATERIAL: ALUMINIUM 6061 T6			
CHECKED: R. BEAUMONT	20-FEB-2015	WEIGHT (LB): 6.90		PROJ NO.: 2015-P01	
APPROVED: M. PETERSON	20-FEB-2015	SIZE: B	SCALE: 1:4	REV: --	SHEET: 2 OF 20

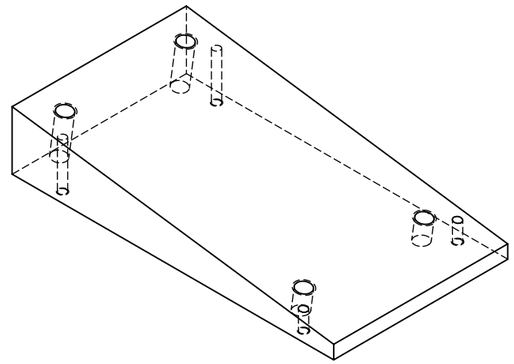
REVISIONS		
REV.	DESCRIPTION	DATE



VIEW B-B
SCALE 1 : 1.5







NOTE

1) HOLES DRILLED AND TAPPED PERPENDICULAR TO SURFACE [BASE PLATE]
2) HOLES DRILLED AND TAPPED PERPENDICULAR TO SURFACE [LINEAR BREARING (TWN-16-OPN-CR)]

ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED.

UNLESS OTHERWISE SPECIFIED, INTERPRET GD&T PER ASME Y14.5-2009, THREADS PER ASME Y14.6-2001, AND WELDING PER AWS D1.1-2010

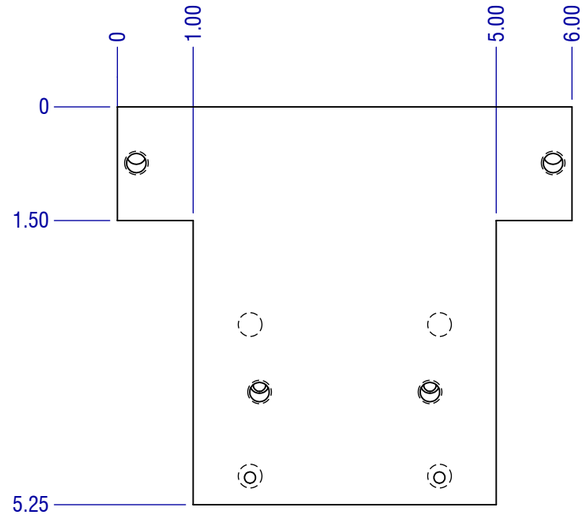
STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

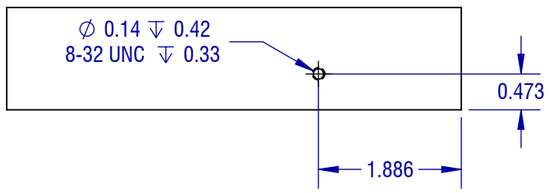
	FRAC	ANG	X.X	X.XX	X.XXX
FAB	+/- 1/16	+/- 0.5°	+/- 0.1	+/- 0.06	N/A
MACH	+/- 1/64	+/- 0.1°	+/- 0.1	+/- 0.01	+/- 0.005

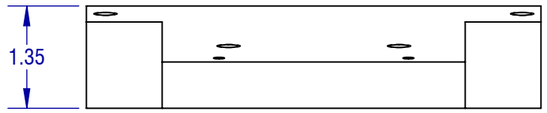
FINISH 125 UNLESS SPECIFIED
REMOVE BURRS AND SHARP EDGES

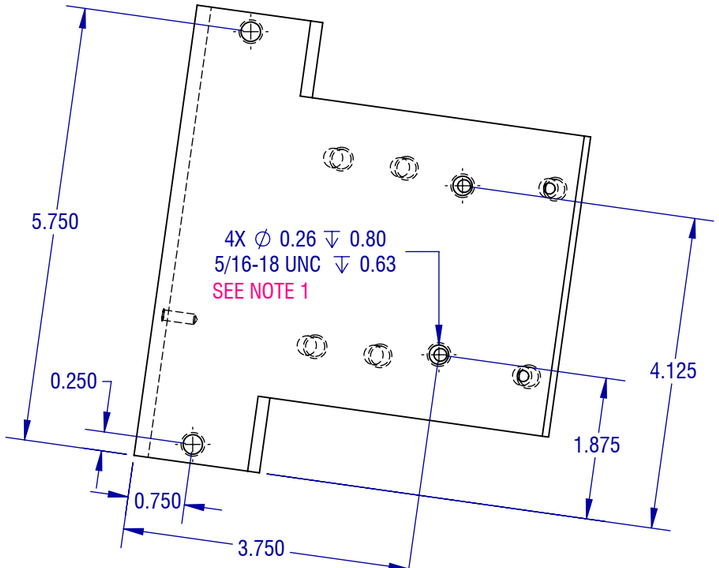
TITLE: **RAIL WEDGE**				DRAWING NO.: OBST-027	
MODELED: M. BARRINGTON	DATE: 15-JAN-2015	DRAWN FOR: BIOLOGICALLY APPLIED ENGINEERING			
DRAWN: M. BARRINGTON	15-JAN-2015	MATERIAL: ALUMINIUM 6061 T6			
CHECKED: R. BEAUMONT	20-FEB-2015	WEIGHT (LB): 1.26		PROJ NO.: 2015-P01	
APPROVED: M. PETERSON	20-FEB-2015	SIZE: B	SCALE: 1:2	REV: --	SHEET: 3 OF 20

REVISIONS		
REV.	DESCRIPTION	DATE

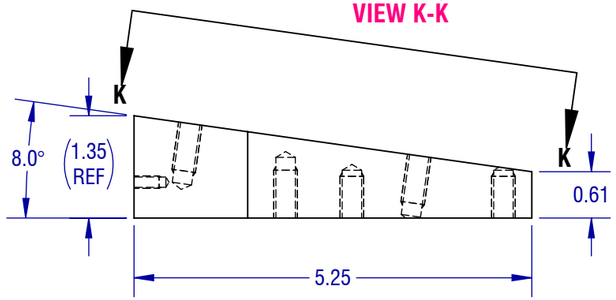


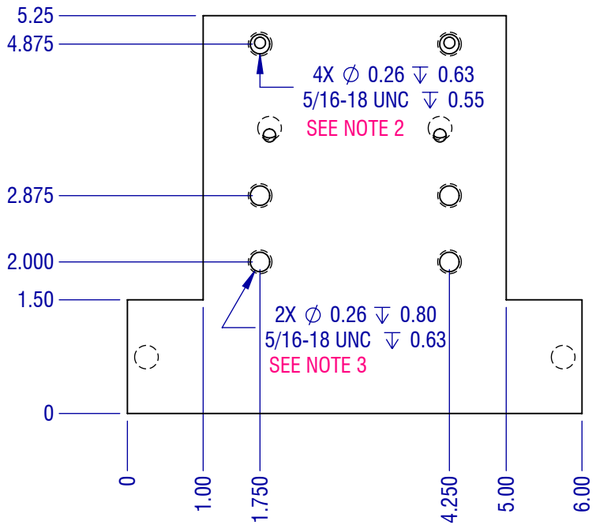






VIEW K-K





NOTE

1) HOLES DRILLED AND TAPPED PERPENDICULAR TO SURFACE (BASE PLATE)
2) HOLES DRILLED AND TAPPED PERPENDICULAR TO SURFACE (TRACK TEE)
3) HOLES DRILLED AND TAPPED PERPENDICULAR TO SURFACE (MAGNET PLATE)

ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED.

