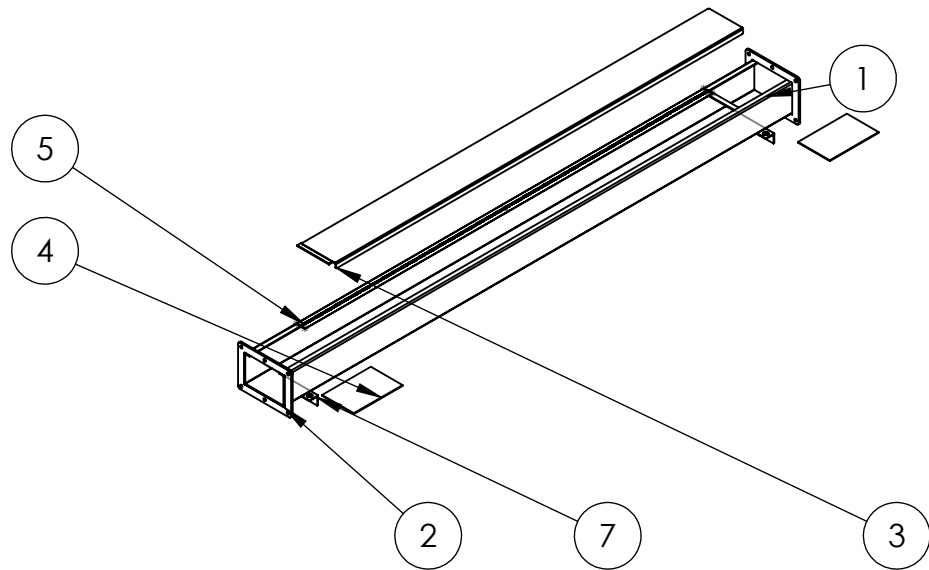
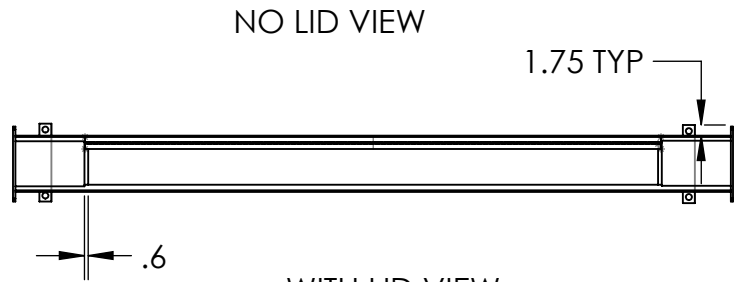


ITEM NO.	PART NUMBER	QTY.
1	Channel_C_9x6	1
2	Flange_006	2
3	Channel_lid_10ft_9in	1
4	Channel_9in_Lid 12in	2
5	1581A43	1
6	Channel_filler	2
7	Str_spacer_08	2

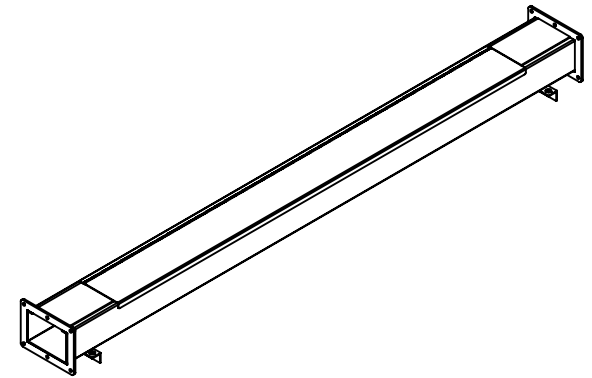
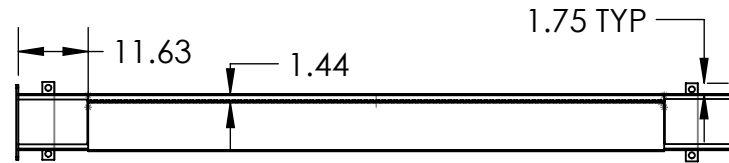


PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

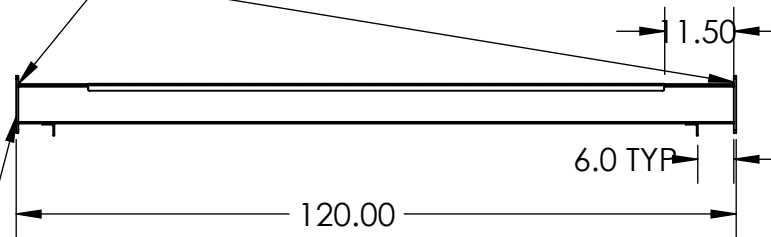
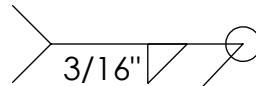
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012	
		TOLERANCES:		CHECKED			TITLE:
		FRACTIONAL $\pm 1/16$		ENG APPR.			Narrow Channel
		ANGULAR: MACH ± 0.5 BEND ± 2		MFG APPR.			
		ONE PLACE DECIMAL $\pm .1$		Q.A.			
		TWO PLACE DECIMAL $\pm .06$		COMMENTS:			
		THREE PLACE DECIMAL ± 0.030					
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					SIZE DWG. NO. REV
		MATERIAL					A Channel_6x9_10ft 01
NEXT ASSY	USED ON	FINISH					SCALE: 1:25 WEIGHT: 71.34 SHEET 1 OF 6
APPLICATION		DO NOT SCALE DRAWING					



WITH LID VIEW



MOUNT FLANGES FLUSH WITH END



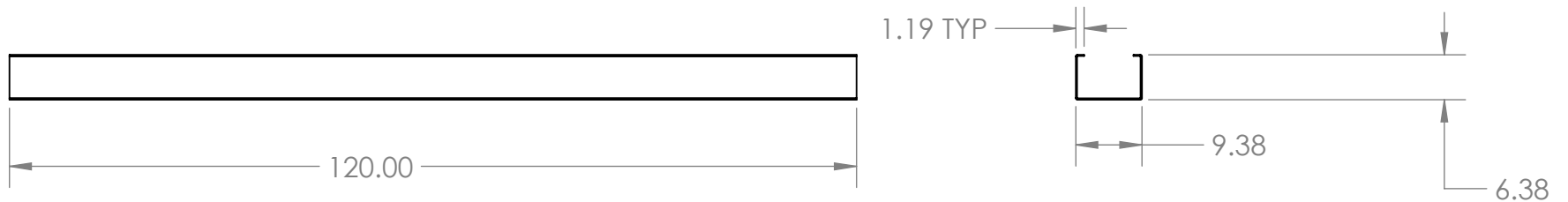
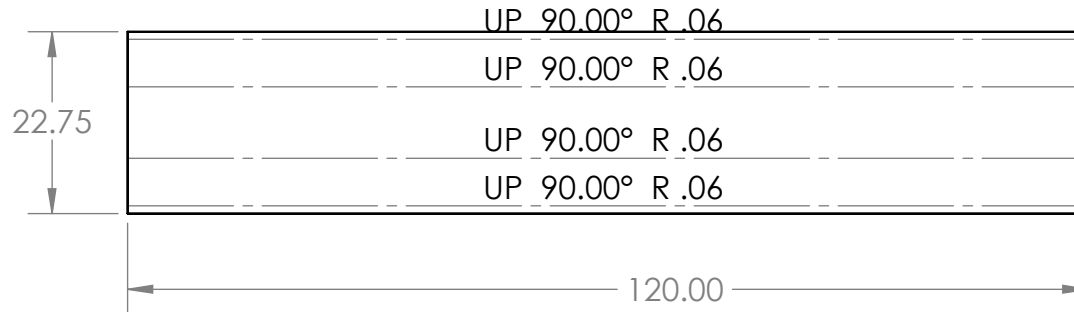
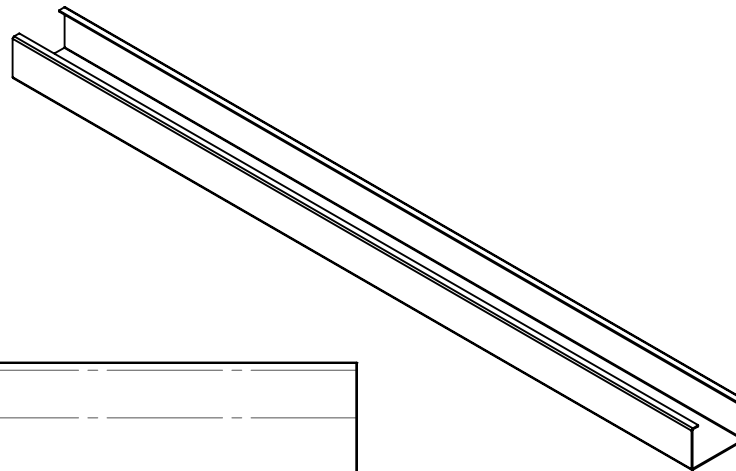
GRIND FACES FLUSH
NO BURRS INSIDE CHANNEL
TYP OF ALL FLANGE MOUNTS



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

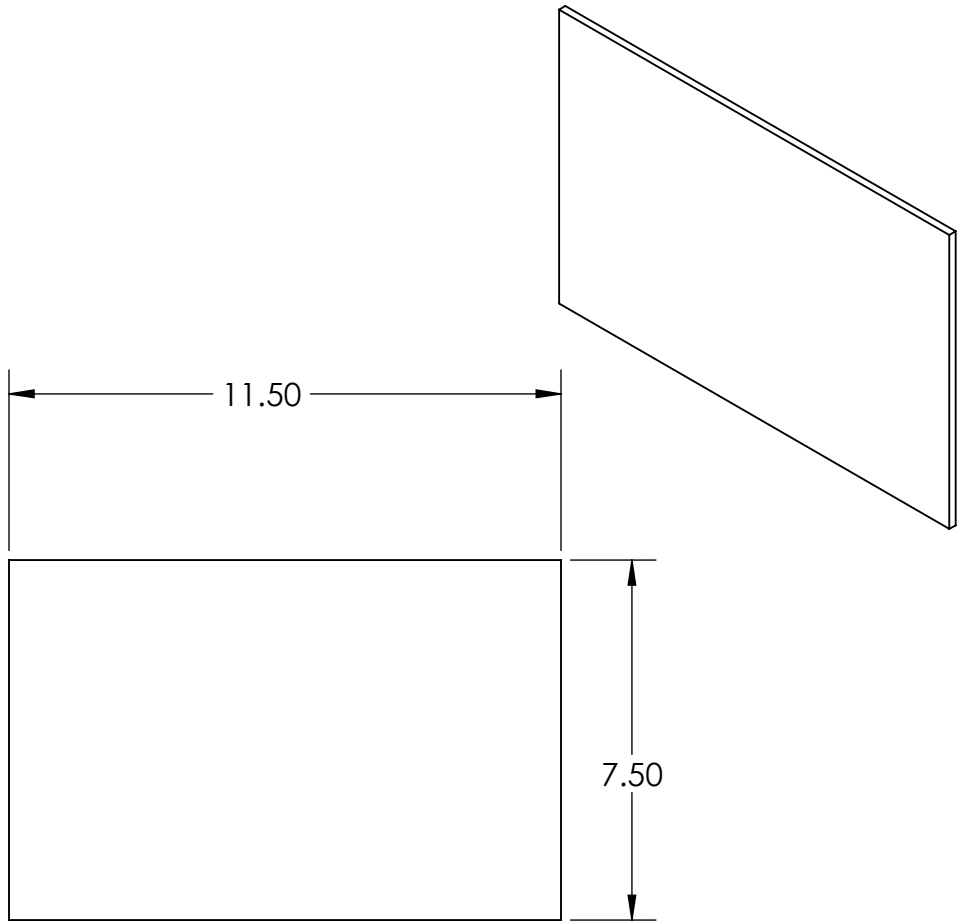
		UNLESS OTHERWISE SPECIFIED:	NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ
		TOLERANCES:	CHECKED	11/28/2012
		FRACTIONAL ± 1/16	ENG APPR.	
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.	
		ONE PLACE DECIMAL ± .1	Q.A.	
		TWO PLACE DECIMAL ± .06	COMMENTS:	
		THREE PLACE DECIMAL ± 0.030		
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100		
		MATERIAL		
NEXT ASSY	USED ON	FINISH		
APPLICATION		DO NOT SCALE DRAWING		

STOCK SIZE:		
TITLE: Narrow Channel		
SIZE A	DWG. NO. Channel_6x9_10ft	REV 01
SCALE: 1:32	WEIGHT: 71.34	SHEET 2 OF 6



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012	
		TOLERANCES:		CHECKED			TITLE:
		FRACTIONAL ± 1/16		ENG APPR.			
		ANGULAR: MACH ±0.5 BEND ±2		MFG APPR.			
		ONE PLACE DECIMAL ±.1		Q.A.			
		TWO PLACE DECIMAL ±.06		COMMENTS:			
		THREE PLACE DECIMAL ±0.030					
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					
		MATERIAL					
NEXT ASSY	USED ON	FINISH				SIZE	DWG. NO.
APPLICATION		DO NOT SCALE DRAWING				A	Channel_C_9x6
							REV
							01
						SCALE: 1:24	WEIGHT:
							SHEET 3 OF 6

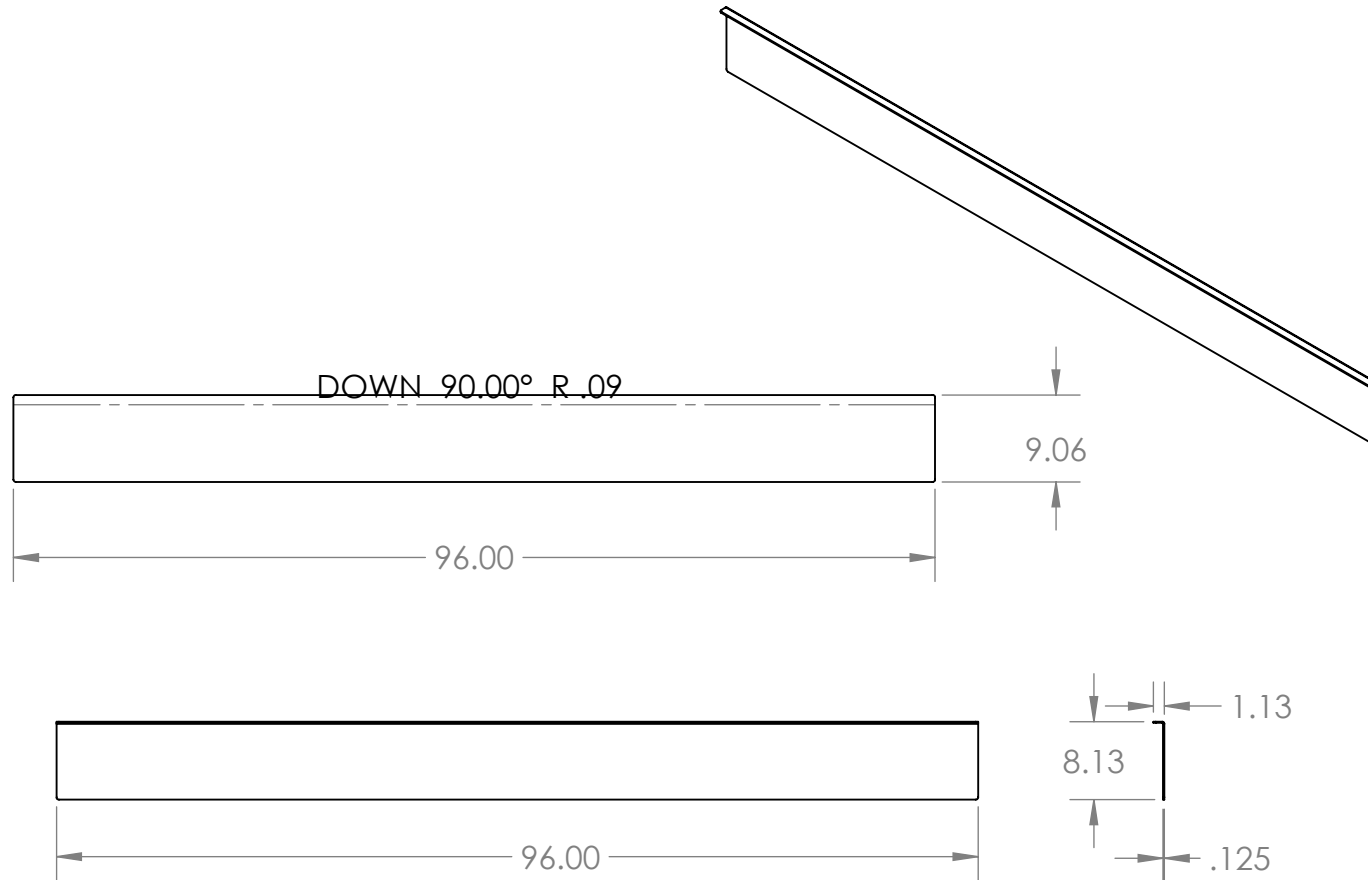


PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012
		TOLERANCES:	CHECKED		
		FRACTIONAL $\pm 1/16$	ENG APPR.		
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.		
		ONE PLACE DECIMAL $\pm .1$	Q.A.		
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:		
		THREE PLACE DECIMAL ± 0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100			
		MATERIAL			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

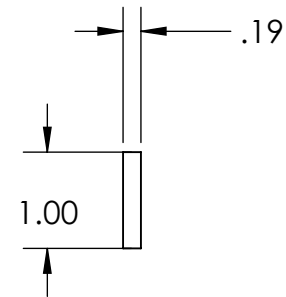
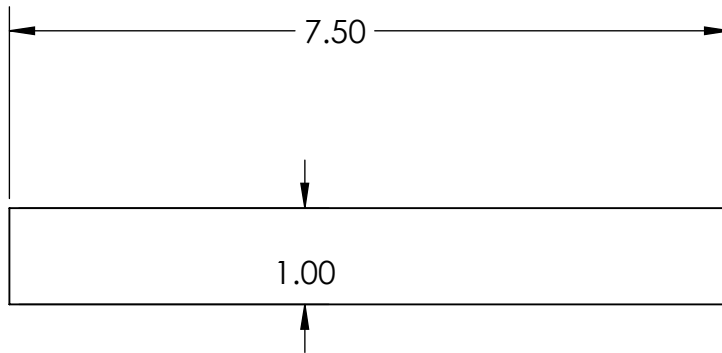
STOCK SIZE:		
TITLE:		
SIZE	DWG. NO.	REV
A	Channel_9in_Lid 12in	01
SCALE: 1:4	WEIGHT:	SHEET 4 OF 6



PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

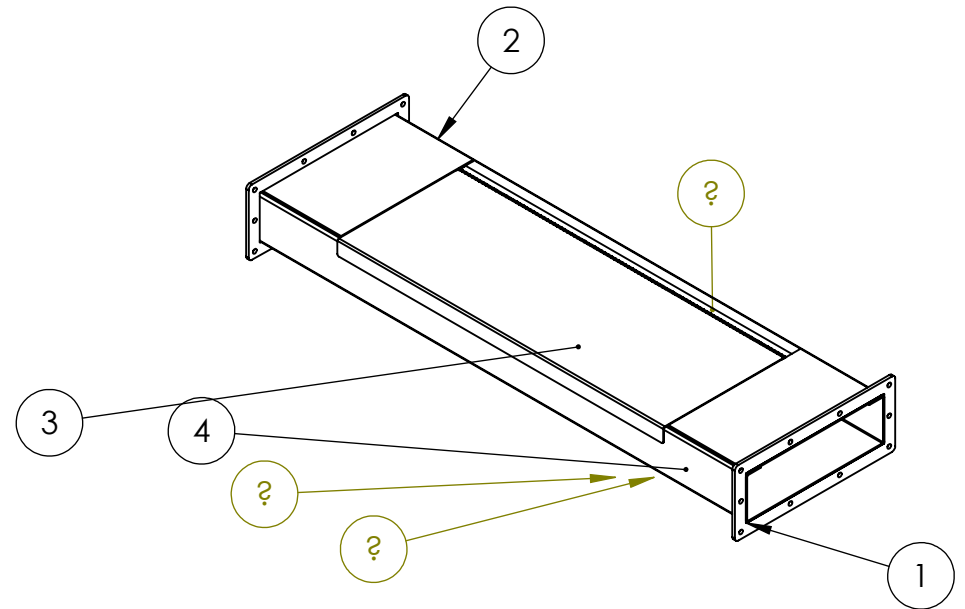
		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012	TITLE: Lid For Narrow Channel
		TOLERANCES:	CHECKED			
		FRACTIONAL ± 1/16	ENG APPR.			
		ANGULAR: MACH ±0.5 BEND ±2	MFG APPR.			
		ONE PLACE DECIMAL ±.1	Q.A.			
		TWO PLACE DECIMAL ±.06	COMMENTS:			
		THREE PLACE DECIMAL ±0.030				
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100				SIZE DWG. NO. REV
		MATERIAL				A Channel_lid_10ft_9in 01
NEXT ASSY	USED ON	FINISH				SCALE: 1:20 WEIGHT: SHEET 5 OF 6
APPLICATION		DO NOT SCALE DRAWING				



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012	TITLE:
		TOLERANCES:	CHECKED			
		FRACTIONAL $\pm 1/16$	ENG APPR.			
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.			
		ONE PLACE DECIMAL $\pm .1$	Q.A.			
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:			SIZE
		THREE PLACE DECIMAL ± 0.030				DWG. NO.
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100				Channel_filler
		MATERIAL				REV
		FINISH				01
NEXT ASSY	USED ON					SCALE: 1:2
APPLICATION		DO NOT SCALE DRAWING				WEIGHT:
						SHEET 6 OF 6

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Flange_005	Flange, 21"x8"	2
2	Channel_20x12_Lid 4in		2
3	Channel_lid 6ft		1
4	C-Channel_10'x8" x20"	C Channel, 10ft	1
5	1581A93		1
6	Channel_filler-20in		2

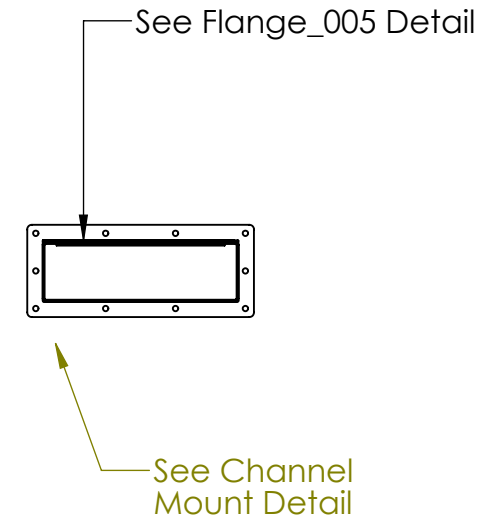
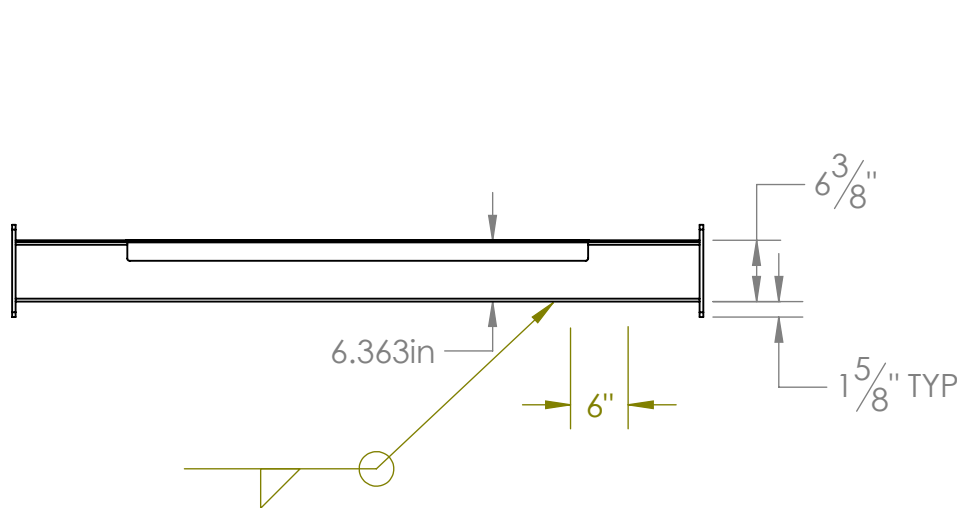
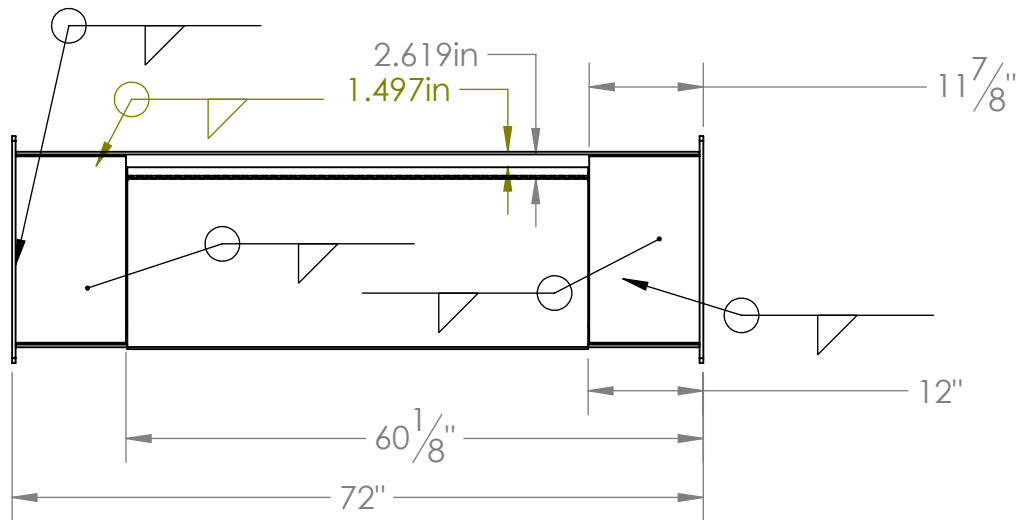


PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES		DRAWN	JCS	11/28/2012	
		TOLERANCES:		CHECKED			TITLE:
		FRACTIONAL ± 1/16		ENG APPR.			Climbing Duct, 6ft
		ANGULAR: MACH ±0.5 BEND ±2		MFG APPR.			
		ONE PLACE DECIMAL ±.1		Q.A.			
		TWO PLACE DECIMAL ±.06		COMMENTS:			
		THREE PLACE DECIMAL ±0.030					
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					
		MATERIAL					
NEXT ASSY	USED ON	FINISH					
APPLICATION		DO NOT SCALE DRAWING					

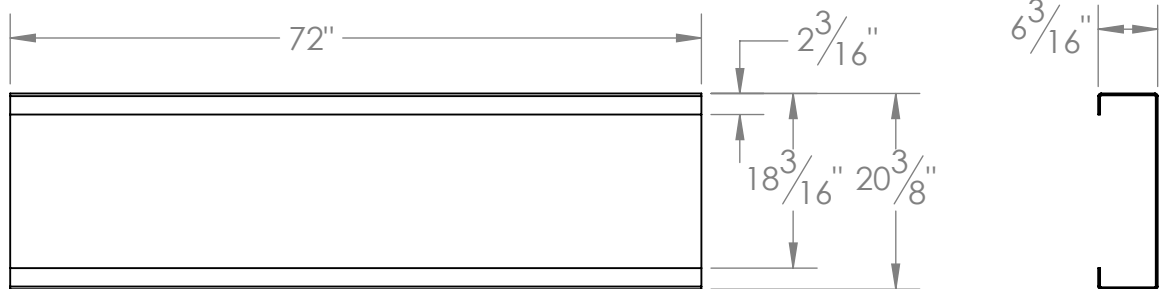
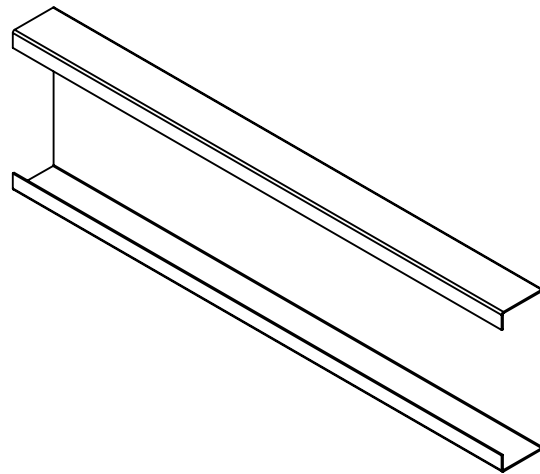
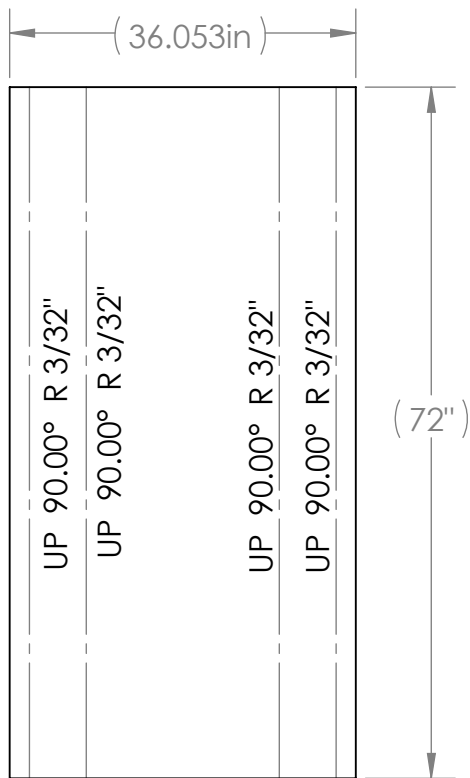
SIZE	DWG. NO.	REV
A	Channel_8x20_6ft	01
SCALE: 1:20	WEIGHT:	SHEET 1 OF 5



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	JCS 11/28/2012
		TOLERANCES:	CHECKED	
		FRACTIONAL ± 1/16	ENG APPR.	
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.	
		ONE PLACE DECIMAL ± .1	Q.A.	
		TWO PLACE DECIMAL ± .06	COMMENTS:	
		THREE PLACE DECIMAL ± 0.030		
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100		
		MATERIAL		
		5052-H32		
		FINISH		
NEXT ASSY	USED ON			
APPLICATION		DO NOT SCALE DRAWING		

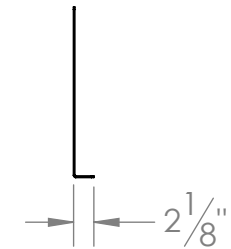
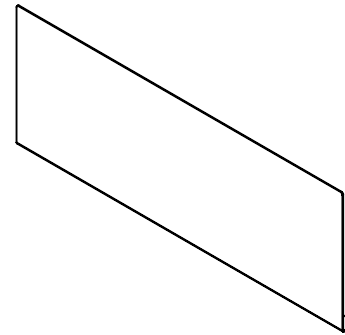
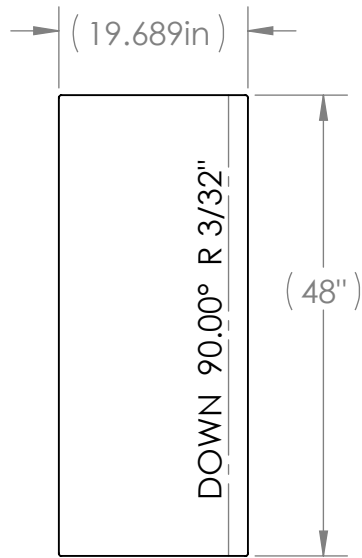
STOCK SIZE:		
TITLE: Climbing Duct, 6ft		
SIZE	DWG. NO.	REV
A	Channel_8x20_6ft	01
SCALE: 1:20	WEIGHT:	SHEET 2 OF 5



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	JCS 11/28/2012
		TOLERANCES:	CHECKED	
		FRACTIONAL ± 1/16	ENG APPR.	
		ANGULAR: MACH ±0.5 BEND ±2	MFG APPR.	
		ONE PLACE DECIMAL ±.1	Q.A.	
		TWO PLACE DECIMAL ±.06	COMMENTS:	
		THREE PLACE DECIMAL ±0.030		
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100		
		MATERIAL		
		5052-H32		
NEXT ASSY	USED ON	FINISH		
APPLICATION		DO NOT SCALE DRAWING		

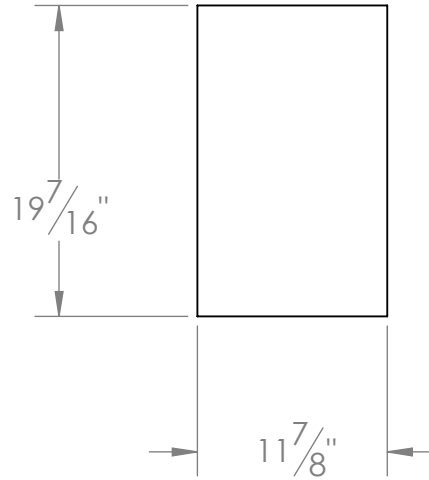
STOCK SIZE:			3/16"
TITLE:			
SIZE	DWG. NO.	REV	
A	C-Channel_8x20_6ft	01	
SCALE: 1:20	WEIGHT:	SHEET 3 OF 5	



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	JCS
		TOLERANCES:	CHECKED	
		FRACTIONAL ± 1/16	ENG APPR.	
		ANGULAR: MACH ±0.5 BEND ±2	MFG APPR.	
		ONE PLACE DECIMAL ±.1	Q.A.	
		TWO PLACE DECIMAL ±.06	COMMENTS:	
		THREE PLACE DECIMAL ±0.030		
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100		
		MATERIAL		
NEXT ASSY	USED ON	FINISH		
APPLICATION		DO NOT SCALE DRAWING		

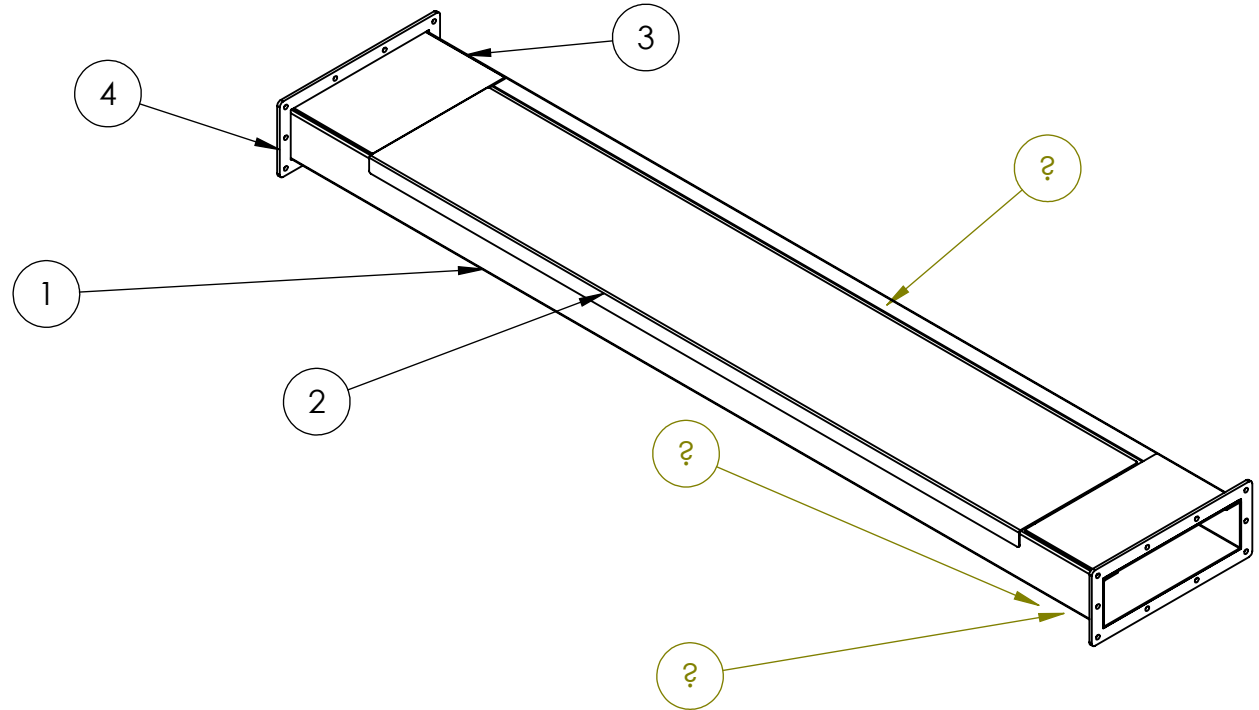
STOCK SIZE: 1/8"		
TITLE:		
SIZE	DWG. NO.	REV
A	Channel_lid 6ft	01
SCALE: 1:20	WEIGHT:	SHEET 4 OF 5