UNLESS OTHERWISE SPECIFIED, INTERPRET GD&T PER ASME Y14.5-2009, THREADS PER ASME Y14.6-2001, AND WELDING PER AWS D1.1-2010

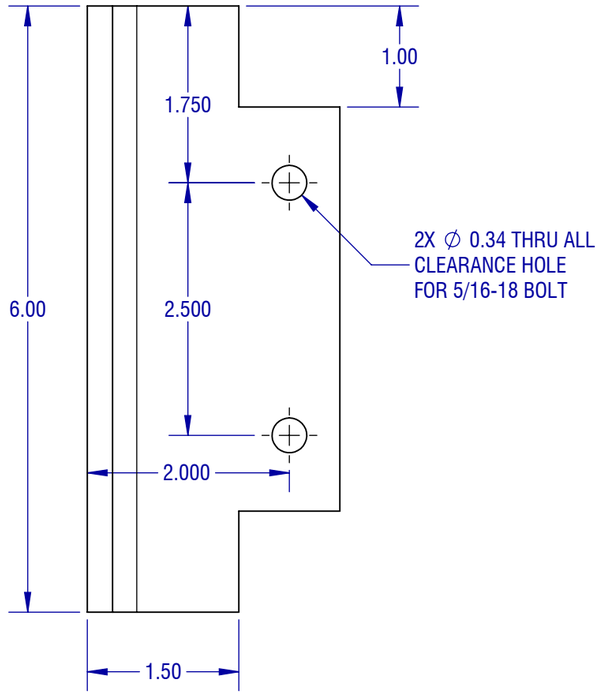
STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

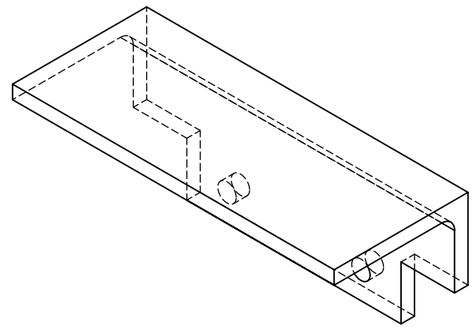
	FRAC	ANG	X.X	X.XX	X.XXX
FAB	+/- 1/16	+/- 0.5°	+/- 0.1	+/- 0.06	N/A
MACH	+/- 1/64	+/- 0.1°	+/- 0.1	+/- 0.01	+/- 0.005

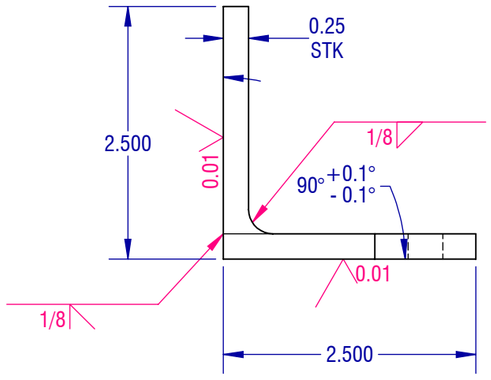
FINISH 125 UNLESS SPECIFIED
REMOVE BURRS AND SHARP EDGES

TITLE: **MAGNET PLATE WEDGE**				DRAWING NO.: OBST-028	
MODELED: M. BARRINGTON	DATE: 15-JAN-2015	DRAWN FOR: BIOLOGICALLY APPLIED ENGINEERING			
DRAWN: M. BARRINGTON	15-JAN-2015	MATERIAL: ALUMINIUM 6061 T6			
CHECKED: R. BEAUMONT	20-FEB-2015	WEIGHT (LB): 2.34		PROJ NO.: 2015-P01	
APPROVED: M. PETERSON	20-FEB-2015	SIZE: B	SCALE: 1:2	REV: --	SHEET: 4 OF 20

REVISIONS		
REV.	DESCRIPTION	DATE







NOTE

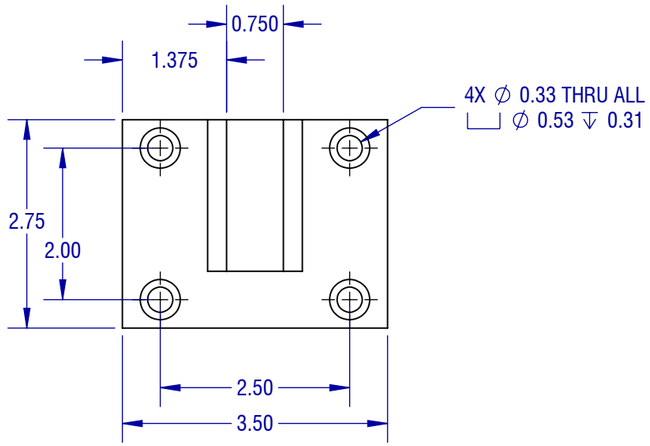
1) FABRICATED FROM SS 410 PLATE/BAR, WELDED AT CORNER

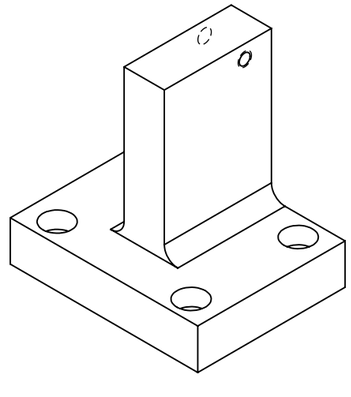
2) OUTSIDE SURFACE MACHINED AFTER WELDING, PERPENDICULARITY AND FLATNESS CRITICAL

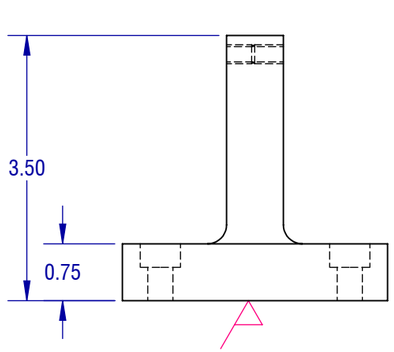
ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED. UNLESS OTHERWISE SPECIFIED, INTERPRET GD&T PER ASME Y14.5-2009, THREADS PER ASME Y14.6-2001, AND WELDING PER AWS D1.1-2010					
STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED					
	FRAC	ANG	X.X	X.XX	X.XXX
FAB	+/- 1/16	+/- 0.5°	+/- 0.1	+/- 0.06	N/A
MACH	+/- 1/64	+/- 0.1°	+/- 0.1	+/- 0.01	+/- 0.005
FINISH 125 UNLESS SPECIFIED REMOVE BURRS AND SHARP EDGES					

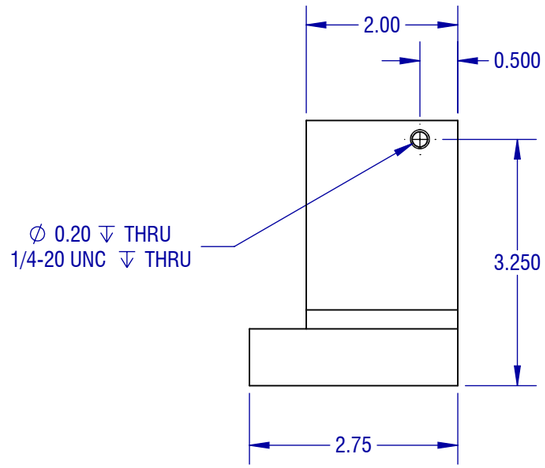
TITLE: **MAGNET PLATE**					DRAWING NO.: 0BST-029	
MODELED: M. BARRINGTON	DATE: 15-JAN-2015	DRAWN FOR: BIOLOGICALLY APPLIED ENGINEERING				
DRAWN: M. BARRINGTON	15-JAN-2015	MATERIAL: SS 410				
CHECKED: R. BEAUMONT	20-FEB-2015	WEIGHT (LB): 1.87		PROJ NO.: 2015-P01		
APPROVED: M. PETERSON	20-FEB-2015	SIZE: B	SCALE: 1:2	REV: --	SHEET: 5 OF 20	