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

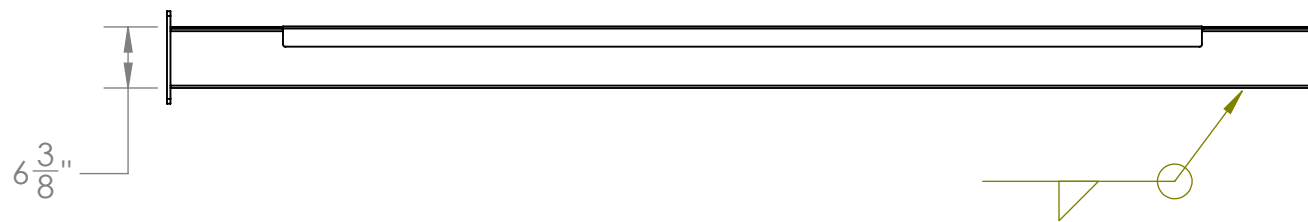
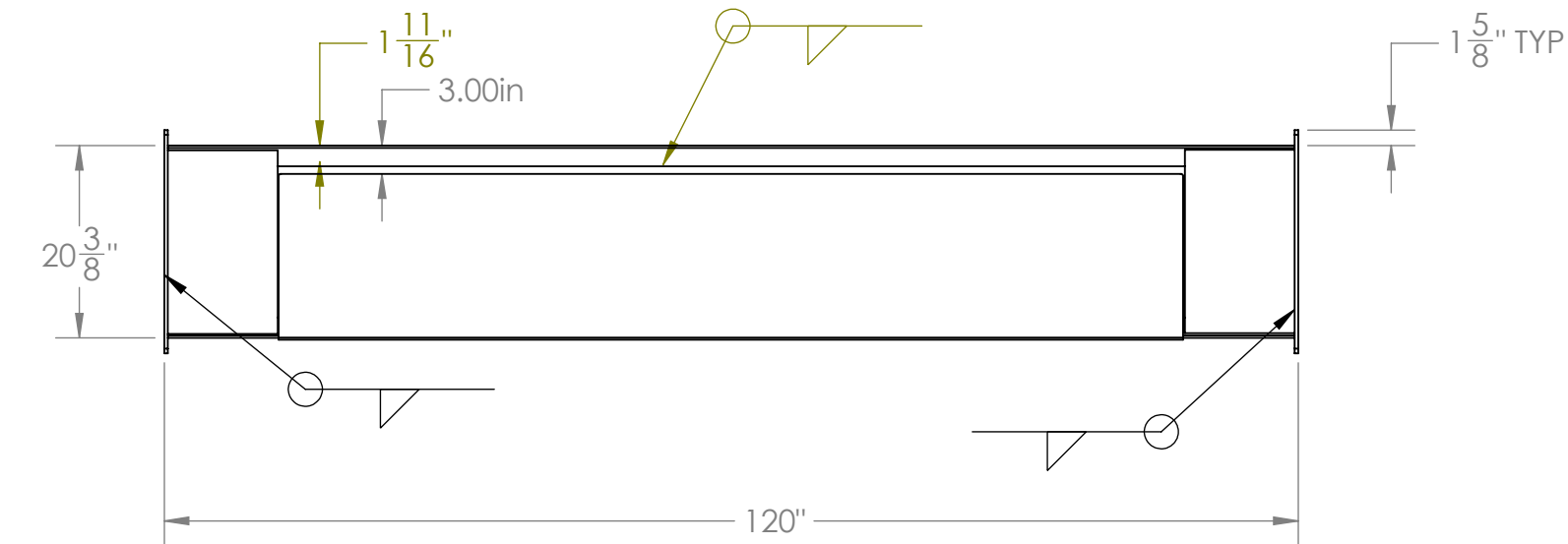
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE: $1/8$ "	
		DIMENSIONS ARE IN INCHES	DRAWN	JCS	11/28/2012	TITLE:	
		TOLERANCES:	CHECKED				
		FRACTIONAL $\pm 1/16$	ENG APPR.				
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.				
		ONE PLACE DECIMAL $\pm .1$	Q.A.				
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:			SIZE	DWG. NO.
		THREE PLACE DECIMAL ± 0.030				A	Channel_20x12_Lid 4in
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					REV
		MATERIAL					01
NEXT ASSY	USED ON	FINISH				SCALE: 1:12	WEIGHT:
		DO NOT SCALE DRAWING					SHEET 5 OF 5

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	C-Channel_8x20_10ft	C-CHANNEL, 10FT	1
2	Channel_lid 10ft	CHANNEL LID, 10FT	1
3	Channel_20x12_Lid 12in	LID, SPACER	2
4	Flange_005	Flange, 21"x8"	2

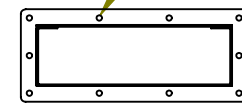


PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES		DRAWN	JCS	11/28/2012	
		TOLERANCES:		CHECKED			TITLE:
		FRACTIONAL ± 1/16		ENG APPR.			
		ANGULAR: MACH ± 0.5 BEND ± 2		MFG APPR.			
		ONE PLACE DECIMAL ± .1		Q.A.			
		TWO PLACE DECIMAL ± .06		COMMENTS:			
		THREE PLACE DECIMAL ± 0.030					
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					
		MATERIAL					
NEXT ASSY	USED ON	FINISH				SIZE	DWG. NO.
		DO NOT SCALE DRAWING				A	Channel_8x20_10ft
							REV
							01
						SCALE: 1:20	WEIGHT:
							SHEET 1 OF 5



See Flange_007 Detail

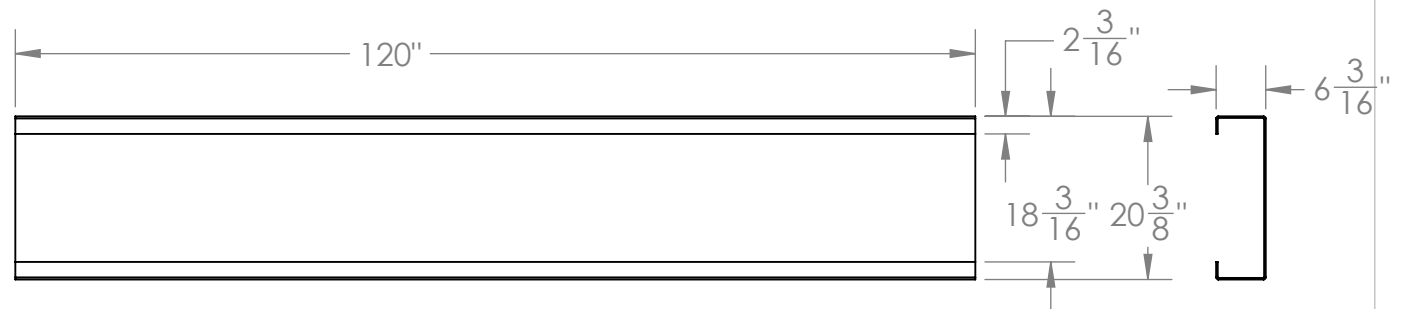
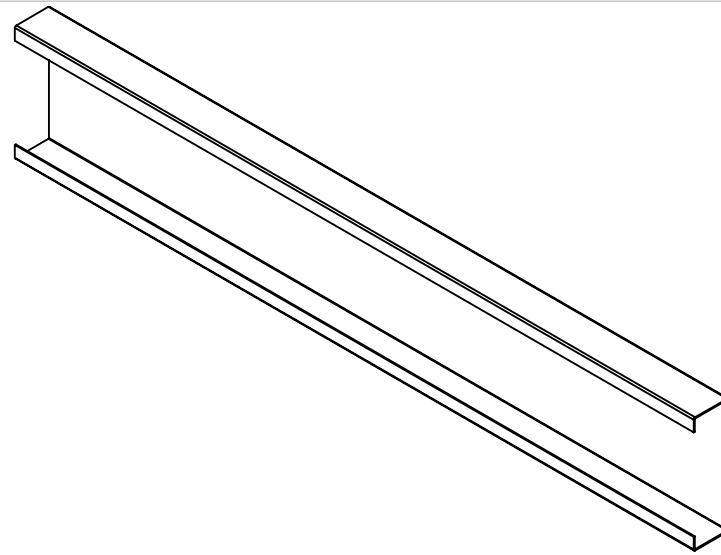
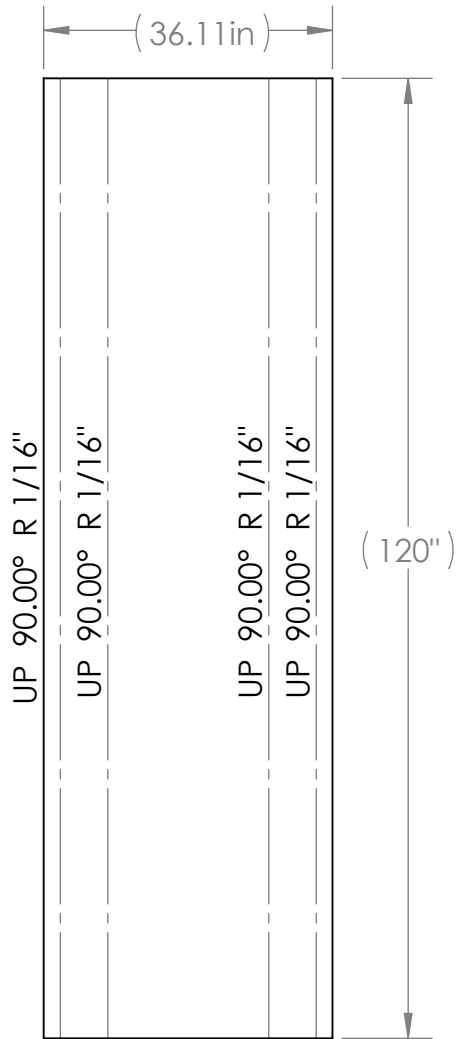


See Channel Mount Detail



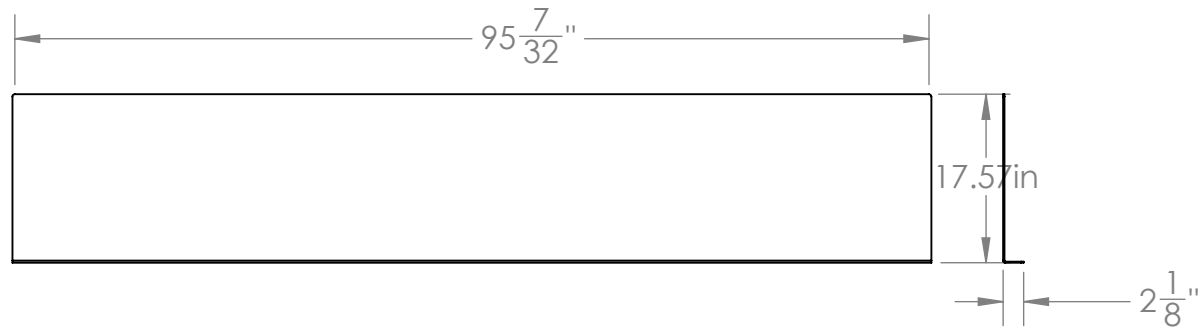
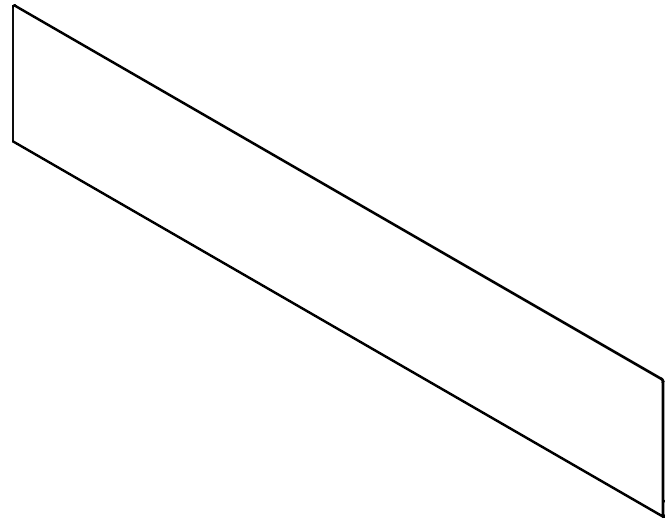
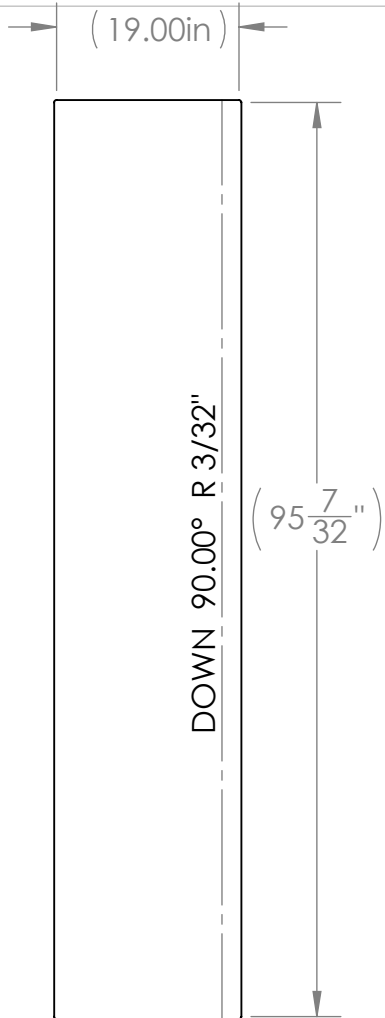
PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES		DRAWN	JCS	11/28/2012	
		TOLERANCES:		CHECKED			TITLE:
		FRACTIONAL $\pm 1/16$		ENG APPR.			
		ANGULAR: MACH ± 0.5 BEND ± 2		MFG APPR.			
		ONE PLACE DECIMAL $\pm .1$		Q.A.			
		TWO PLACE DECIMAL $\pm .06$		COMMENTS:			
		THREE PLACE DECIMAL ± 0.030					
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					
		MATERIAL					
NEXT ASSY	USED ON	FINISH					SIZE DWG. NO. REV
APPLICATION		DO NOT SCALE DRAWING					A Channel_8x20_10ft 01
							SCALE: 1:20 WEIGHT: SHEET 2 OF 5



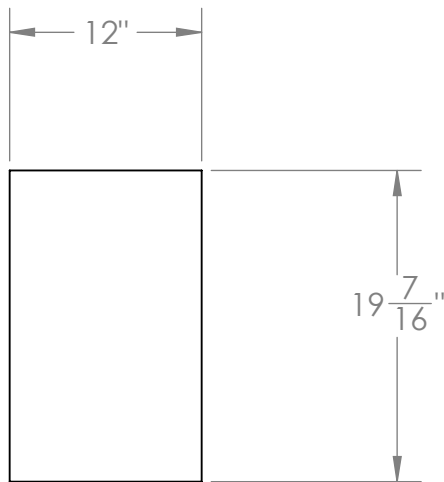
PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES		DRAWN	JCS	11/28/2012	3/16"
		TOLERANCES:		CHECKED			TITLE: C-CHANNEL, 10FT
		FRACTIONAL ± 1/16		ENG APPR.			
		ANGULAR: MACH ± 0.5 BEND ± 2		MFG APPR.			
		ONE PLACE DECIMAL ± .1		Q.A.			
		TWO PLACE DECIMAL ± .06		COMMENTS:			
		THREE PLACE DECIMAL ± 0.030					
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					
		MATERIAL					
		5052-H32					
NEXT ASSY		USED ON					
APPLICATION		DO NOT SCALE DRAWING					
				SIZE	DWG. NO.	REV	
				A	C-Channel_8x20_10ft	01	
				SCALE: 1:24		WEIGHT:	SHEET 3 OF 5



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

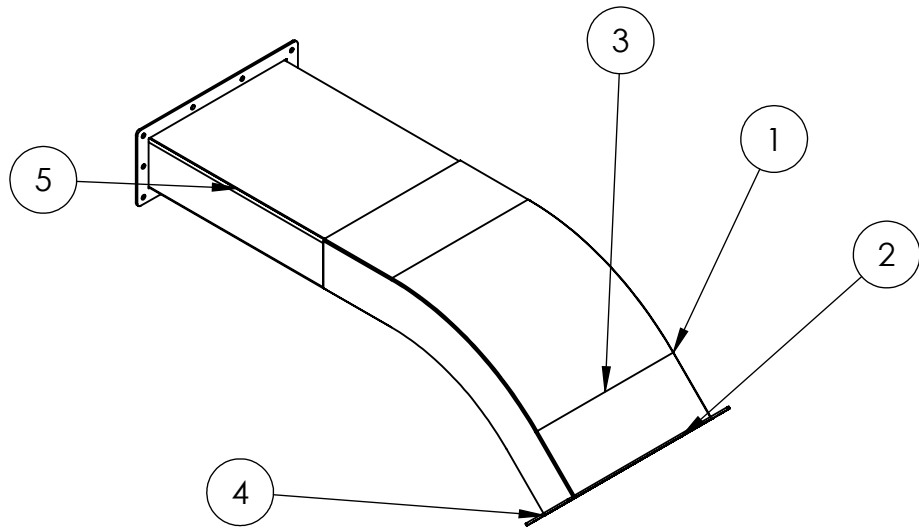
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:		
		DIMENSIONS ARE IN INCHES		DRAWN	JCS	11/28/2012	1/8"	
		TOLERANCES:		CHECKED			TITLE: CHANNEL LID, 10FT	
		FRACTIONAL ± 1/16		ENG APPR.				
		ANGULAR: MACH ±0.5 BEND ±2		MFG APPR.				
		ONE PLACE DECIMAL ±.1		Q.A.			SIZE DWG. NO. REV A Channel_lid 10ft 01	
		TWO PLACE DECIMAL ±.06		COMMENTS:				
		THREE PLACE DECIMAL ±0.030					SCALE: 1:20 WEIGHT:	SHEET 4 OF 5
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100						
		MATERIAL						
		5052-H32						
NEXT ASSY		USED ON						
APPLICATION		DO NOT SCALE DRAWING						



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:		
		DIMENSIONS ARE IN INCHES	DRAWN	JCS	11/28/2012	3/16"	
		TOLERANCES:	CHECKED			TITLE:	
		FRACTIONAL ± 1/16	ENG APPR.			LID, SPACER	
		ANGULAR: MACH ±0.5 BEND ±2	MFG APPR.				
		ONE PLACE DECIMAL ±.1	Q.A.				
		TWO PLACE DECIMAL ±.06	COMMENTS:				
		THREE PLACE DECIMAL ±0.030					
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100			SIZE	DWG. NO.	REV
		MATERIAL			A	Channel_20x12_Lid 12in	01
NEXT ASSY	USED ON	FINISH			SCALE: 1:12	WEIGHT:	SHEET 5 OF 5
APPLICATION		DO NOT SCALE DRAWING					

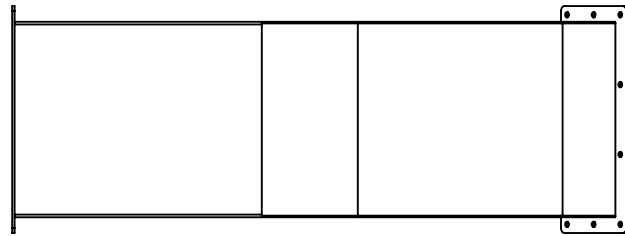
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Tran_arc_sidewall_02	TRANSITION ARC	2
2	Tran_arc_1_02	TRANSITION ARC LID 1	1
3	Tran_arc_lid_02	TRANSITION ARC LID 2	1
4	Flange_005	Flange, 21"x8"	2
5	Channel_8x20_26in	26" Channel	1



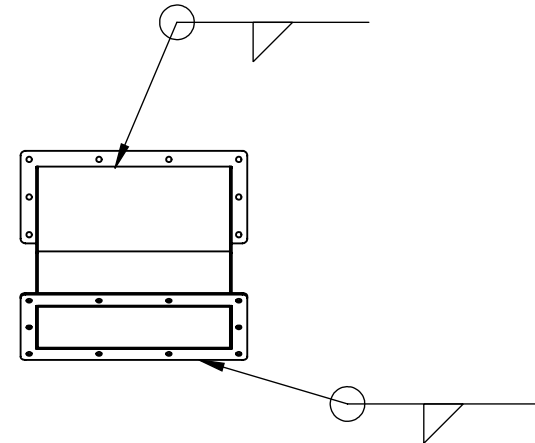
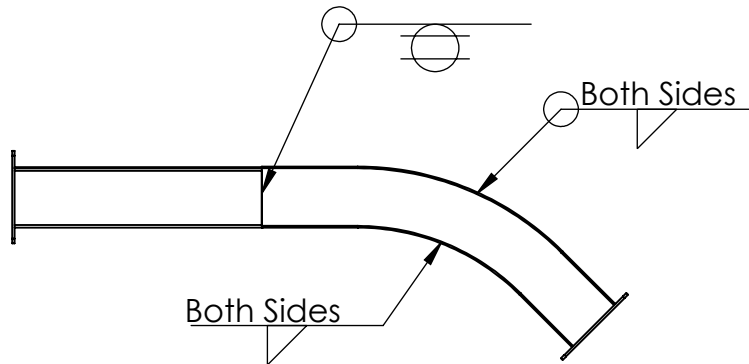
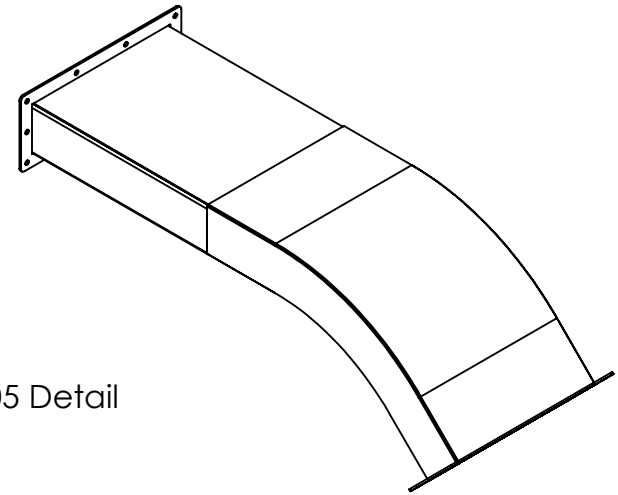
PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	JCS
		TOLERANCES:	CHECKED	11/18/2012
		FRACTIONAL $\pm 1/16$	ENG APPR.	
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.	
		ONE PLACE DECIMAL $\pm .1$	Q.A.	
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:	
		THREE PLACE DECIMAL ± 0.030		
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100		
		MATERIAL		
NEXT ASSY	USED ON	FINISH		
APPLICATION		DO NOT SCALE DRAWING		

STOCK SIZE:		
TITLE: Transition		
SIZE A	DWG. NO. RB Tran	REV 01
SCALE: 1:20	WEIGHT:	SHEET 1 OF 7

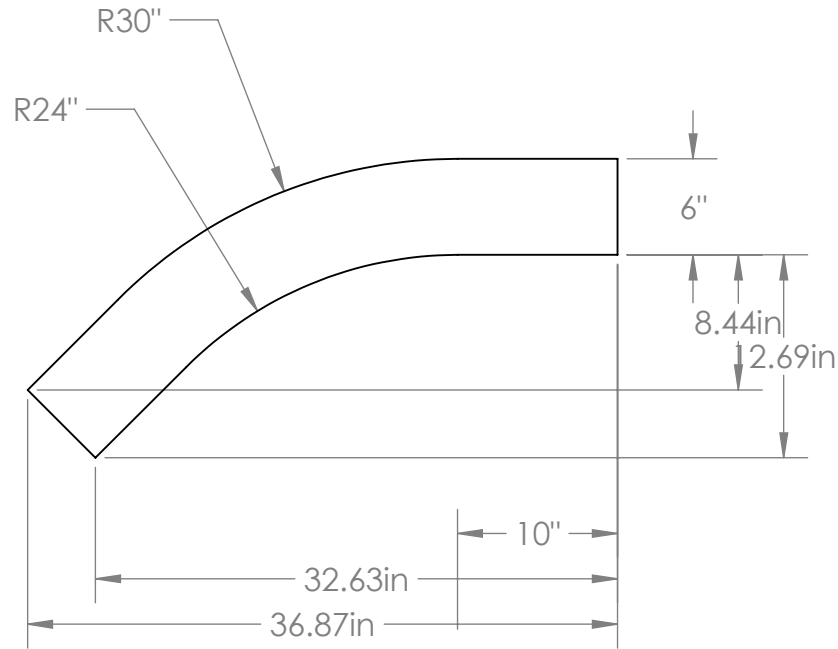


See Flange_005 Detail



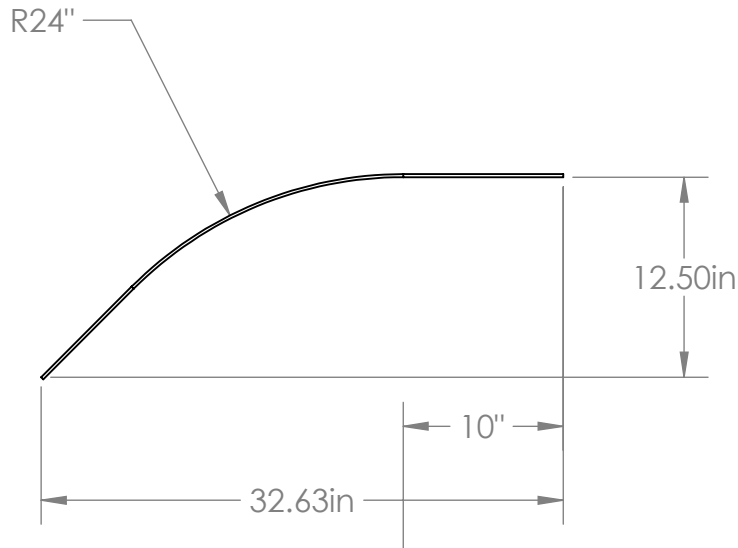
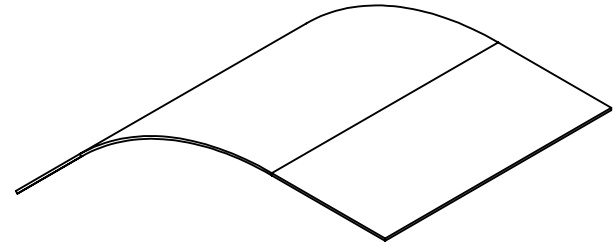
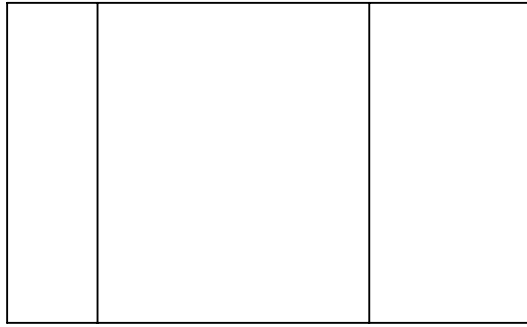
PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:
		DIMENSIONS ARE IN INCHES	DRAWN	JCS	11/18/2012
		TOLERANCES:	CHECKED		TITLE:
		FRACTIONAL $\pm 1/16$	ENG APPR.		Transition
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.		
		ONE PLACE DECIMAL $\pm .1$	Q.A.		
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:		
		THREE PLACE DECIMAL ± 0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100			SIZE DWG. NO. REV
		MATERIAL			A RB Tran 01
NEXT ASSY	USED ON	FINISH			SCALE: 1:20 WEIGHT: SHEET 2 OF 7
APPLICATION		DO NOT SCALE DRAWING			



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

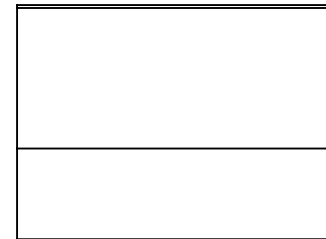
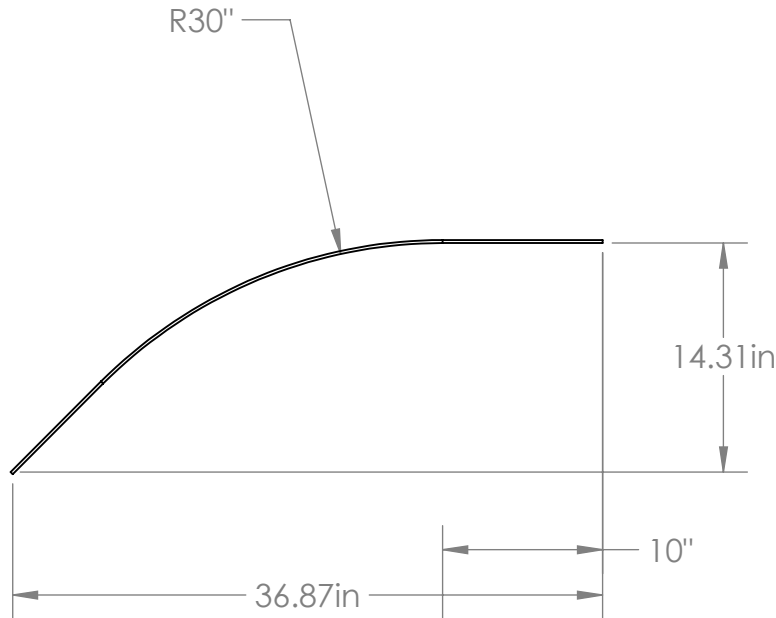
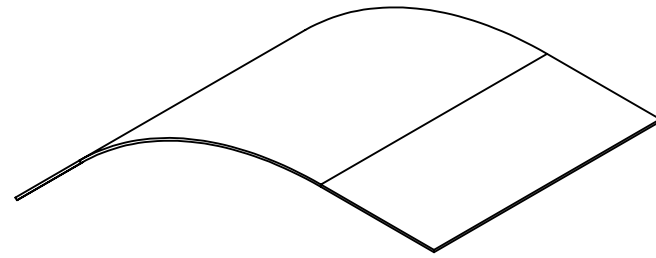
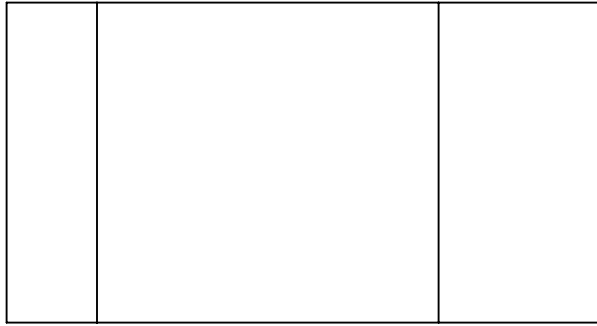
		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:
		DIMENSIONS ARE IN INCHES	DRAWN	JCS	11/18/2012
		TOLERANCES:	CHECKED		
		FRACTIONAL $\pm 1/16$	ENG APPR.		
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.		
		ONE PLACE DECIMAL $\pm .1$	Q.A.		
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:		
		THREE PLACE DECIMAL ± 0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100			
		MATERIAL			
		5052-H32			
NEXT ASSY	USED ON	FINISH			SIZE DWG. NO. REV
					A Tran_arc_sidewall_02 01
APPLICATION		DO NOT SCALE DRAWING			SCALE: 1:12 WEIGHT: SHEET 3 OF 7



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	JCS
		TOLERANCES:	CHECKED	11/18/2012
		FRACTIONAL $\pm 1/16$	ENG APPR.	
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.	
		ONE PLACE DECIMAL $\pm .1$	Q.A.	
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:	
		THREE PLACE DECIMAL ± 0.030		
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100		
		MATERIAL		
		5052-H32		
NEXT ASSY	USED ON	FINISH		
APPLICATION		DO NOT SCALE DRAWING		

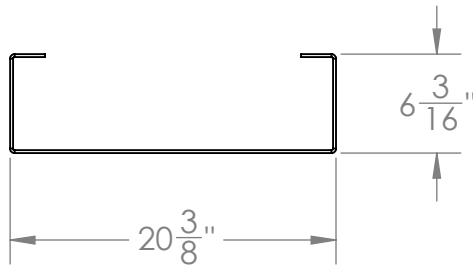
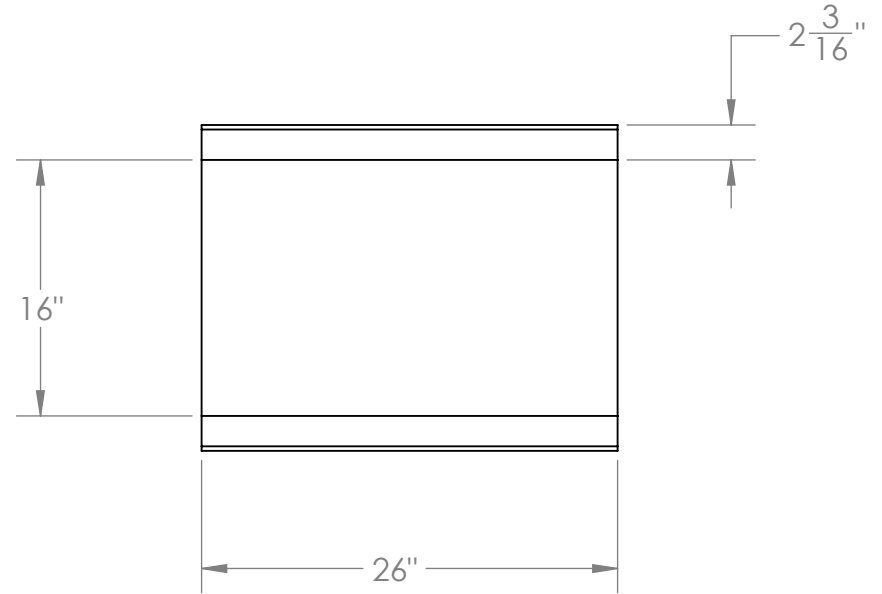
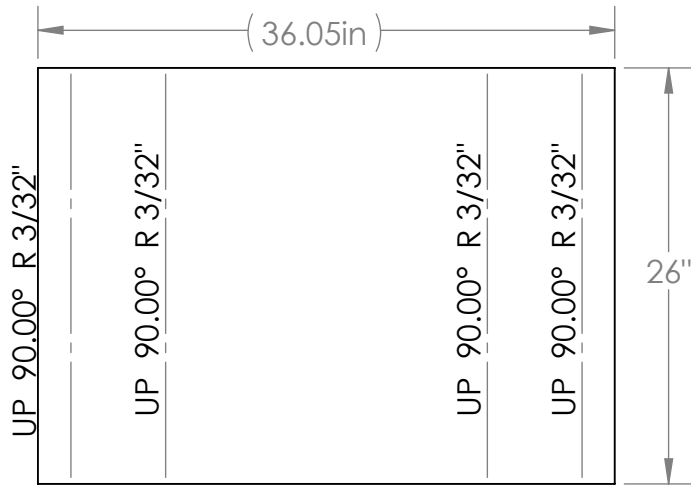
STOCK SIZE: 3/16"		
TITLE: TRANSITION ARC LID 1		
SIZE	DWG. NO.	REV
A	Tran_arc_1_02	01
SCALE: 1:12	WEIGHT:	SHEET 4 OF 7



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	JCS
		TOLERANCES:	CHECKED	11/18/2012
		FRACTIONAL ± 1/16	ENG APPR.	
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.	
		ONE PLACE DECIMAL ± .1	Q.A.	
		TWO PLACE DECIMAL ± .06	COMMENTS:	
		THREE PLACE DECIMAL ± 0.030		
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100		
		MATERIAL		
		5052-H32		
NEXT ASSY	USED ON	FINISH		
		APPLICATION		
		DO NOT SCALE DRAWING		

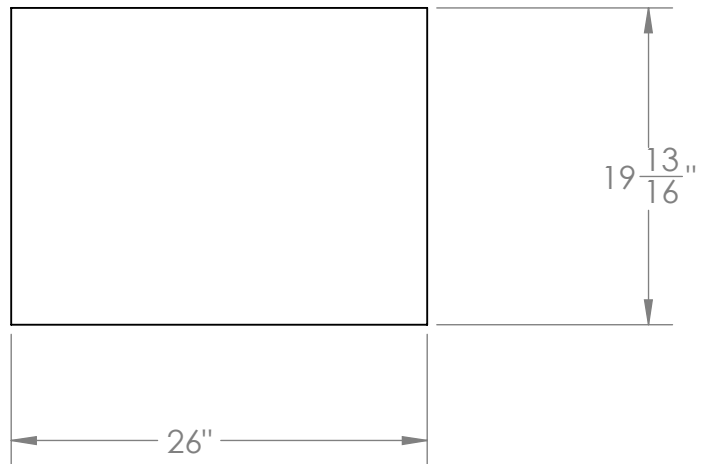
STOCK SIZE: 3/16"		
TITLE: TRANSITION ARC LID 2		
SIZE	DWG. NO.	REV
A	Tran_arc_lid_02	01
SCALE: 1:12	WEIGHT:	SHEET 5 OF 7



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	JCS
		TOLERANCES:	CHECKED	11/18/2012
		FRACTIONAL $\pm 1/16$	ENG APPR.	
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.	
		ONE PLACE DECIMAL $\pm .1$	Q.A.	
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:	
		THREE PLACE DECIMAL ± 0.030		
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100		
		MATERIAL		
		5052-H32		
		FINISH		
NEXT ASSY	USED ON			
APPLICATION		DO NOT SCALE DRAWING		