REVISIONS		
REV.	DESCRIPTION	DATE





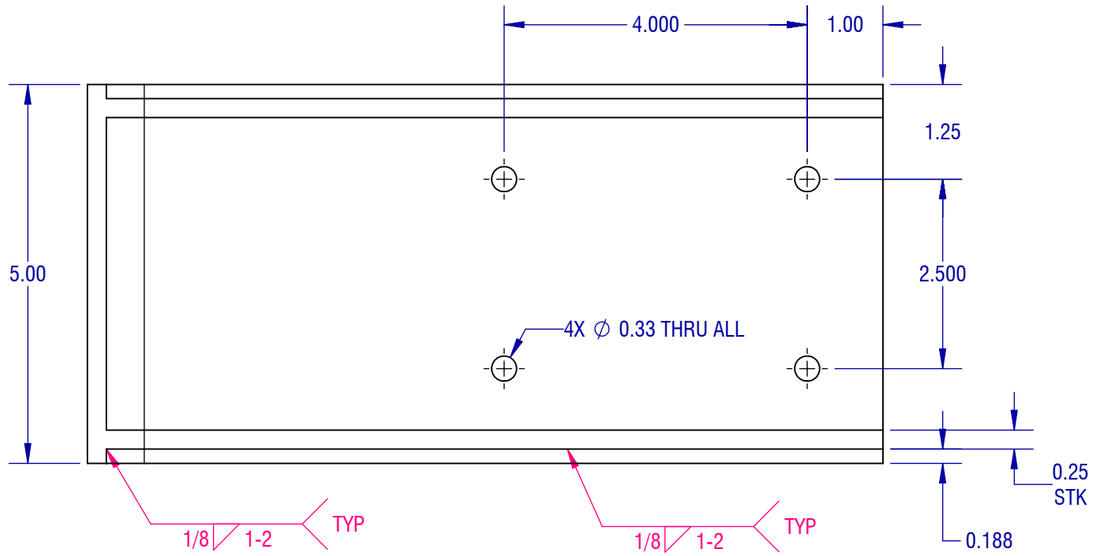


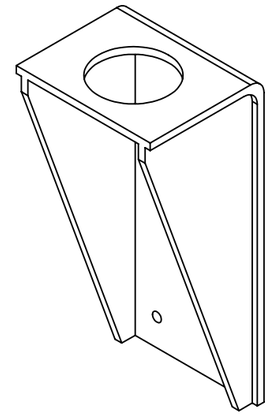


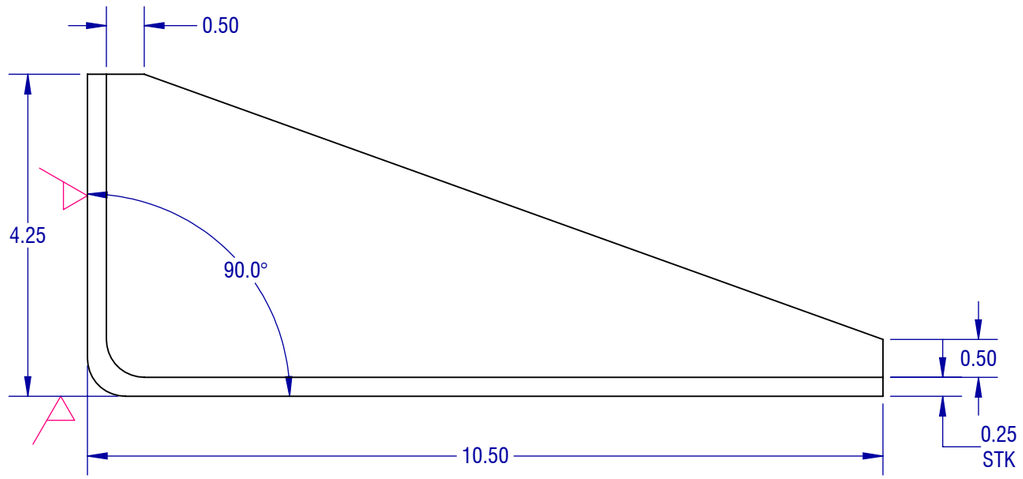
ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED. UNLESS OTHERWISE SPECIFIED, INTERPRET GD&T PER ASME Y14.5-2009, THREADS PER ASME Y14.6-2001, AND WELDING PER AWS D1.1-2010					
STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED					
	FRAC	ANG	X.X	X.XX	X.XXX
FAB	+/- 1/16	+/- 0.5°	+/- 0.1	+/- 0.06	N/A
MACH	+/- 1/64	+/- 0.1°	+/- 0.1	+/- 0.01	+/- 0.005
FINISH 125 UNLESS SPECIFIED REMOVE BURRS AND SHARP EDGES					

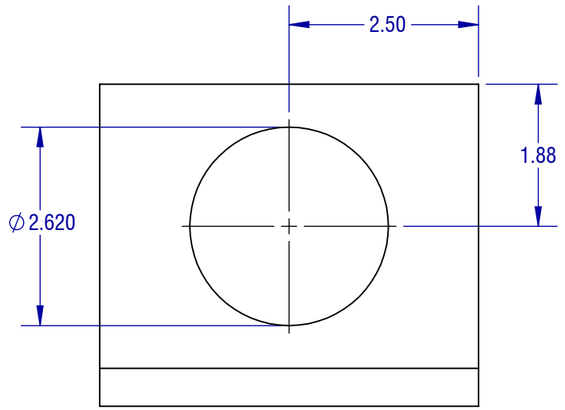
TITLE: **TRACK TEE**					DRAWING NO.: OBST-030
MODELED: M. BARRINGTON	DATE: 15-JAN-2015	DRAWN FOR: BIOLOGICALLY APPLIED ENGINEERING			
DRAWN: M. BARRINGTON	15-JAN-2015	MATERIAL: ALUMINIUM 6061 T6			
CHECKED: R. BEAUMONT	20-FEB-2015	WEIGHT (LB): 1.07		PROJ NO.: 2015-P01	
APPROVED: M. PETERSON	20-FEB-2015	SIZE: B	SCALE: 1:2	REV: --	SHEET: 6 OF 20

REVISIONS		
REV.	DESCRIPTION	DATE









ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED.

UNLESS OTHERWISE SPECIFIED, INTERPRET GD&T PER ASME Y14.5-2009, THREADS PER ASME Y14.6-2001, AND WELDING PER AWS D1.1-2010

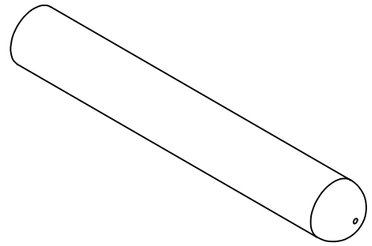
STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

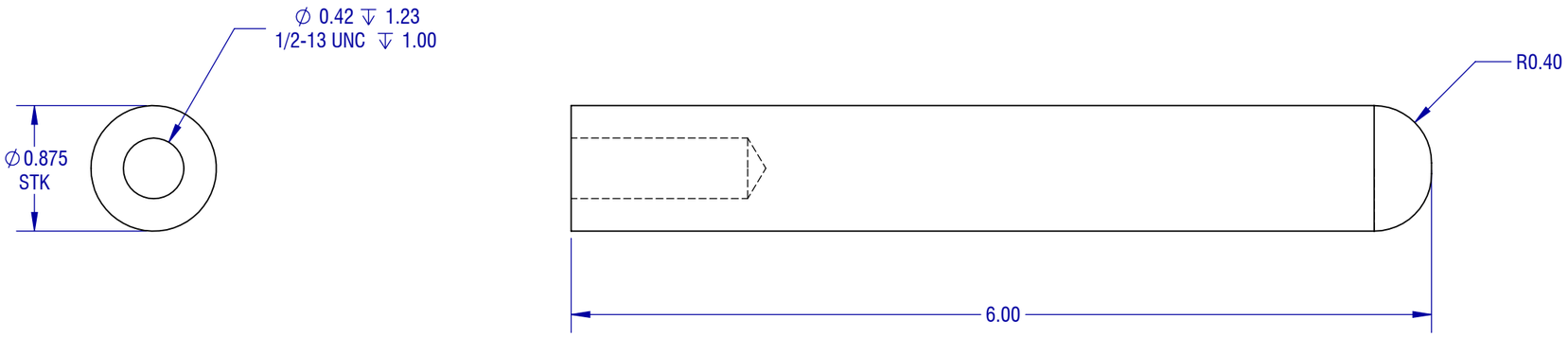
	FRAC	ANG	X.X	X.XX	X.XXX
FAB	+/- 1/16	+/- 0.5°	+/- 0.1	+/- 0.06	N/A
MACH	+/- 1/64	+/- 0.1°	+/- 0.1	+/- 0.01	+/- 0.005

FINISH 125 UNLESS SPECIFIED
REMOVE BURRS AND SHARP EDGES

TITLE: **DAMPER MOUNT**				DRAWING NO.: OBST-031	
MODELED: M. BARRINGTON	DATE: 15-JAN-2015	DRAWN FOR: BIOLOGICALLY APPLIED ENGINEERING			
DRAWN: M. BARRINGTON	15-JAN-2015	MATERIAL: ASTM A36 STEEL (BLACK)			
CHECKED: R. BEAUMONT	20-FEB-2015	WEIGHT (LB): 8.12		PROJ NO.: 2015-P01	
APPROVED: M. PETERSON	20-FEB-2015	SIZE: B	SCALE: 1:2	REV: --	SHEET: 7 OF 20

REVISIONS		
REV.	DESCRIPTION	DATE





NOTE:

1) USE GRIP: MMC 9282K25

ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED.