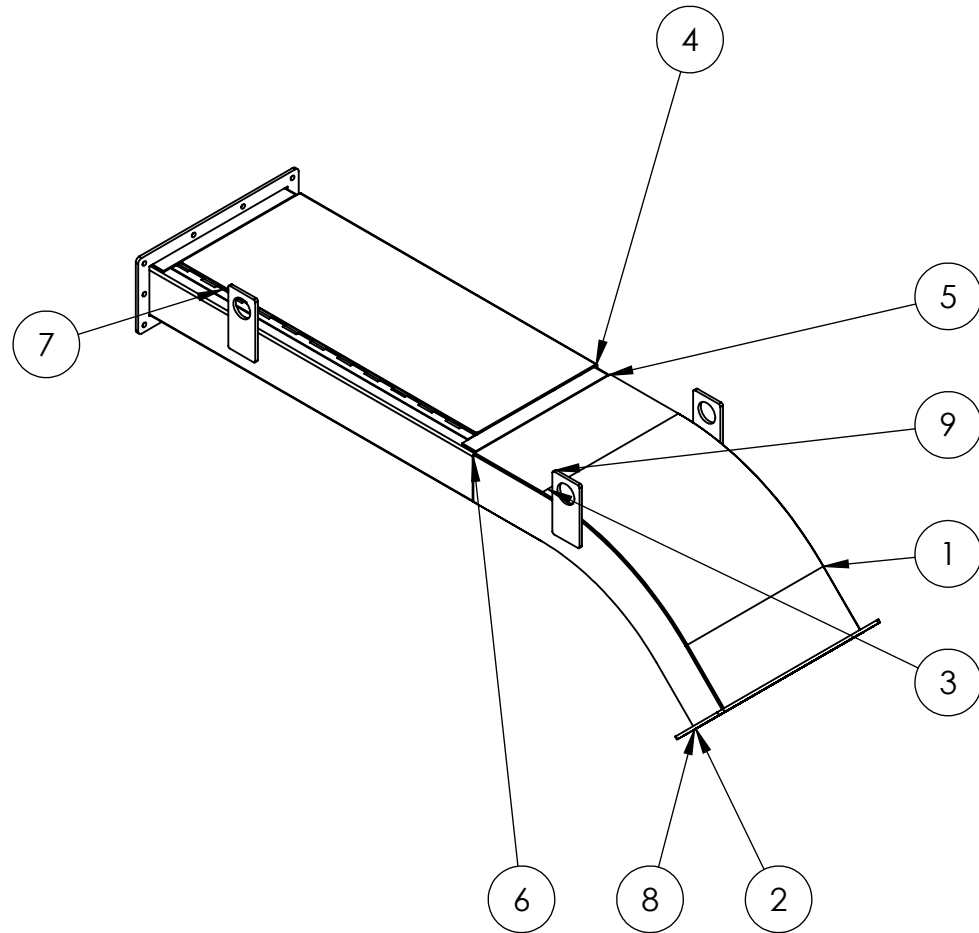
STOCK SIZE:			3/16"
TITLE:			
C-CHANNEL, 26"			
SIZE	DWG. NO.	REV	
A	C-Channel_8x20_26in	01	
SCALE: 1:12	WEIGHT:	SHEET 6 OF 7	



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

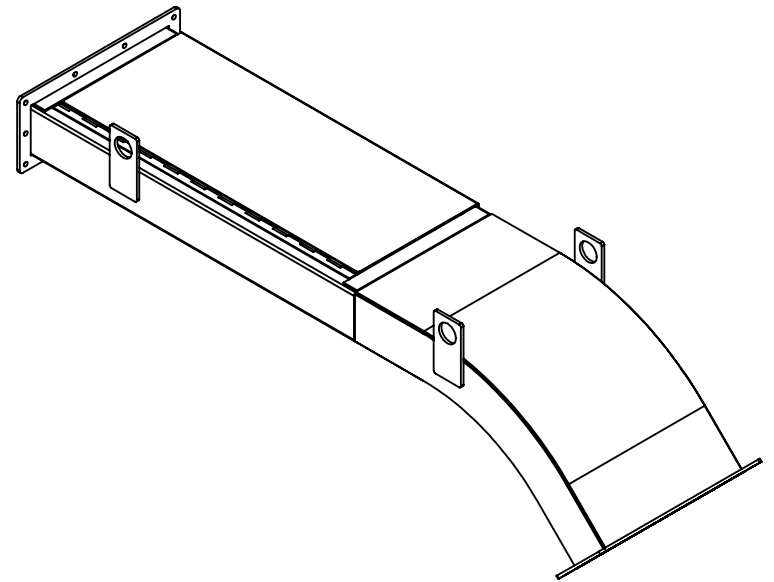
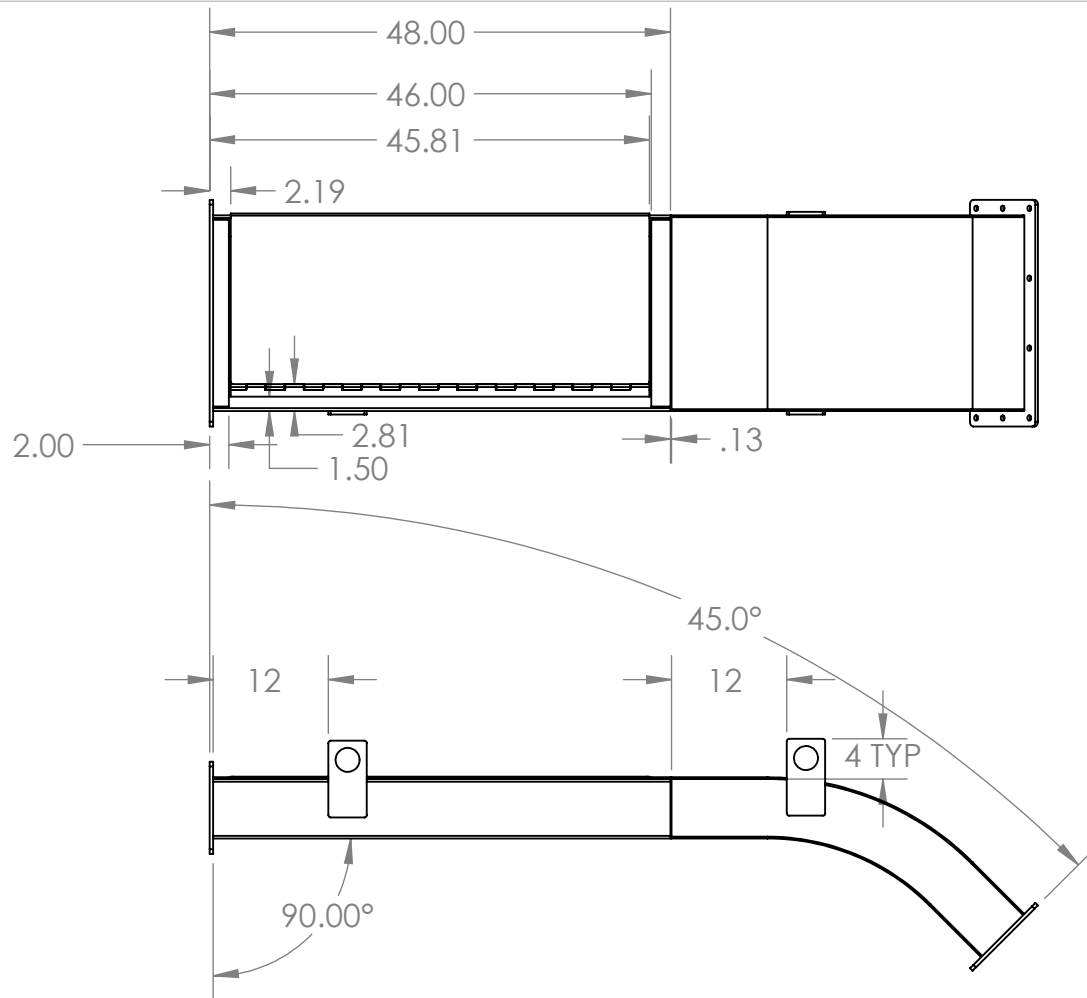
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES		DRAWN	JCS	11/18/2012	1/8"
		TOLERANCES:		CHECKED			TITLE: CHANNEL LID, 26"
		FRACTIONAL ± 1/16		ENG APPR.			
		ANGULAR: MACH ±0.5 BEND ±2		MFG APPR.			
		ONE PLACE DECIMAL ±.1		Q.A.			
		TWO PLACE DECIMAL ±.06		COMMENTS:			
		THREE PLACE DECIMAL ±0.030					
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					SIZE DWG. NO. REV
		MATERIAL					A Channel_lid 26in 01
		5052-H32					
		FINISH					
NEXT ASSY	USED ON						
APPLICATION		DO NOT SCALE DRAWING					SCALE: 1:12 WEIGHT: SHEET 7 OF 7

ITEM NO.	PART NUMBER	QTY.
1	Tran_arc_sidewall_02	2
2	Tran_arc_1_02	1
3	Tran_arc_lid_02	1
4	Channel_lid 4FT	1
5	Channel_20x12_Lid 2in	2
6	C-Channel_10"x8"x20"	1
7	CA12520096_48in_cut	1
8	Flange_005	2
9	Lift_Plate	3



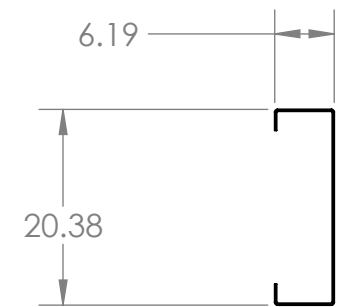
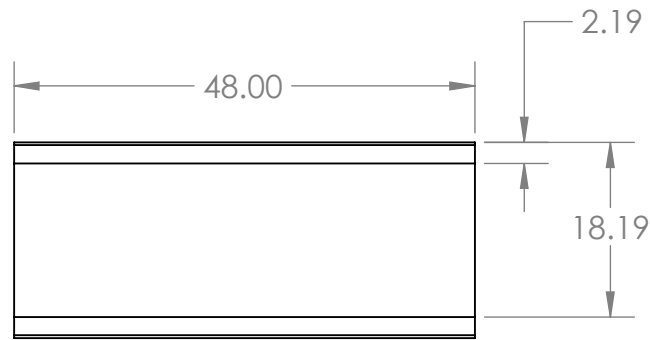
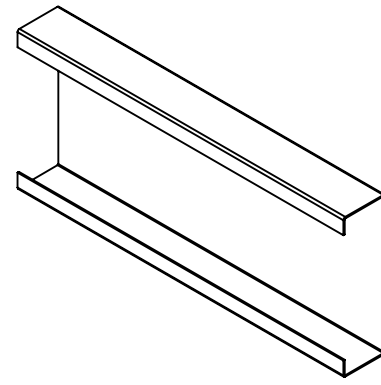
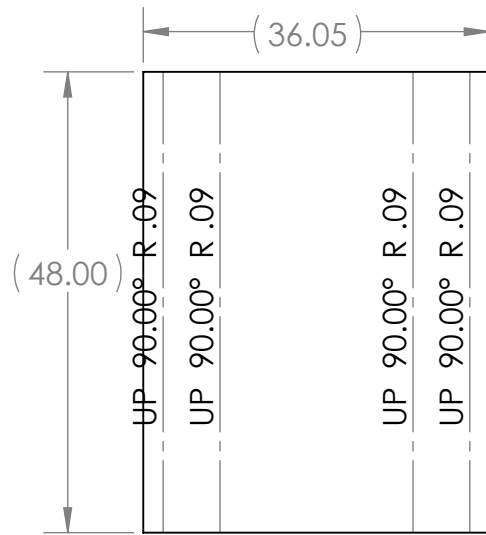
PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012	
		TOLERANCES:		CHECKED			TITLE:
		FRACTIONAL ± 1/16		ENG APPR.			
		ANGULAR: MACH ±0.5 BEND ±2		MFG APPR.			
		ONE PLACE DECIMAL ±.1		Q.A.			
		TWO PLACE DECIMAL ±.06		COMMENTS:			
		THREE PLACE DECIMAL ±0.030					
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					
		MATERIAL					
NEXT ASSY	USED ON	FINISH				SIZE	DWG. NO.
APPLICATION		DO NOT SCALE DRAWING				A	Transition2
							REV
							01
						SCALE: 1:20	WEIGHT:
							SHEET 1 OF 8



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

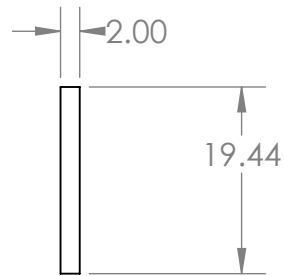
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012	
		TOLERANCES:		CHECKED			TITLE:
		FRACTIONAL $\pm 1/16$		ENG APPR.			
		ANGULAR: MACH ± 0.5 BEND ± 2		MFG APPR.			
		ONE PLACE DECIMAL $\pm .1$		Q.A.			
		TWO PLACE DECIMAL $\pm .06$		COMMENTS:			
		THREE PLACE DECIMAL ± 0.030					
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					SIZE DWG. NO. REV
		MATERIAL					A Transition2 01
NEXT ASSY	USED ON	FINISH					SCALE: 1:20 WEIGHT: SHEET 2 OF 8
APPLICATION		DO NOT SCALE DRAWING					



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

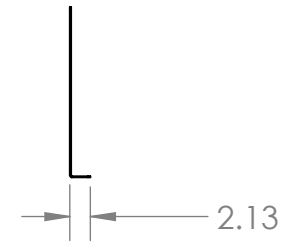
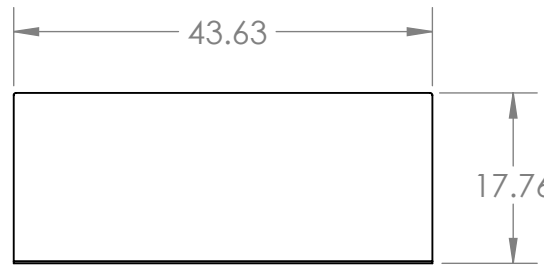
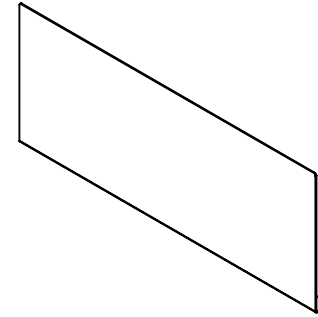
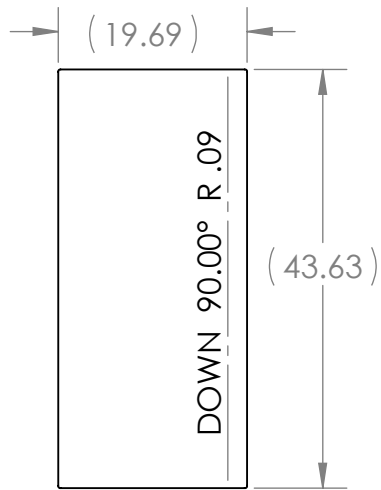
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012
		TOLERANCES:	CHECKED		
		FRACTIONAL ± 1/16	ENG APPR.		
		ANGULAR: MACH ±0.5 BEND ±2	MFG APPR.		
		ONE PLACE DECIMAL ±.1			
		TWO PLACE DECIMAL ±.06			
		THREE PLACE DECIMAL ±0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100	Q.A.		
		MATERIAL	COMMENTS:		
		5052-H32			
		FINISH			
NEXT ASSY	USED ON				
APPLICATION		DO NOT SCALE DRAWING			

STOCK SIZE:			0.1875
TITLE:			
C-CHANNEL, 4FT			
SIZE	DWG. NO.	REV	
A	C-Channel_8x20_4ft	01	
SCALE: 1:20	WEIGHT:	SHEET 3 OF 8	



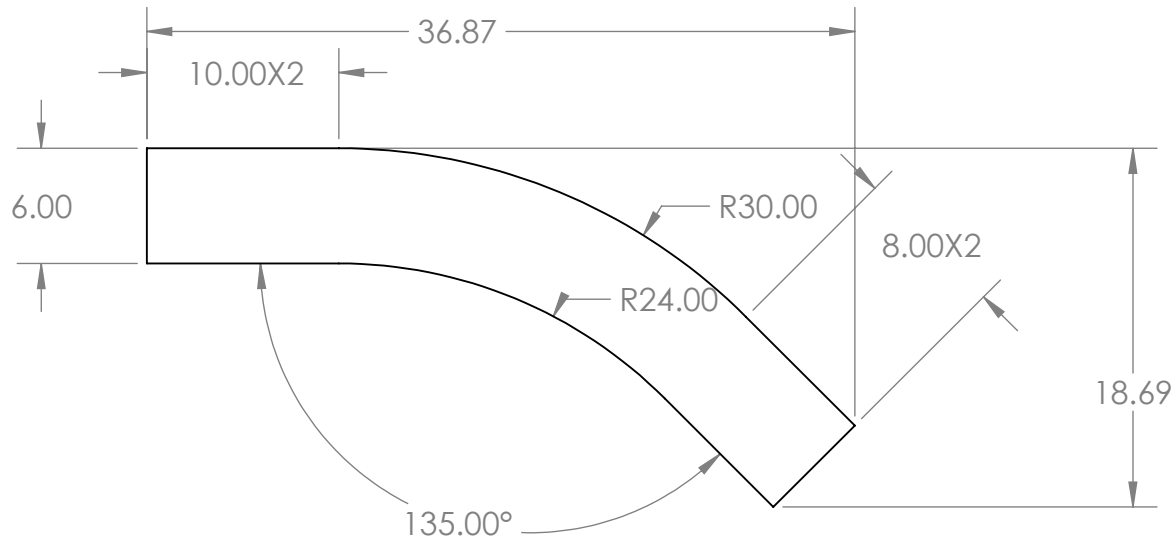
PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	0.1875		
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012	TITLE:		
		TOLERANCES:		CHECKED			CHANNEL LID, SPACER, 2IN		
		FRACTIONAL ± 1/16		ENG APPR.					
		ANGULAR: MACH ±0.5 BEND ±2		MFG APPR.					
		ONE PLACE DECIMAL ±.1		Q.A.					
		TWO PLACE DECIMAL ±.06		COMMENTS:					
		THREE PLACE DECIMAL ±0.030					SIZE	DWG. NO.	REV
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					A	Channel_20x12_Lid 2in	01
		MATERIAL					SCALE: 1:20	WEIGHT:	SHEET 4 OF 8
		5052-H32							
		FINISH							
	NEXT ASSY	USED ON							
	APPLICATION								
			DO NOT SCALE DRAWING						