UNLESS OTHERWISE SPECIFIED, INTERPRET GD&T PER ASME Y14.5-2009. THREADS PER ASME Y14.6-2001, AND WELDING PER AWS D1.1-2010

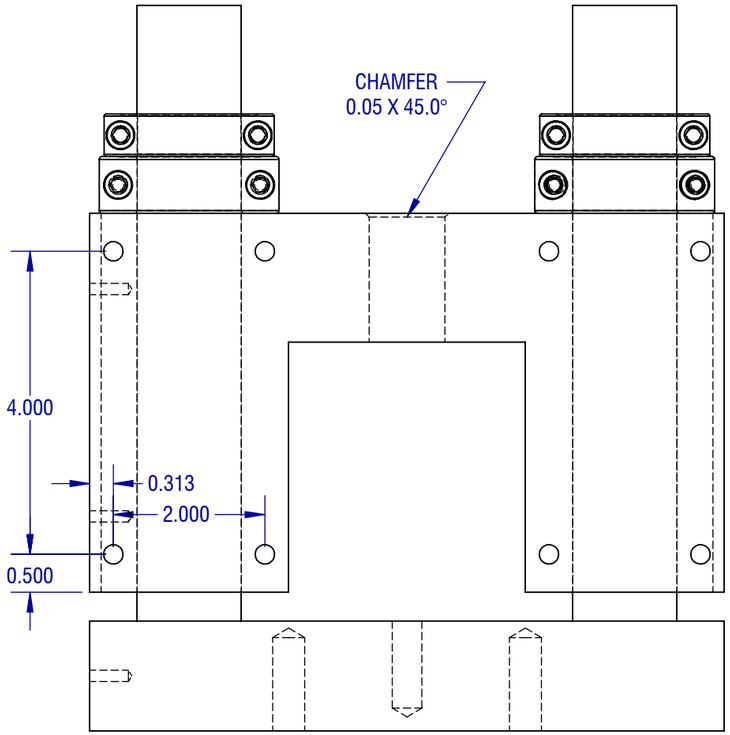
STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

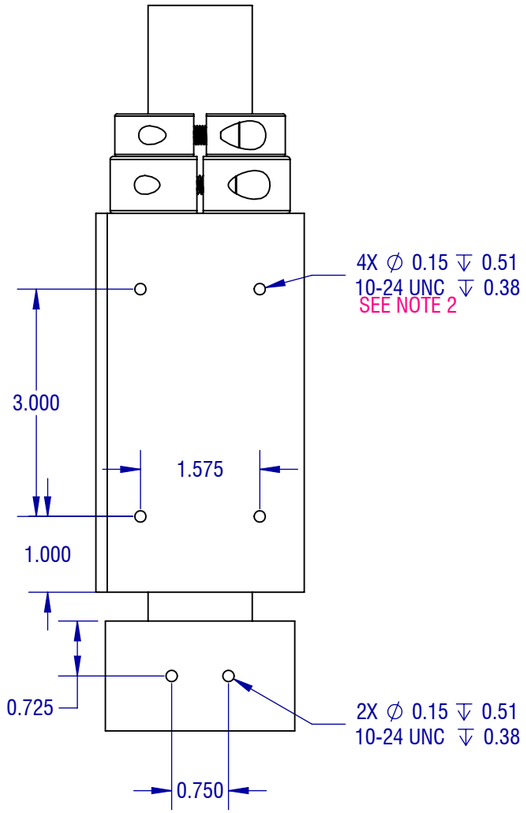
	FRAC	ANG	X.X	X.XX	X.XXX
FAB	+/- 1/16	+/- 0.5°	+/- 0.1	+/- 0.06	N/A
MACH	+/- 1/64	+/- 0.1°	+/- 0.1	+/- 0.01	+/- 0.005

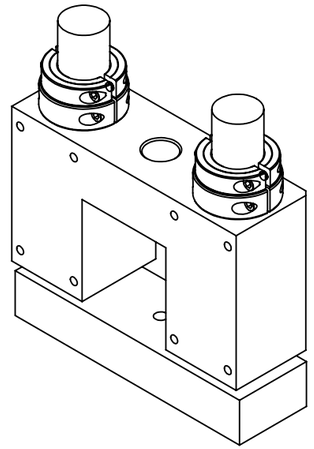
FINISH 125 UNLESS SPECIFIED
REMOVE BURRS AND SHARP EDGES

TITLE: **HANDLE**				DRAWING NO.: OBST-032	
MODELED: M. BARRINGTON	DATE: 15-JAN-2015	DRAWN FOR: BIOLOGICALLY APPLIED ENGINEERING			
DRAWN: M. BARRINGTON	16-JAN-2015	MATERIAL: ASTM A36 STEEL			
CHECKED: R. BEAUMONT	20-FEB-2015	WEIGHT (LB): 0.95		PROJ NO.: 2015-P01	
APPROVED: M. PETERSON	20-FEB-2015	SIZE: B	SCALE: 1:1	REV: --	SHEET: 8 OF 20

REVISIONS		
REV.	DESCRIPTION	DATE







NOTE:

1) PHD SLIDE P/N: SERIES SD-26

2) HOLES FOR LINEAR POTENTIOMETER
VENDER: NOVATECHNIK
P/N: LWH 75

ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED.

UNLESS OTHERWISE SPECIFIED, INTERPRET GD&T PER ASME Y14.5-2009, THREADS PER ASME Y14.6-2001, AND WELDING PER AWS D1.1-2010

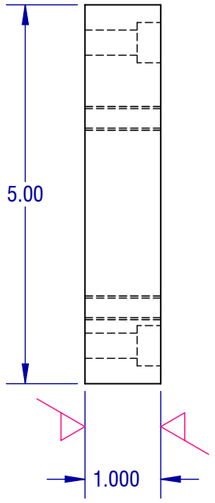
STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

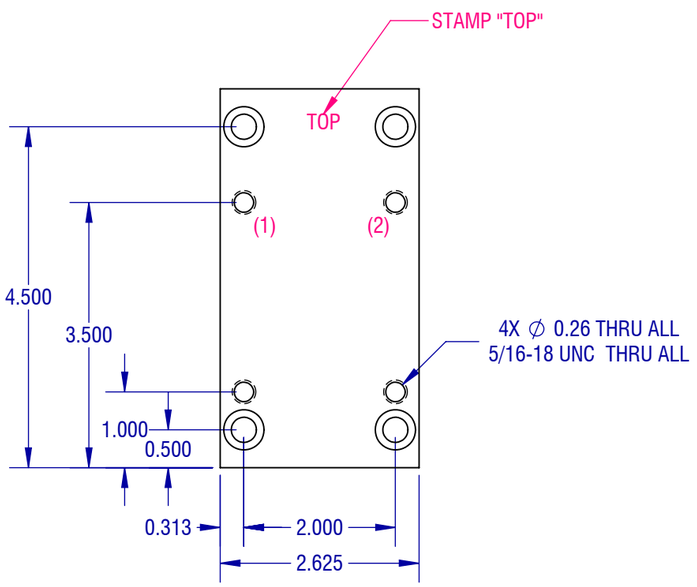
	FRAC	ANG	X.X	X.XX	X.XXX
FAB	+/- 1/16	+/- 0.5°	+/- 0.1	+/- 0.06	N/A
MACH	+/- 1/64	+/- 0.1°	+/- 0.1	+/- 0.01	+/- 0.005

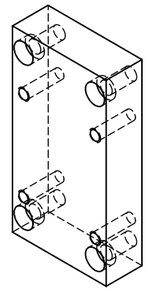
FINISH 125 UNLESS SPECIFIED
REMOVE BURRS AND SHARP EDGES

TITLE: **PHD SLIDE**				DRAWING NO.: OBST-033	
MODELED: M. BARRINGTON	DATE: 15-JAN-2015	DRAWN FOR: BIOLOGICALLY APPLIED ENGINEERING			
DRAWN: M. BARRINGTON	16-JAN-2015	MATERIAL: VARIOUS			
CHECKED: R. BEAUMONT	20-FEB-2015	WEIGHT (LB): 12.30		PROJ NO.: 2015-P01	
APPROVED: M. PETERSON	20-FEB-2015	SIZE: B	SCALE: 1:2	REV: --	SHEET: 9 OF 20

REVISIONS		
REV.	DESCRIPTION	DATE







NOTE

1) INSERT LOCATING PIN IN HOLE (1) FOR RIGHT SIDE

2) INSERT LOCATING PIN IN HOLE (2) FOR LEFT SIDE

ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED.