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

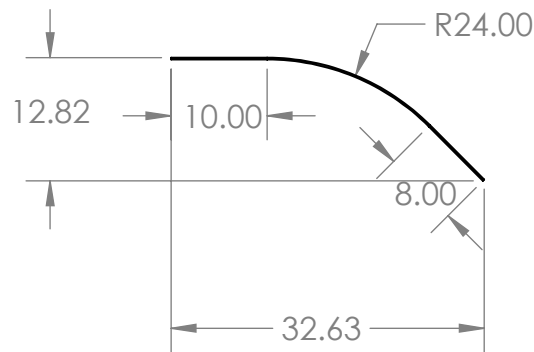
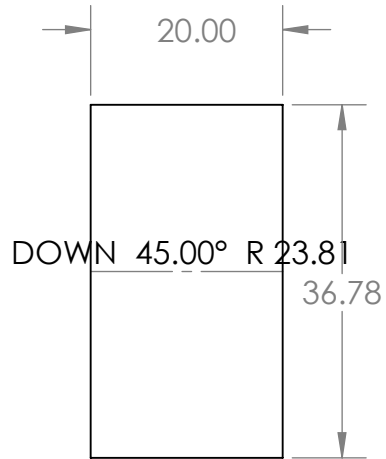
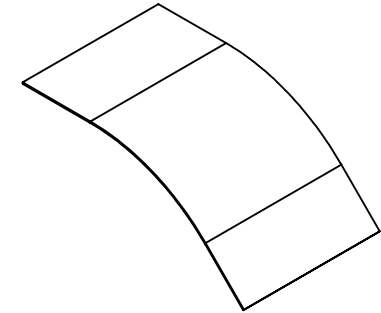
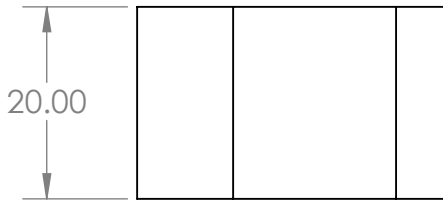
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012	0.125
		TOLERANCES:		CHECKED			TITLE: CHANNEL LID, 4FT
		FRACTIONAL ± 1/16		ENG APPR.			
		ANGULAR: MACH ±0.5 BEND ±2		MFG APPR.			
		ONE PLACE DECIMAL ±.1		Q.A.			SIZE DWG. NO. REV A Channel_lid 4FT 01
		TWO PLACE DECIMAL ±.06		COMMENTS:			
		THREE PLACE DECIMAL ±0.030					SCALE: 1:20 WEIGHT: SHEET 5 OF 8
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					
		MATERIAL					
		5052-H32					
NEXT ASSY		USED ON					
APPLICATION		DO NOT SCALE DRAWING					



PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

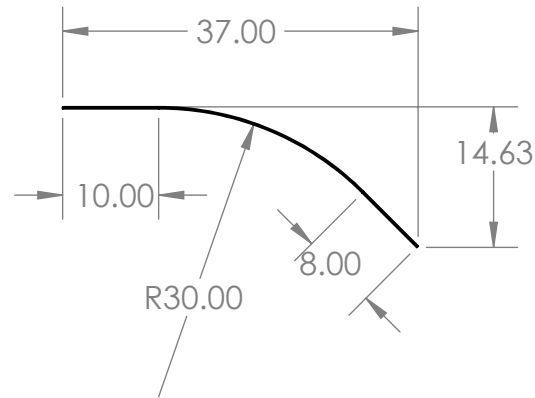
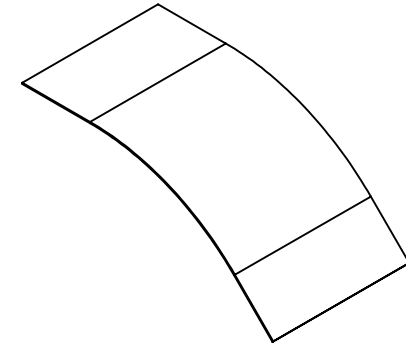
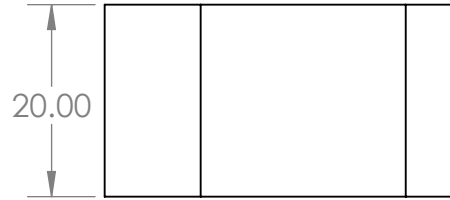
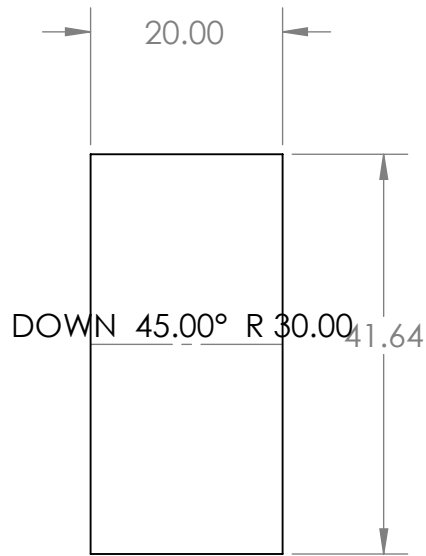
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:		
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012	0.1875	
		TOLERANCES:		CHECKED			TITLE:	
		FRACTIONAL ± 1/16		ENG APPR.				TRANSITION ARC
		ANGULAR: MACH ±0.5 BEND ±2		MFG APPR.				
		ONE PLACE DECIMAL ±.1		Q.A.			SIZE DWG. NO. REV	
		TWO PLACE DECIMAL ±.06		COMMENTS:				A Tran_arc_sidewall_02 01
		THREE PLACE DECIMAL ±0.030						
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100						
		MATERIAL						
		5052-H32						
NEXT ASSY		USED ON						
APPLICATION		DO NOT SCALE DRAWING						



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012
		TOLERANCES:	CHECKED		
		FRACTIONAL $\pm 1/16$	ENG APPR.		
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.		
		ONE PLACE DECIMAL $\pm .1$	Q.A.		
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:		
		THREE PLACE DECIMAL ± 0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100			
		MATERIAL			
		5052-H32			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

TITLE:		
TRANSITION ARC LID		
SIZE	DWG. NO.	REV
A	Tran_arc_1_02	01
SCALE: 1:20	WEIGHT:	SHEET 7 OF 8

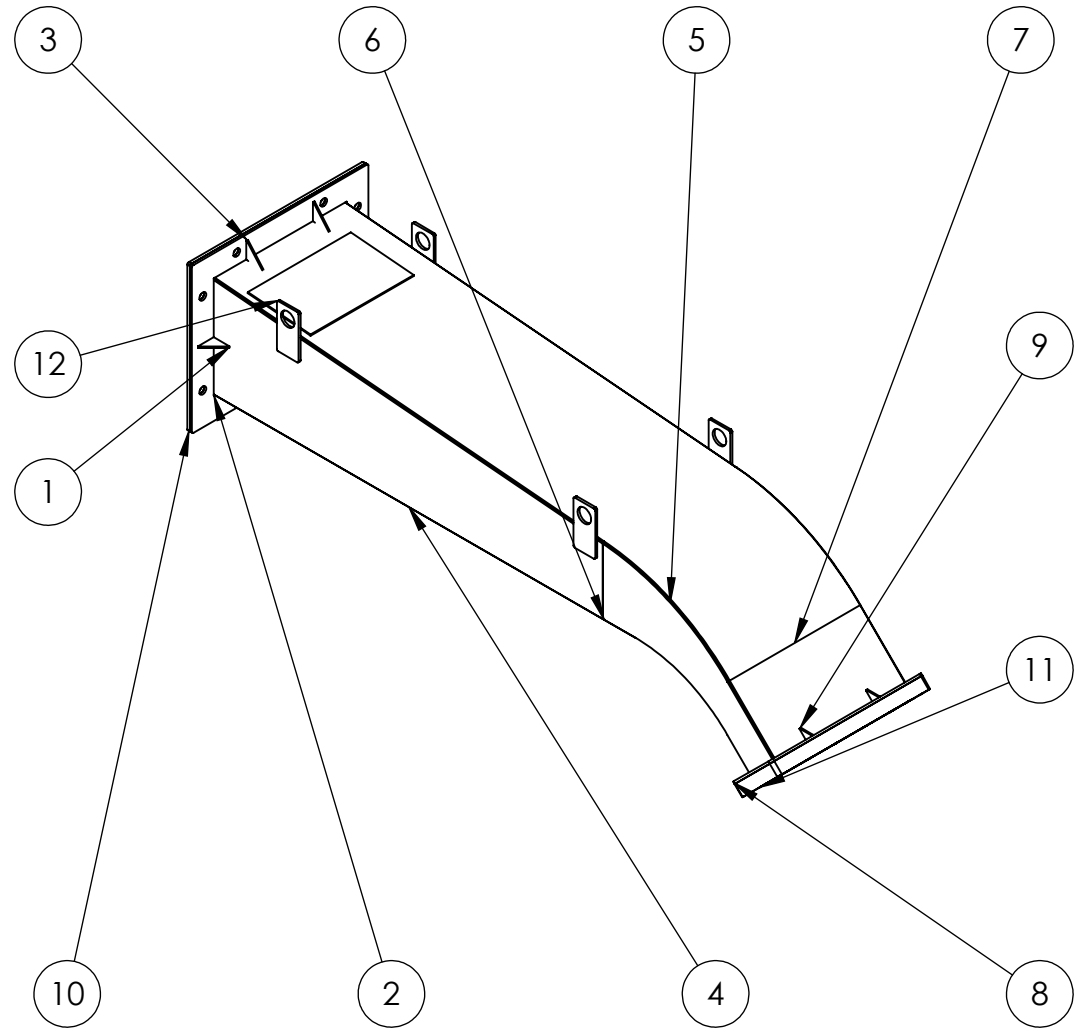


PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ
		TOLERANCES:	CHECKED	11/28/2012
		FRACTIONAL ± 1/16	ENG APPR.	
		ANGULAR: MACH ±0.5 BEND ±2	MFG APPR.	
		ONE PLACE DECIMAL ±.1	Q.A.	
		TWO PLACE DECIMAL ±.06	COMMENTS:	
		THREE PLACE DECIMAL ±0.030		
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100		
		MATERIAL		
		5052-H32		
NEXT ASSY	USED ON	FINISH		
APPLICATION		DO NOT SCALE DRAWING		

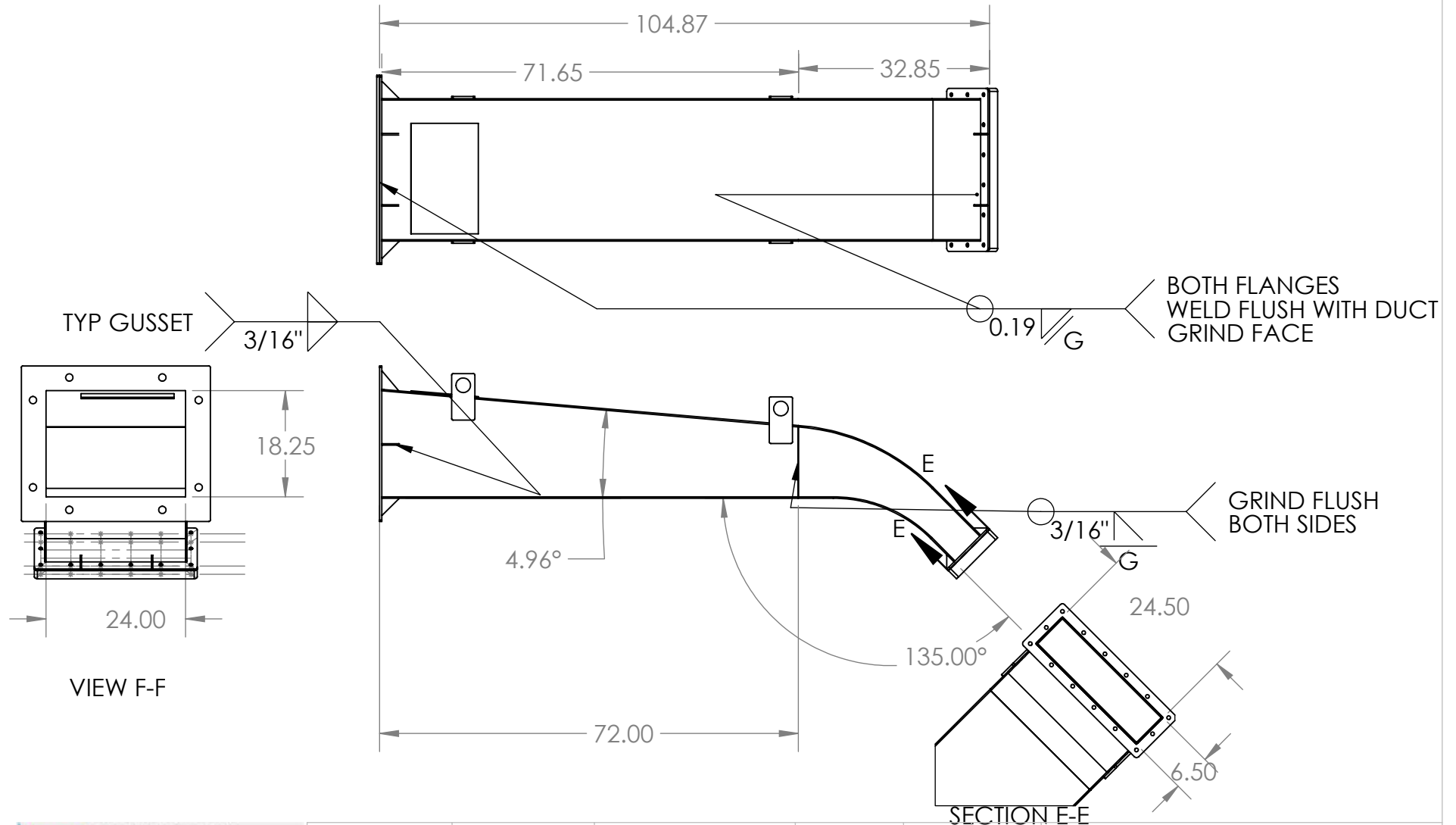
STOCK SIZE:			0.1875
TITLE:			
TRANSITION ARC, LID			
SIZE	DWG. NO.	REV	
A	Tran_arc_lid_02	01	
SCALE: 1:20	WEIGHT:	SHEET 8 OF 8	

ITEM NO.	PART NUMBER	QTY.
1	Gusset_3 1-2x3 1-2in	4
2	Tran_Flange_18x24	1
3	Gusset_3x3in_angle	2
4	Tran_chan_6ft	1
5	Tran_arc_sidewall	2
6	Tran_arc_1	1
7	Tran_arc_lid	1
8	FLANGE24X6	1
9	Gusset_3x3in	4
10	Galvanic_002	1
11	PIT Antenna 24X6	1
12	Lift_Plate	4
13	Channel_lid-10in	1



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

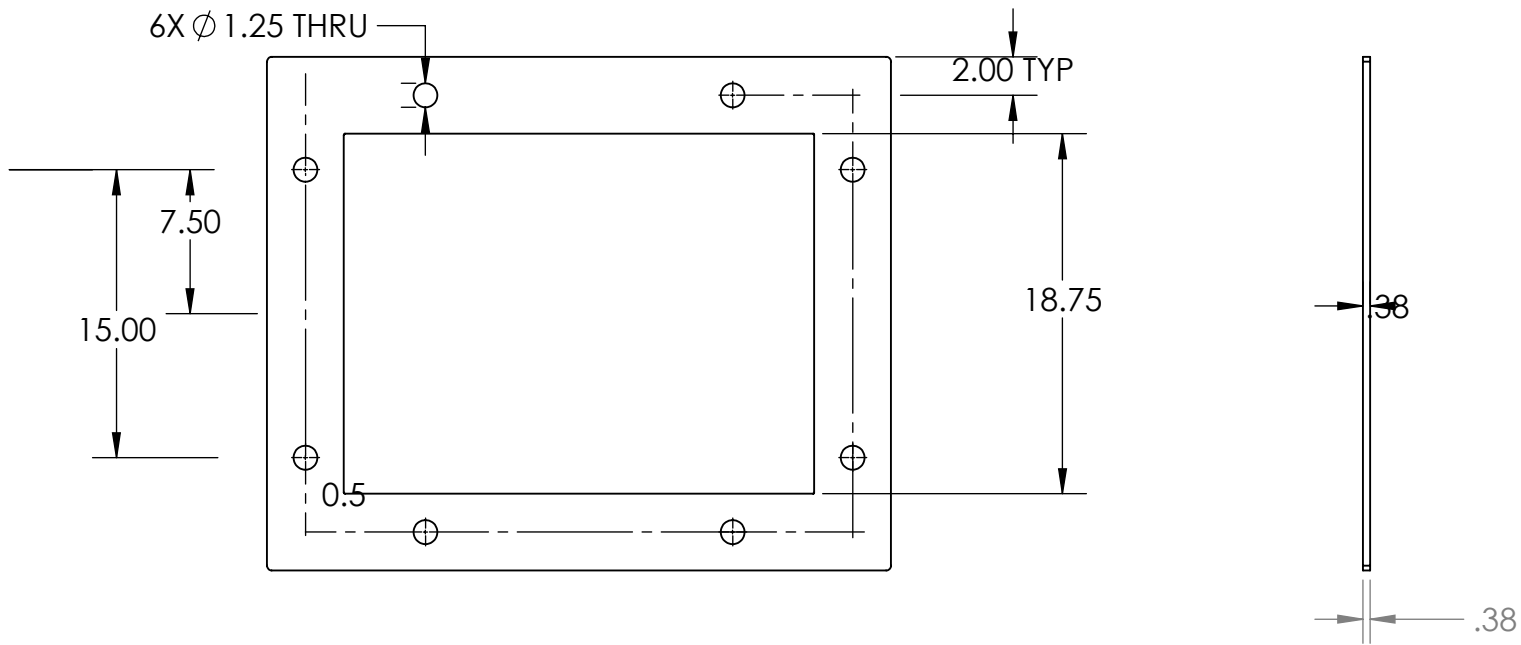
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012	
		TOLERANCES:		CHECKED			TITLE:
		FRACTIONAL ± 1/16		ENG APPR.			
		ANGULAR: MACH ± 0.5 BEND ± 2		MFG APPR.			
		ONE PLACE DECIMAL ± .1		Q.A.			
		TWO PLACE DECIMAL ± .06		COMMENTS:			
		THREE PLACE DECIMAL ± 0.030					
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					
		MATERIAL					
NEXT ASSY	USED ON	FINISH					SIZE DWG. NO. REV
		DO NOT SCALE DRAWING					A Transition 01
APPLICATION							SCALE: 1:25 WEIGHT: SHEET 1 OF 9