UNLESS OTHERWISE SPECIFIED, INTERPRET GD&T PER ASME Y14.5-2009. THREADS PER ASME Y14.6-2001, AND WELDING PER AWS D1.1-2010

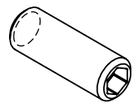
STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

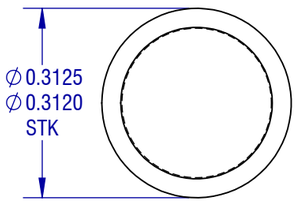
	FRAC	ANG	X.X	X.XX	X.XXX
FAB	+/- 1/16	+/- 0.5°	+/- 0.1	+/- 0.06	N/A
MACH	+/- 1/64	+/- 0.1°	+/- 0.1	+/- 0.01	+/- 0.005

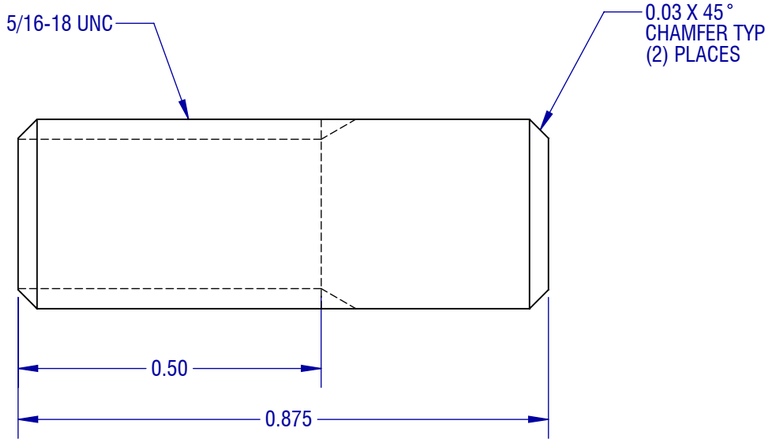
FINISH 125 UNLESS SPECIFIED
REMOVE BURRS AND SHARP EDGES

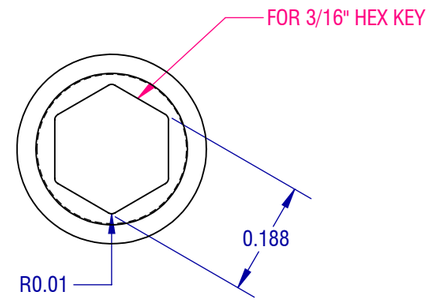
TITLE: **PHD SLIDE SPACER**				DRAWING NO.: OBST-034	
MODELED: M. BARRINGTON	DATE: 14-JAN-2015	DRAWN FOR: BIOLOGICALLY APPLIED ENGINEERING			
DRAWN: M. BARRINGTON	15-JAN-2015	MATERIAL: ALUMINUM 6061 T6			
CHECKED: R. BEAUMONT	20-FEB-2015	WEIGHT (LB): 1.21		PROJ NO.: 2015-P01	
APPROVED: M. PETERSON	20-FEB-2015	SIZE: B	SCALE: 1:2	REV: --	SHEET: 10 OF 20

REVISIONS		
REV.	DESCRIPTION	DATE









NOTE

1) STOCK: 1045 MEDIUM CARBON STEEL HIGH-STRENGTH ROD, 5/16" DIA.,12" LONG, MMC 8279T25

2) TO THREAD INTO PHD SLIDE SPACER

ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED.

UNLESS OTHERWISE SPECIFIED, INTERPRET GD&T PER ASME Y14.5-2009. THREADS PER ASME Y14.6-2001, AND WELDING PER AWS D1.1-2010

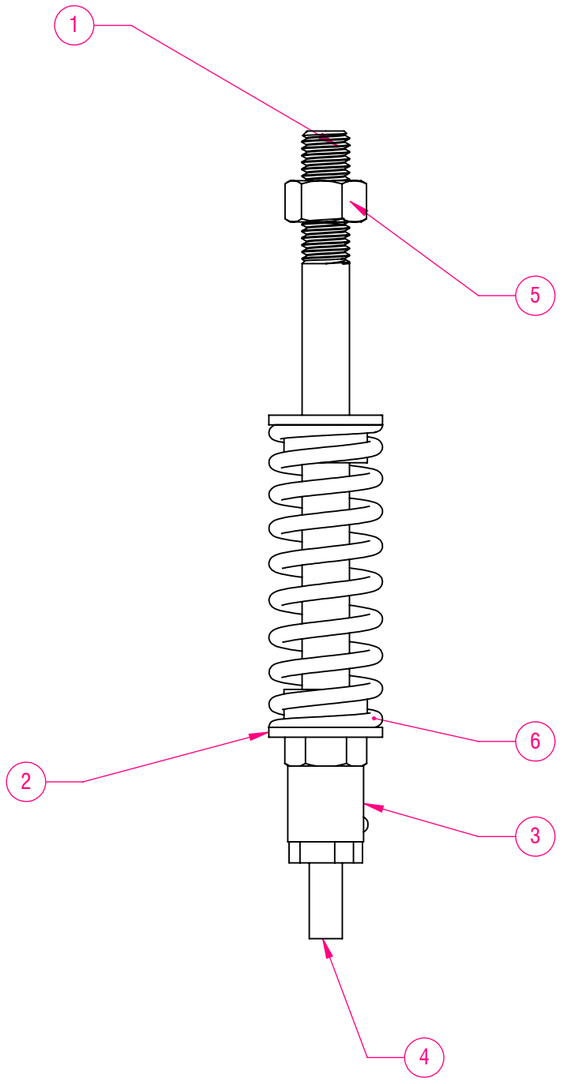
STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

	FRAC	ANG	X.X	X.XX	X.XXX
FAB	+/- 1/16	+/- 0.5°	+/- 0.1	+/- 0.06	N/A
MACH	+/- 1/64	+/- 0.1°	+/- 0.1	+/- 0.01	+/- 0.005

FINISH 125 UNLESS SPECIFIED
REMOVE BURRS AND SHARP EDGES

TITLE: **LOCATING PIN**				DRAWING NO.: OBST-035	
MODELED: M. BARRINGTON	DATE: 15-JAN-2015	DRAWN FOR: BIOLOGICALLY APPLIED ENGINEERING			
DRAWN: M. BARRINGTON	16-JAN-2015	MATERIAL: 1045 MEDIUM CARBON STEEL			
CHECKED: R. BEAUMONT	20-FEB-2015	WEIGHT (LB): 0.01		PROJ NO.: 2015-P01	
APPROVED: M. PETERSON	20-FEB-2015	SIZE: B	SCALE: 4:1	REV: --	SHEET: 11 OF 20

REVISIONS		
REV.	DESCRIPTION	DATE



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	OBST-037	HEX BOLT 5/8-11 UNC X 8" LONG	1
2	OBST-038	SPRING CAP	2
3	PCB 208C05	SINGLE AXIS LOAD CELL	1
4	OBST-039	LOAD CELL ADAPTER	1
5	MMC94804A351	5/8-11 UNC NUT	1
6	S421	SPRING 1.5X4	1

ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED.

UNLESS OTHERWISE SPECIFIED, INTERPRET GD&T PER ASME Y14.5-2009, THREADS PER ASME Y14.6-2001, AND WELDING PER AWS D1.1-2010

STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

	FRAC	ANG	X.X	X.XX	X.XXX
FAB	+/- 1/16	+/- 0.5°	+/- 0.1	+/- 0.06	N/A
MACH	+/- 1/64	+/- 0.1°	+/- 0.1	+/- 0.01	+/- 0.005

FINISH 125 UNLESS SPECIFIED
REMOVE BURRS AND SHARP EDGES

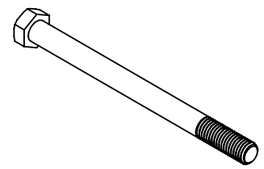
TITLE: **SPRING ASSEMBLY**

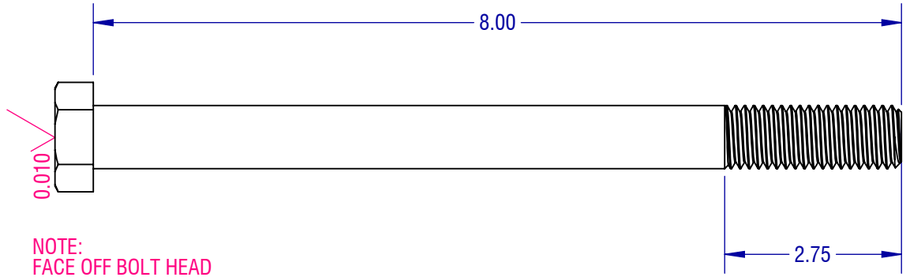
DRAWING NO.: OBST-036

MODELED	DATE	DRAWN FOR
M. BARRINGTON	15-JAN-2015	BIOLOGICALLY APPLIED ENGINEERING

DRAWN		MATERIAL	
M. BARRINGTON	16-JAN-2015	VAROUS	
CHECKED		WEIGHT (LB)	PROJ NO.
R. BEAUMONT	20-FEB-2015	0.31	2015-P01

APPROVED		SIZE	SCALE	REV	SHEET
M. PETERSON	20-FEB-2015	B	1:2	--	12 OF 20





NOTE:
FACE OFF BOLT HEAD

NOTE
1) MATERIAL: HEX BOLT 5/8-11 UNC X 8" LONG, MMC 92186A826

ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED.