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

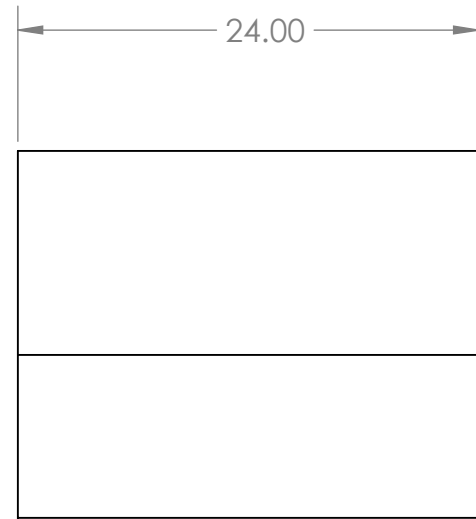
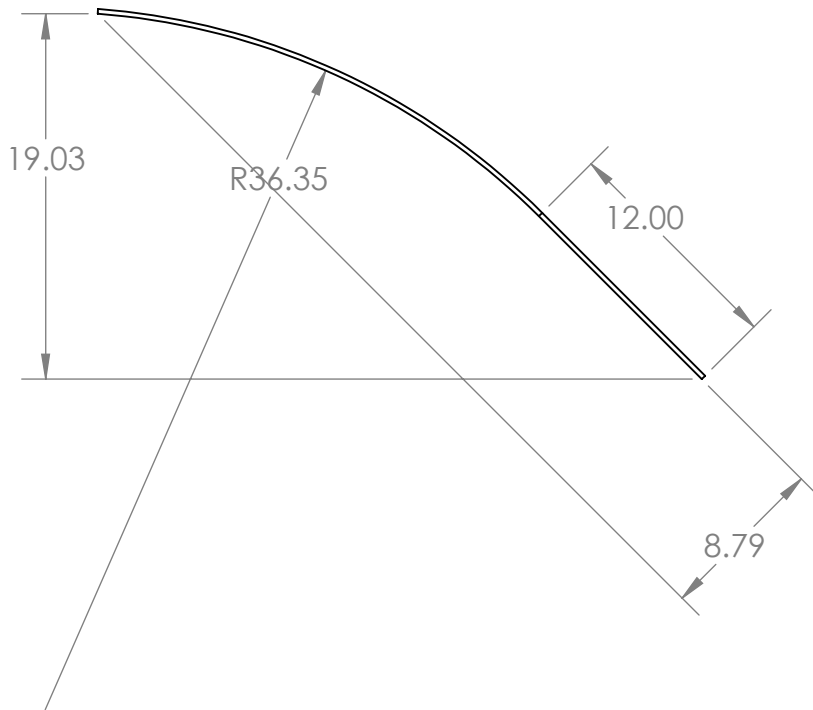
		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012
		TOLERANCES:	CHECKED		
		FRACTIONAL $\pm 1/16$	ENG APPR.		
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.		
		ONE PLACE DECIMAL $\pm .1$	Q.A.		
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:		
		THREE PLACE DECIMAL ± 0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100			
		MATERIAL			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

TITLE:		
TRANSITION WELD ASSEMBLY		
SIZE	DWG. NO.	REV
A	Transition	01
SCALE: 1:25	WEIGHT:	SHEET 2 OF 9



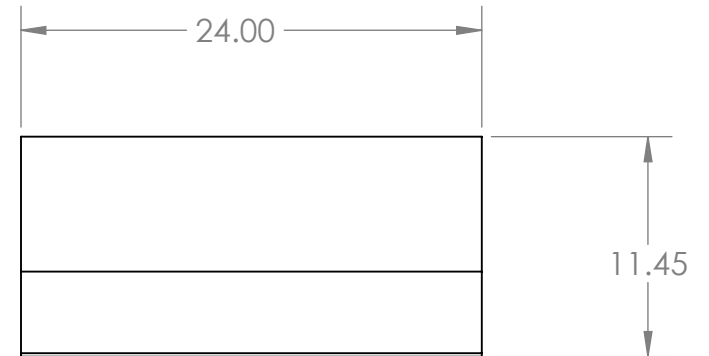
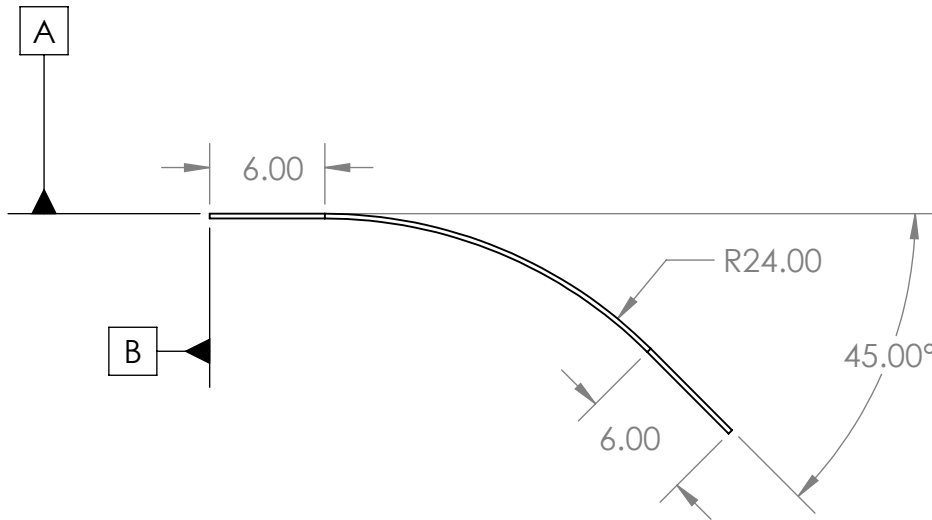
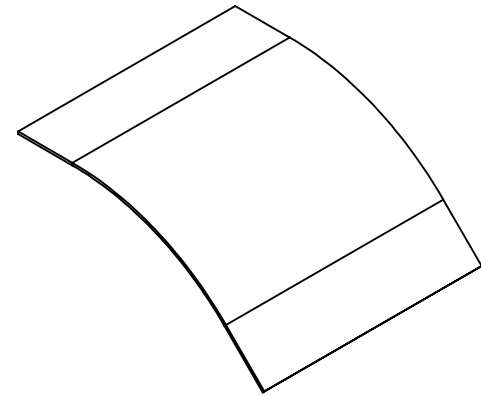
PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

			UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:		
			DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012	TITLE:		
			TOLERANCES:	CHECKED			TITLE:		
			FRACTIONAL ± 1/16	ENG APPR.			TITLE:		
			ANGULAR: MACH ±0.5 BEND ±2	MFG APPR.			TITLE:		
			ONE PLACE DECIMAL ±.1	Q.A.			SIZE	DWG. NO.	REV
			TWO PLACE DECIMAL ±.06	COMMENTS:			A	Tran_Flange_18x24	01
			THREE PLACE DECIMAL ±0.030				SCALE: 1:10	WEIGHT:	SHEET 3 OF 9
			INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100						
			MATERIAL						
			5052-H36						
			FINISH						
	NEXT ASSY	USED ON							
	APPLICATION		DO NOT SCALE DRAWING						



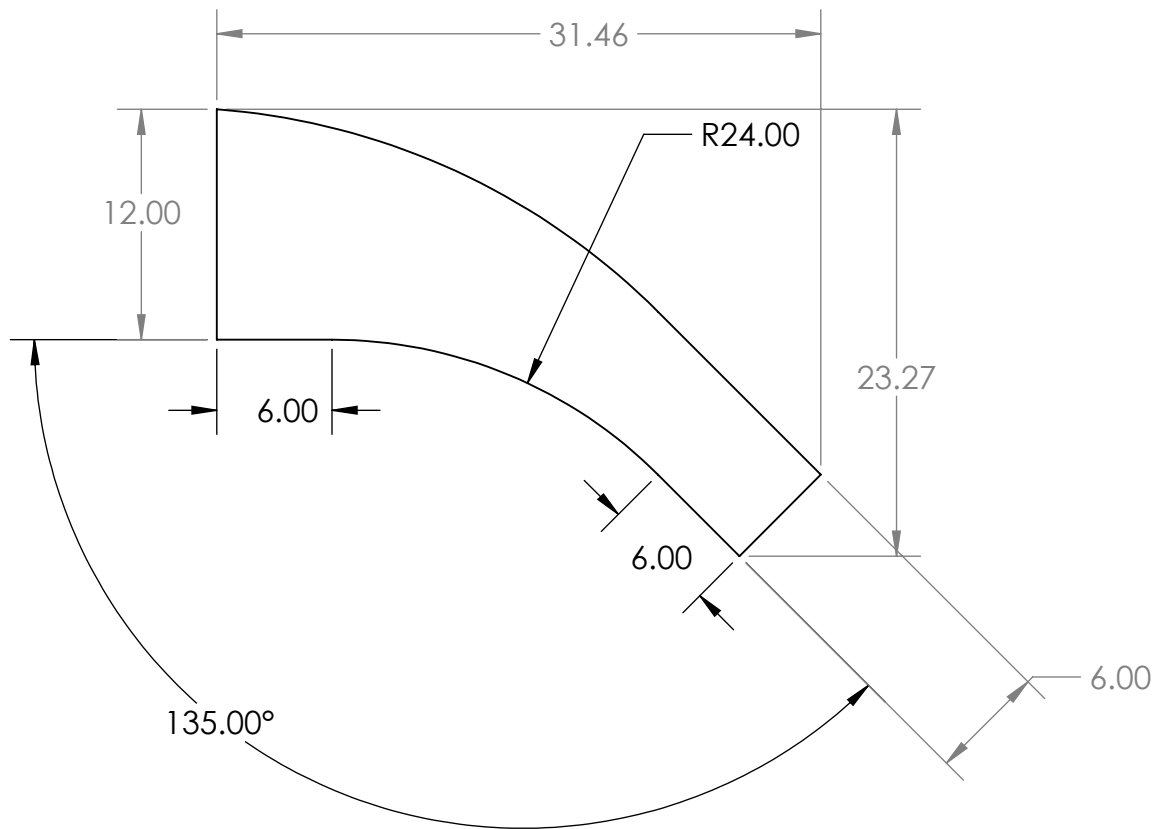
PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012	0.1875
		TOLERANCES:		CHECKED			TITLE:
		FRACTIONAL $\pm 1/16$		ENG APPR.			
		ANGULAR: MACH ± 0.5 BEND ± 2		MFG APPR.			
		ONE PLACE DECIMAL $\pm .1$		Q.A.			SIZE DWG. NO. REV
		TWO PLACE DECIMAL $\pm .06$		COMMENTS:			
		THREE PLACE DECIMAL ± 0.030					A Tran_arc_lid 01
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					SCALE: 1:10 WEIGHT: SHEET 4 OF 9
		MATERIAL					
		5052-H36					
NEXT ASSY		USED ON					
APPLICATION		DO NOT SCALE DRAWING					



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

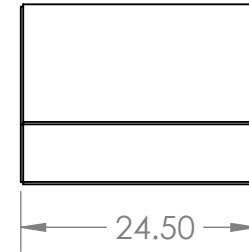
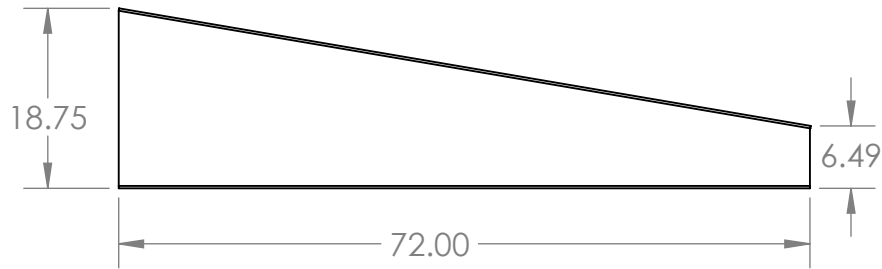
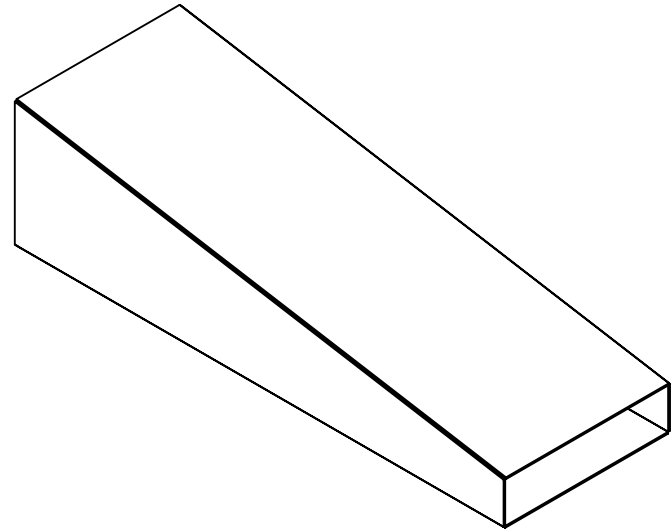
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012	0.19
		TOLERANCES:		CHECKED			TITLE:
		FRACTIONAL ± 1/16		ENG APPR.			
		ANGULAR: MACH ± 0.5 BEND ± 2		MFG APPR.			
		ONE PLACE DECIMAL ± .1		Q.A.			
		TWO PLACE DECIMAL ± .06		COMMENTS:			
		THREE PLACE DECIMAL ± 0.030					
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					
		MATERIAL					SIZE DWG. NO. REV
		5052-H36					A Tran_arc_1 01
NEXT ASSY	USED ON	FINISH					SCALE: 1:10 WEIGHT: SHEET 5 OF 9
APPLICATION		DO NOT SCALE DRAWING					



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

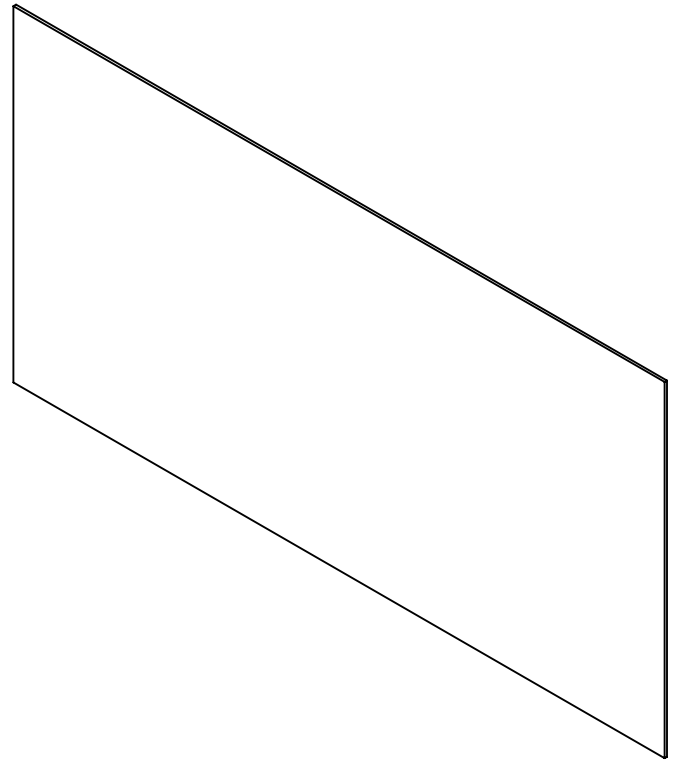
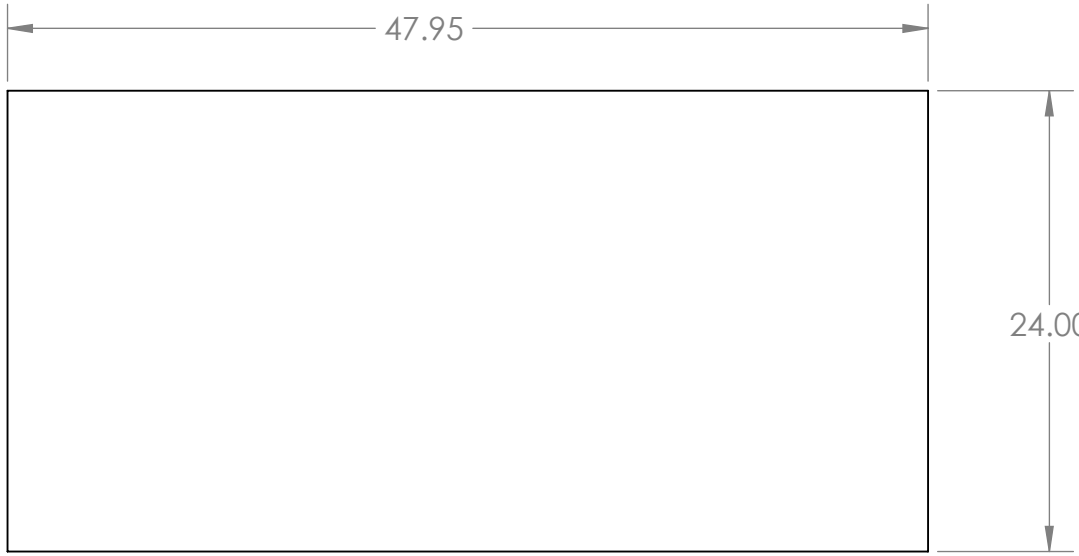
		UNLESS OTHERWISE SPECIFIED:	NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ
		TOLERANCES:	CHECKED	11/28/2012
		FRACTIONAL ± 1/16	ENG APPR.	
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.	
		ONE PLACE DECIMAL ± .1	Q.A.	
		TWO PLACE DECIMAL ± .06	COMMENTS:	
		THREE PLACE DECIMAL ± 0.030		
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100		
		MATERIAL		
		5052-H36		
NEXT ASSY	USED ON	FINISH		
APPLICATION		DO NOT SCALE DRAWING		

STOCK SIZE:		0.1875	
TITLE:			
SIZE	DWG. NO.	REV	
A	Tran_arc_sidewall	01	
SCALE: 1:10	WEIGHT:	SHEET 6 OF 9	