UNLESS OTHERWISE SPECIFIED, INTERPRET GD&T PER ASME Y14.5-2009, THREADS PER ASME Y14.6-2001, AND WELDING PER AWS D1.1-2010

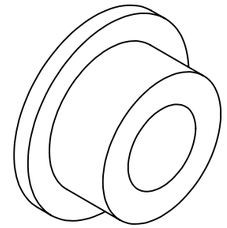
STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

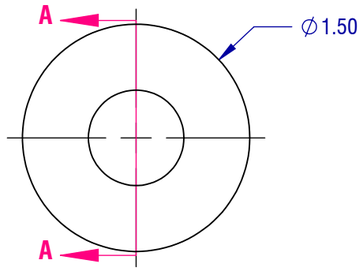
	FRAC	ANG	X.X	X.XX	X.XXX
FAB	+/- 1/16	+/- 0.5°	+/- 0.1	+/- 0.06	N/A
MACH	+/- 1/64	+/- 0.1°	+/- 0.1	+/- 0.01	+/- 0.005

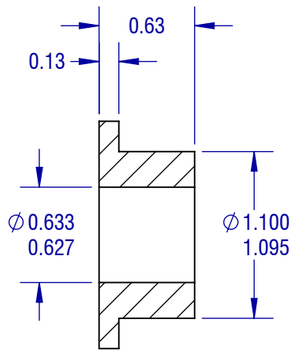
FINISH 125 UNLESS SPECIFIED
REMOVE BURRS AND SHARP EDGES

TITLE: **SPRING BOLT**				DRAWING NO.: OBST-037	
MODELED: M. BARRINGTON	DATE: 15-JAN-2015	DRAWN FOR: BIOLOGICALLY APPLIED ENGINEERING			
DRAWN: M. BARRINGTON	16-JAN-2015	MATERIAL: SS 316			
CHECKED: R. BEAUMONT	20-FEB-2015	WEIGHT (LB): 0.10		PROJ NO.: 2015-P01	
APPROVED: M. PETERSON	20-FEB-2015	SIZE: B	SCALE: 1:2	REV: --	SHEET: 13 OF 20

REVISIONS		
REV.	DESCRIPTION	DATE







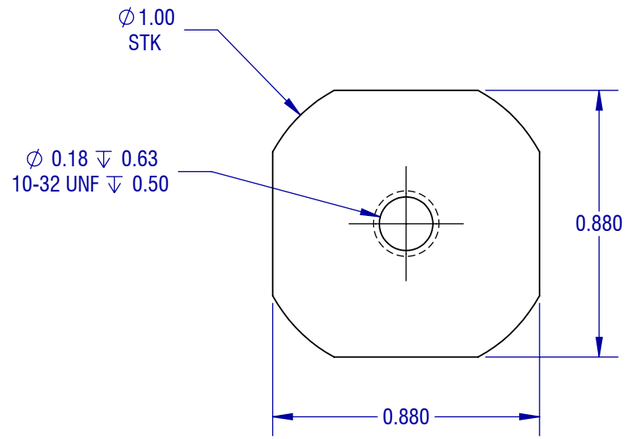
SECTION A-A

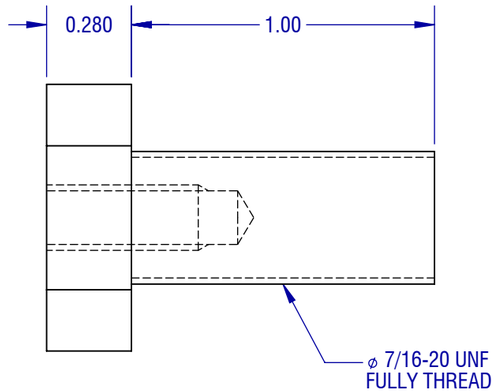
NOTE:

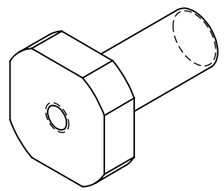
1) SPRING P/N: S421
VENDER: ASHFIELD SPRING, UK

ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED. UNLESS OTHERWISE SPECIFIED, INTERPRET GD&T PER ASME Y14.5-2009, THREADS PER ASME Y14.6-2001, AND WELDING PER AWS D1.1-2010						TITLE: **SPRING CAP**		DRAWING NO.: OBST-038	
						MODELED: M.BARRINGTON	DATE: 15-JAN-2015	DRAWN FOR: BIOLOGICALLY APPLIED ENGINEERING	
STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED						DRAWN: M. BARRINGTON	16-JAN-2015	MATERIAL: SS 304L	
	FRAC	ANG	X.X	X.XX	X.XXX	CHECKED: R. BEAUMONT	20-FEB-2015	WEIGHT (LB): 0.02	PROJ NO.: 2015-P01
FAB	+/- 1/16	+/- 0.5°	+/- 0.1	+/- 0.06	N/A				
MACH	+/- 1/64	+/- 0.1°	+/- 0.1	+/- 0.01	+/- 0.005				
FINISH 125 UNLESS SPECIFIED REMOVE BURRS AND SHARP EDGES						APPROVED: M. PETERSON	20-FEB-2015	SIZE: B / SCALE: 2:1 / REV: -- / SHEET: 14 OF 20	

REVISIONS		
REV.	DESCRIPTION	DATE







NOTE:
1) STOCK: SS 304L, ROD 1.0" DIA. X 1.5" LONG

ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED.

UNLESS OTHERWISE SPECIFIED, INTERPRET GD&T PER ASME Y14.5-2009, THREADS PER ASME Y14.6-2001, AND WELDING PER AWS D1.1-2010

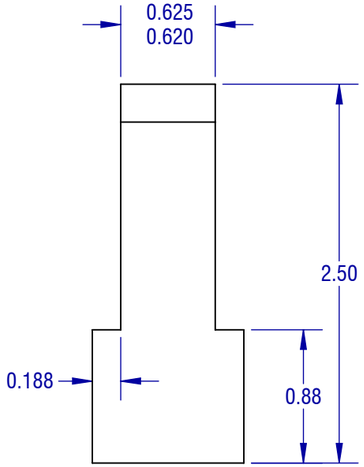
STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

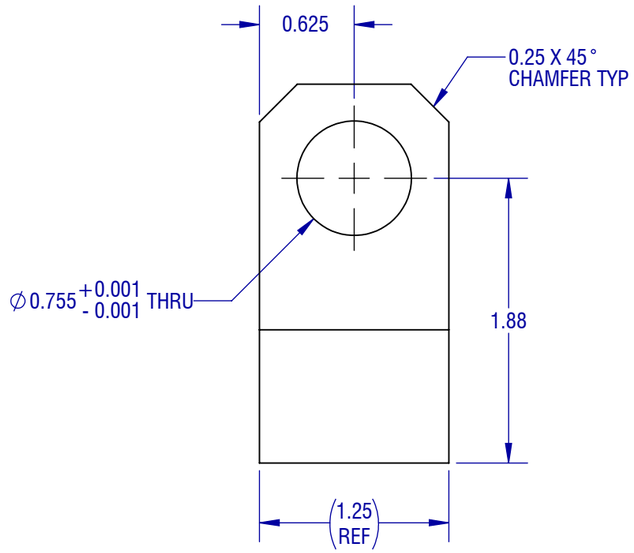
	FRAC	ANG	X.X	X.XX	X.XXX
FAB	+/- 1/16	+/- 0.5°	+/- 0.1	+/- 0.06	N/A
MACH	+/- 1/64	+/- 0.1°	+/- 0.1	+/- 0.01	+/- 0.005

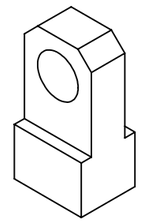
FINISH 125 UNLESS SPECIFIED
REMOVE BURRS AND SHARP EDGES

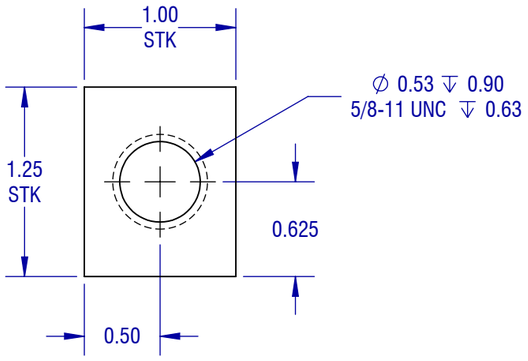
TITLE: **LOAD CELL ADAPTER**				DRAWING NO.: OBST-039	
MODELED: M. BARRINGTON	DATE: 15-JAN-2015	DRAWN FOR: BIOLOGICALLY APPLIED ENGINEERING			
DRAWN: M. BARRINGTON	16-JAN-2015	MATERIAL: SS 304L			
CHECKED: R. BEAUMONT	20-FEB-2015	WEIGHT (LB): 0.09		PROJ NO.: 2015-P01	
APPROVED: M.PETERSON	20-FEB-2015	SIZE: B	SCALE: 2:1	REV: --	SHEET: 15 OF 20

REVISIONS		
REV.	DESCRIPTION	DATE









ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED.

UNLESS OTHERWISE SPECIFIED, INTERPRET GD&T PER ASME Y14.5-2009, THREADS PER ASME Y14.6-2001, AND WELDING PER AWS D1.1-2010

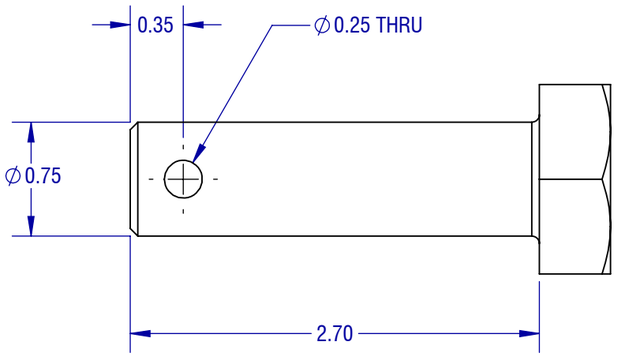
STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

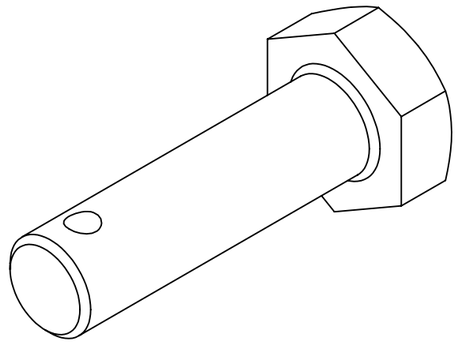
	FRAC	ANG	X.X	X.XX	X.XXX
FAB	+/- 1/16	+/- 0.5°	+/- 0.1	+/- 0.06	N/A
MACH	+/- 1/64	+/- 0.1°	+/- 0.1	+/- 0.01	+/- 0.005

FINISH 125 UNLESS SPECIFIED
REMOVE BURRS AND SHARP EDGES

TITLE: **ROD EYE**				DRAWING NO.: OBST-040	
MODELED: M. BARRINGTON	DATE: 15-JAN-2015	DRAWN FOR: BIOLOGICALLY APPLIED ENGINEERING			
DRAWN: M. BARRINGTON	16-JAN-2015	MATERIAL: 316 SS			
CHECKED: R. BEAUMONT	20-FEB-2015	WEIGHT (LB): 0.53		PROJ NO.: 2015-P01	
APPROVED: M. PETERSON	20-FEB-2015	SIZE: B	SCALE: 1:1	REV: --	SHEET: 16 OF 20

REVISIONS		
REV.	DESCRIPTION	DATE





NOTE:

1) STOCK: Steel Heavy Hex Head Structural Bolt
   3/4"-10 Thread, 4-1/2" Long
   MMC-91571A309

ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED.

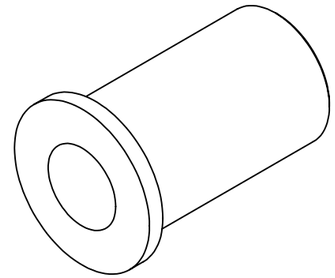
UNLESS OTHERWISE SPECIFIED, INTERPRET GD&T PER ASME Y14.5-2009, THREADS PER ASME Y14.6-2001, AND WELDING PER AWS D1.1-2010

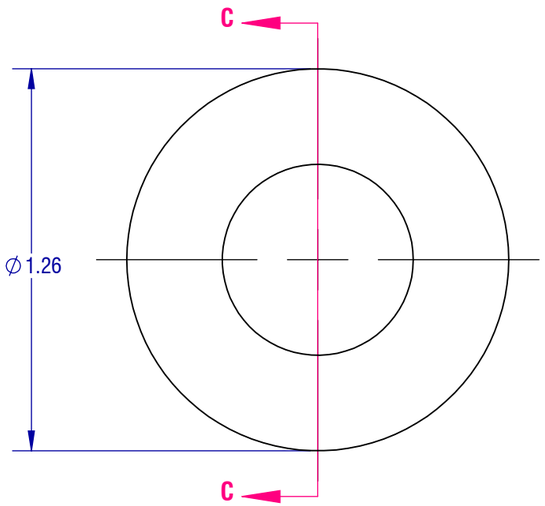
STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

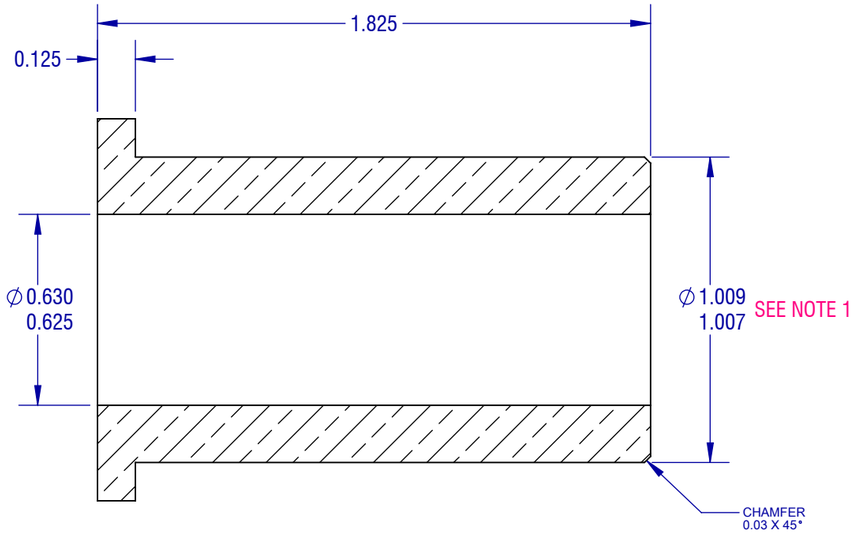
	FRAC	ANG	X.X	X.XX	X.XXX
FAB	+/- 1/16	+/- 0.5°	+/- 0.1	+/- 0.06	N/A
MACH	+/- 1/64	+/- 0.1°	+/- 0.1	+/- 0.01	+/- 0.005

FINISH 125 UNLESS SPECIFIED
REMOVE BURRS AND SHARP EDGES

TITLE: **DAMPER PIN**				DRAWING NO.: OBST-041	
MODELED: M. BARRINGTON	DATE: 17-FEB-2015	DRAWN FOR: BIOLOGICALLY APPLIED ENGINEERING			
DRAWN: M. BARRINGTON	17-FEB-2015	MATERIAL: 316 SS			
CHECKED: R. BEAUMONT	20-FEB-2015	WEIGHT (LB): 0.06		PROJ NO.: 2015-P01	
APPROVED: M. PETERSON	20-FEB-2015	SIZE: B	SCALE: 1:1	REV: --	SHEET: 17 OF 20







SECTION C-C

NOTE:
1) BUSHING OD FOR PRESS FIT INTO PHD SLIDE

ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED.

UNLESS OTHERWISE SPECIFIED, INTERPRET GD&T PER ASME Y14.5-2009, THREADS PER ASME Y14.6-2001, AND WELDING PER AWS D1.1-2010

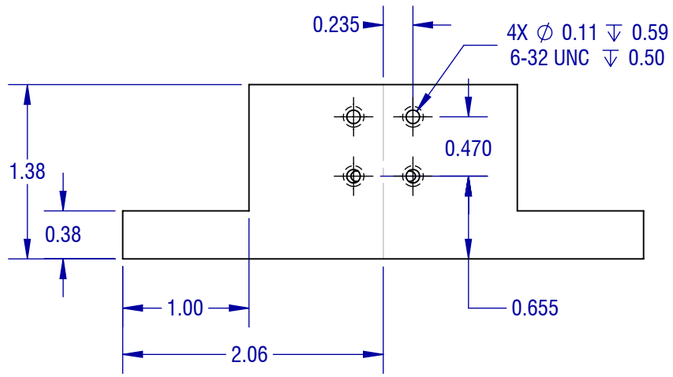
STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

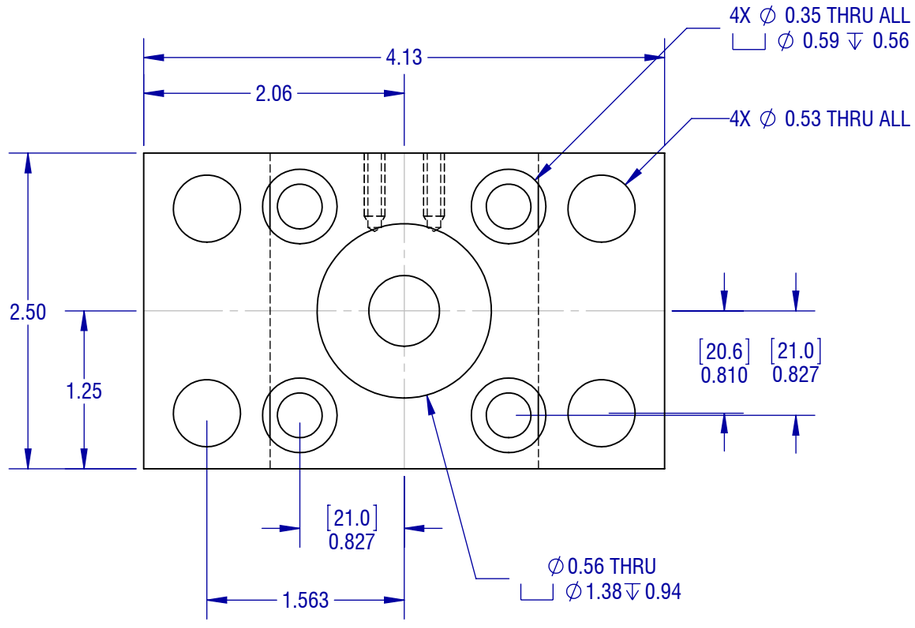
	FRAC	ANG	X.X	X.XX	X.XXX
FAB	+/- 1/16	+/- 0.5°	+/- 0.1	+/- 0.06	N/A
MACH	+/- 1/64	+/- 0.1°	+/- 0.1	+/- 0.01	+/- 0.005

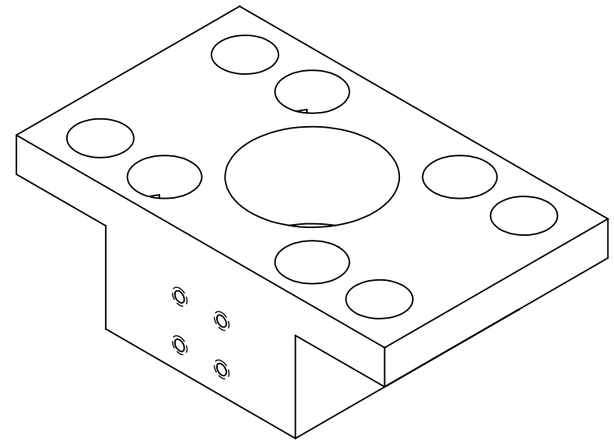
FINISH 125 UNLESS SPECIFIED
REMOVE BURRS AND SHARP EDGES

TITLE: **ROD BUSHING**				DRAWING NO.: OBST-042	
MODELED: M. BARRINGTON	DATE: 15-JAN-2015	DRAWN FOR: BIOLOGICALLY APPLIED ENGINEERING			
DRAWN: M. BARRINGTON	16-JAN-2015	MATERIAL: BRONZE SAE 660			
CHECKED: R. BEAUMONT	20-FEB-2015	WEIGHT (LB): 0.28		PROJ NO.: 2015-P01	
APPROVED: M. PETERSON	20-FEB-2015	SIZE: B	SCALE: 2:1	REV: --	SHEET: 18 OF 20

REVISIONS		
REV.	DESCRIPTION	DATE







NOTE:

1) ALL SURFACES MACHINED

ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED.

UNLESS OTHERWISE SPECIFIED, INTERPRET GD&T PER ASME Y14.5-2009. THREADS PER ASME Y14.6-2001, AND WELDING PER AWS D1.1-2010

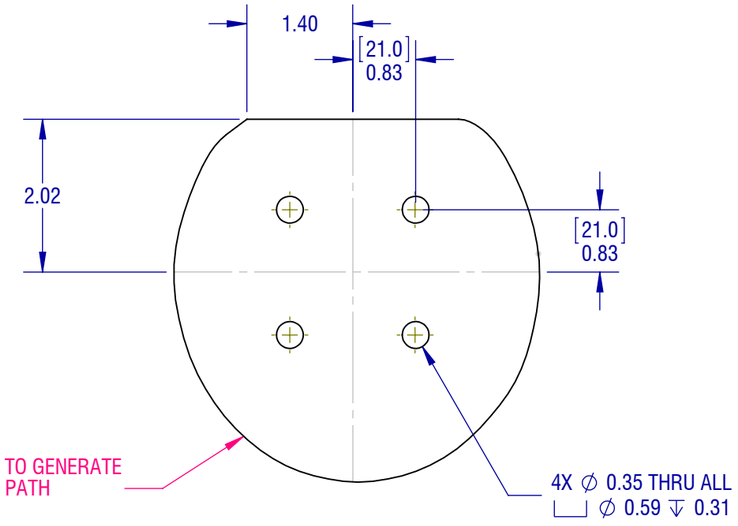
STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

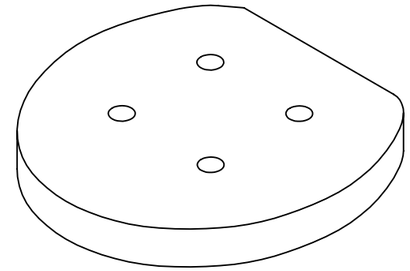
	FRAC	ANG	X.X	X.XX	X.XXX
FAB	+/- 1/16	+/- 0.5°	+/- 0.1	+/- 0.06	N/A
MACH	+/- 1/64	+/- 0.1°	+/- 0.1	+/- 0.01	+/- 0.005

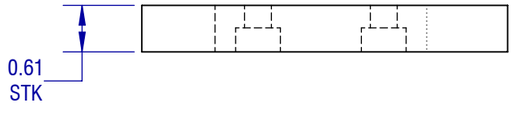
FINISH 125 UNLESS SPECIFIED
REMOVE BURRS AND SHARP EDGES

TITLE: **ACCELEROMETER MOUNT**				DRAWING NO.: OBST-043	
MODELED: M. BARRINGTON	DATE: 15-JAN-2015	DRAWN FOR: BIOLOGICALLY APPLIED ENGINEERING			
DRAWN: M. BARRINGTON	16-JAN-2015	MATERIAL: ALUMINUM 6061 T6			
CHECKED: R. BEAUMONT	20-FEB-2015	WEIGHT (LB): 0.63		PROJ NO.: 2015-P01	
APPROVED: M. PETERSON	20-FEB-2015	SIZE: B	SCALE: 1:1	REV: --	SHEET: 19 OF 20

REVISIONS		
REV.	DESCRIPTION	DATE







NOTE:

1) STOCK: ALUMINUM 6061T6 5/8" PLATE

2) ALL SURFACES MACHINED

ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED.

UNLESS OTHERWISE SPECIFIED, INTERPRET GD&T PER ASME Y14.5-2009, THREADS PER ASME Y14.6-2001, AND WELDING PER AWS D1.1-2010

STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

	FRAC	ANG	X.X	X.XX	X.XXX
FAB	+/- 1/16	+/- 0.5°	+/- 0.1	+/- 0.06	N/A
MACH	+/- 1/64	+/- 0.1°	+/- 0.1	+/- 0.01	+/- 0.005

FINISH 125 UNLESS SPECIFIED
REMOVE BURRS AND SHARP EDGES

TITLE: **HOOF BASE**				DRAWING NO.: OBST-044	
MODELED: M. BARRINGTON	DATE: 15-JAN-2015	DRAWN FOR: BIOLOGICALLY APPLIED ENGINEERING			
DRAWN: M. BARRINGTON	16-JAN-2015	MATERIAL: ALUMINUM 6061 T6			
CHECKED: R. BEAUMONT	20-FEB-2015	WEIGHT (LB): 1.10		PROJ NO.: 2015-P01	
APPROVED: M. PETERSON	20-FEB-2015	SIZE: B	SCALE: 1:2	REV: --	SHEET: 20 OF 20