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

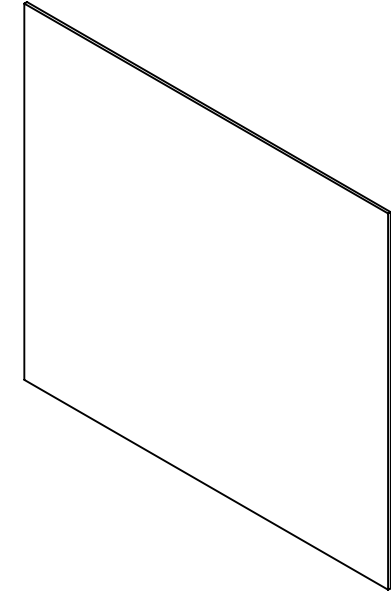
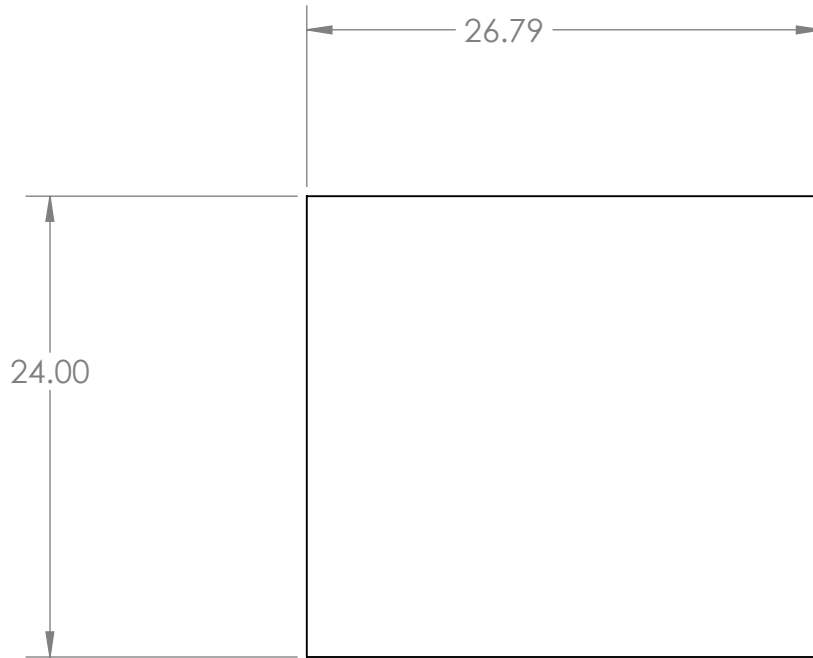
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:		
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012	0.1875	
		TOLERANCES:		CHECKED			TITLE:	
		FRACTIONAL ± 1/16		ENG APPR.				
		ANGULAR: MACH ± 0.5 BEND ± 2		MFG APPR.				
		ONE PLACE DECIMAL ± .1		Q.A.				
		TWO PLACE DECIMAL ± .06		COMMENTS:				
		THREE PLACE DECIMAL ± 0.030						
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100						
		MATERIAL						
		ASTM A36 Steel						
		FINISH						
NEXT ASSY	USED ON					SIZE	DWG. NO.	REV
						A	Tran_chan_4ft	01
APPLICATION		DO NOT SCALE DRAWING				SCALE: 1:20	WEIGHT:	SHEET 7 OF 9



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH ± 0.5 BEND ± 2 ONE PLACE DECIMAL $\pm .1$ TWO PLACE DECIMAL $\pm .06$ THREE PLACE DECIMAL ± 0.030 INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100 MATERIAL ASTM A36 Steel FINISH		NAME	DATE
			DRAWN	HRZ	11/28/2012
			CHECKED		
			ENG APPR.		
			MFG APPR.		
			Q.A.		
			COMMENTS:		
NEXT ASSY	USED ON				
APPLICATION		DO NOT SCALE DRAWING			

STOCK SIZE:		0.1875	
TITLE:			
SIZE	DWG. NO.	REV	
A	Tran_chan_lid	01	
SCALE: 1:10	WEIGHT:	SHEET 8 OF 9	

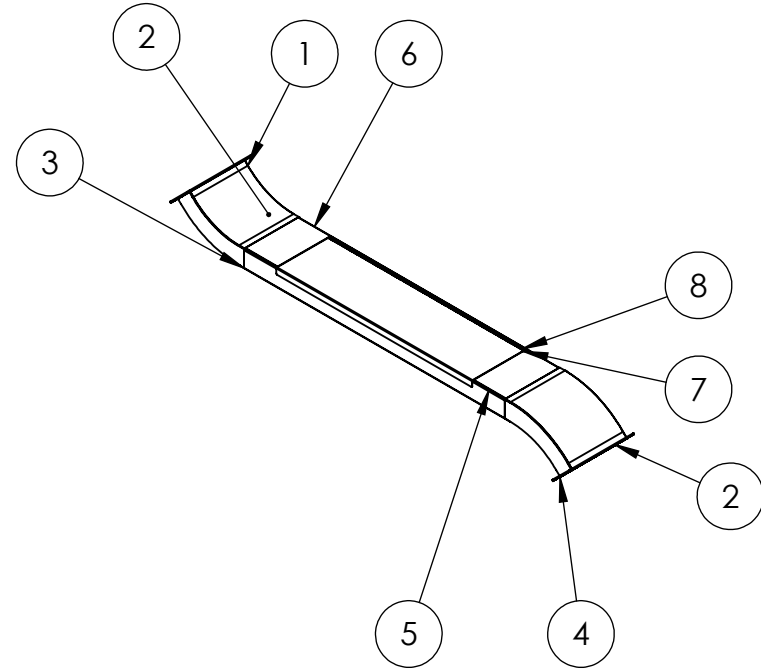


PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

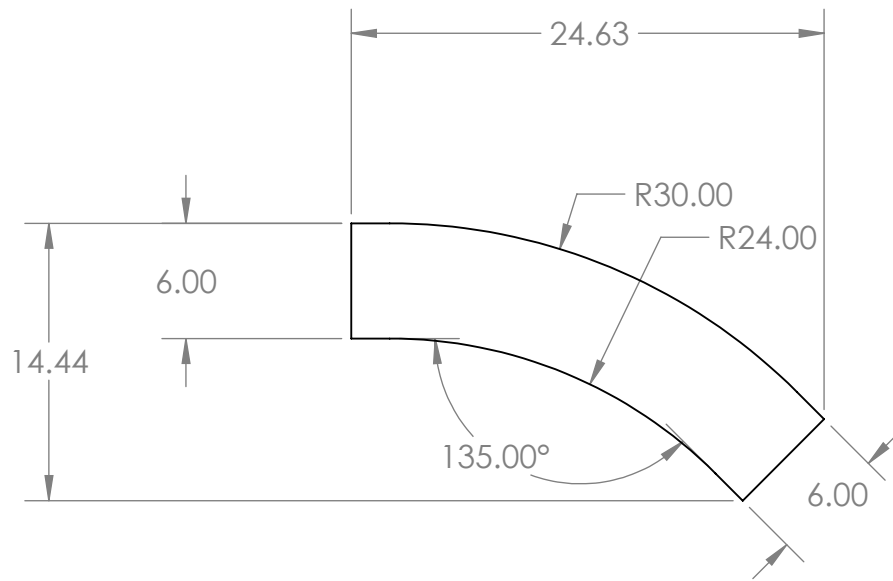
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE: 0.19	
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012	TITLE:
		TOLERANCES:		CHECKED			
		FRACTIONAL $\pm 1/16$		ENG APPR.			
		ANGULAR: MACH ± 0.5 BEND ± 2		MFG APPR.			
		ONE PLACE DECIMAL $\pm .1$		Q.A.			SIZE DWG. NO. REV A Tran_chan_lid2 01
		TWO PLACE DECIMAL $\pm .06$		COMMENTS:			
		THREE PLACE DECIMAL ± 0.030					
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100				SCALE: 1:10 WEIGHT: SHEET 9 OF 9	
		MATERIAL					
		ASTM A36 Steel					
		FINISH					
NEXT ASSY	USED ON						
APPLICATION		DO NOT SCALE DRAWING					

ITEM NO.	PART NUMBER	QTY.
1	Tran_arc_sidewall_04-02	4
2	Tran_arc_1_04-02	2
3	Tran_arc_lid_04-02	2
4	Flange_005	2
5	C-Channel_10'x8"x20"	1
6	Channel_20x12_Lid 4in	2
7	Channel_lid 8FT	1
8	1581A42	1
9	Channel_filler-20in	2



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

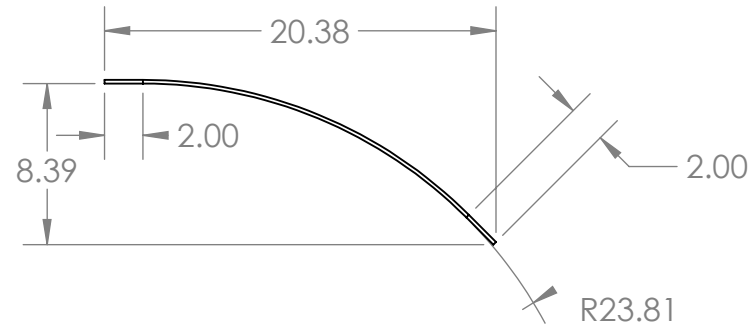
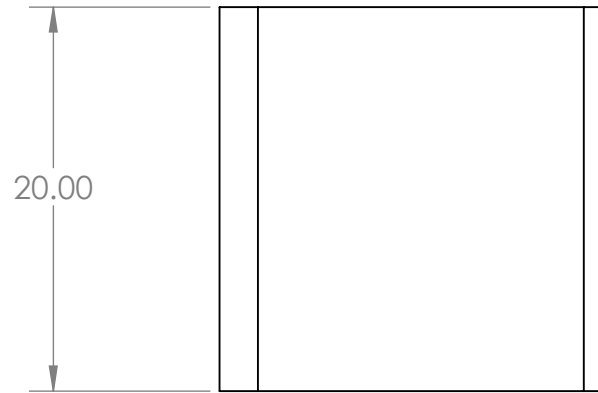
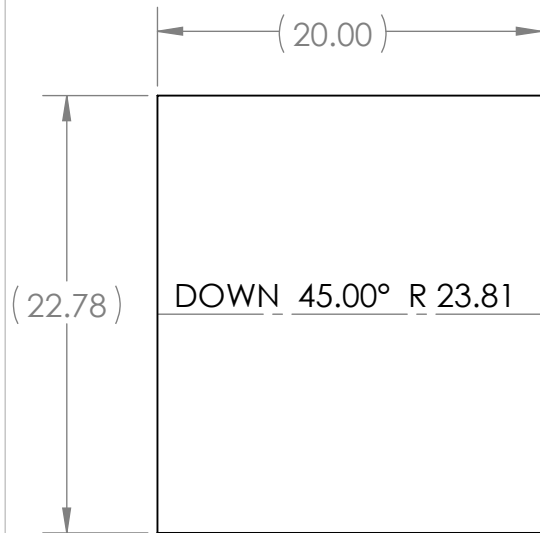
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012	
		TOLERANCES:		CHECKED			TITLE:
		FRACTIONAL ± 1/16		ENG APPR.			
		ANGULAR: MACH ± 0.5 BEND ± 2		MFG APPR.			
		ONE PLACE DECIMAL ± .1		Q.A.			
		TWO PLACE DECIMAL ± .06		COMMENTS:			
		THREE PLACE DECIMAL ± 0.030					
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					SIZE DWG. NO. REV
		MATERIAL					A Transition4-2-02 01
NEXT ASSY	USED ON	FINISH					SCALE: 1:50 WEIGHT: SHEET 1 OF 7
APPLICATION		DO NOT SCALE DRAWING					



PROPRIETARY AND CONFIDENTIAL

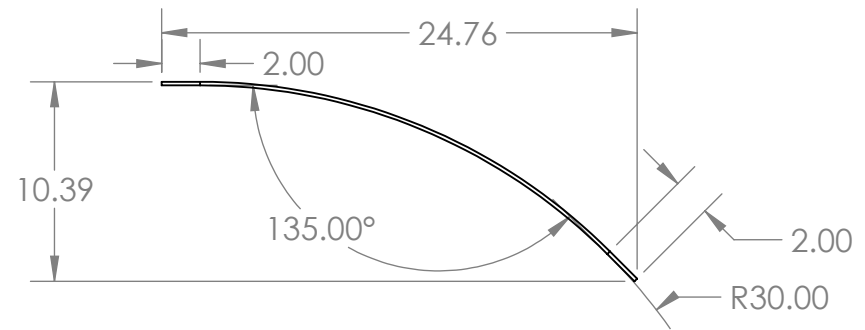
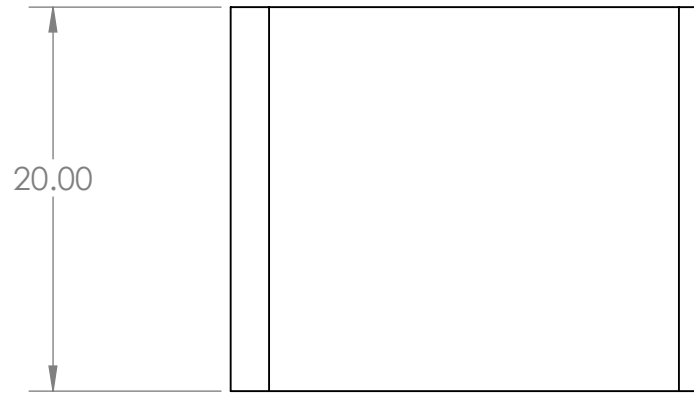
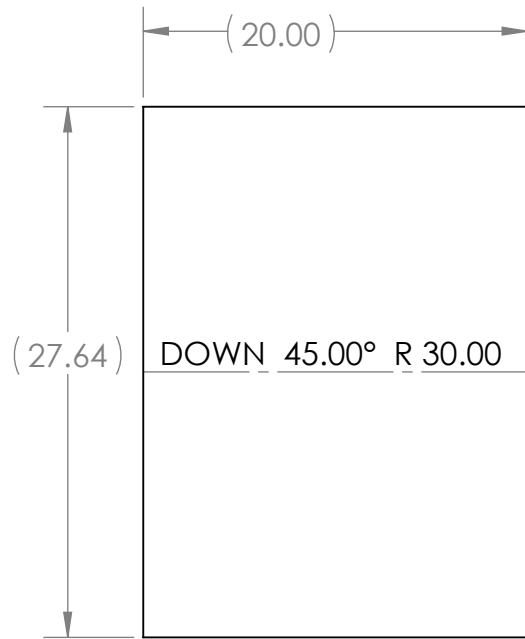
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:	0.1875	
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012	TITLE:	
		TOLERANCES:	CHECKED			ARC SIDEWALL	
		FRACTIONAL $\pm 1/16$	ENG APPR.			SIZE DWG. NO. REV	
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.			A Tran_arc_sidewall_04-02 01	
		ONE PLACE DECIMAL $\pm .1$	Q.A.			SCALE: 1:10 WEIGHT: SHEET 2 OF 7	
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:				
		THREE PLACE DECIMAL ± 0.030					
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					
		MATERIAL					
		5052-H32					
		FINISH					
NEXT ASSY	USED ON						
APPLICATION		DO NOT SCALE DRAWING					



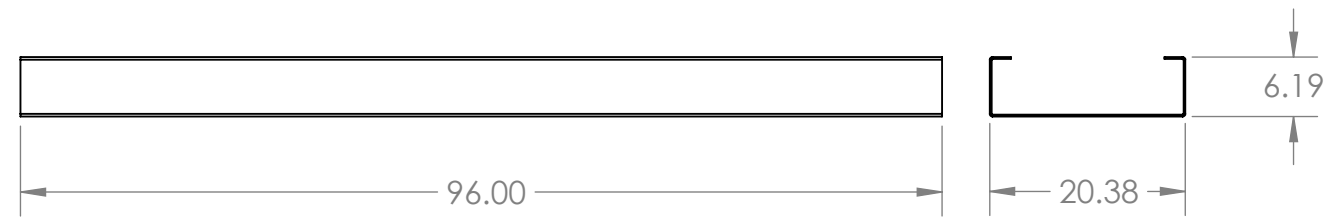
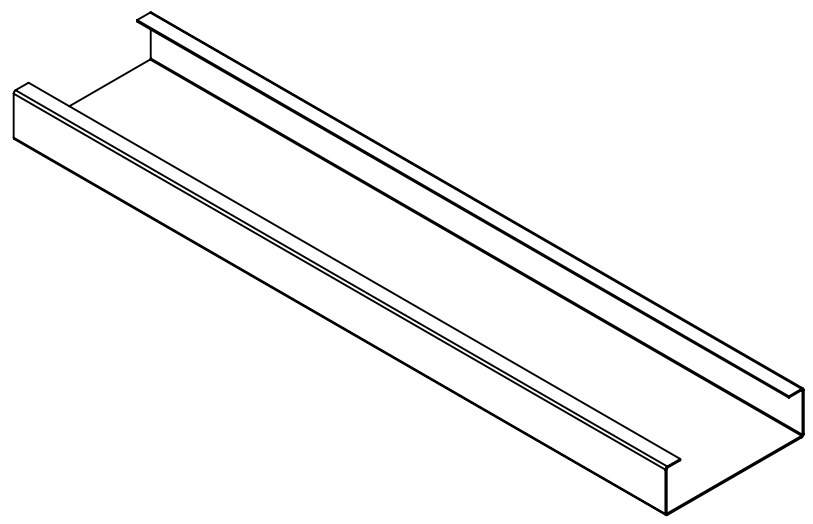
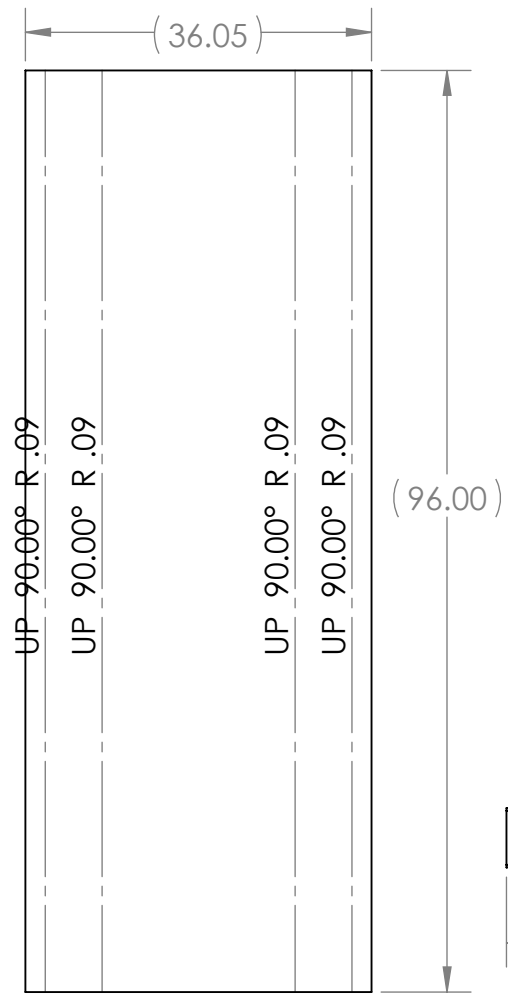
PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	0.19	
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012	TITLE:	
		TOLERANCES:		CHECKED			BOTTOM OF ARC	
		FRACTIONAL ± 1/16		ENG APPR.			SIZE DWG. NO. REV	
		ANGULAR: MACH ± 0.5 BEND ± 2		MFG APPR.			A Tran_arc_1_04-02 01	
		ONE PLACE DECIMAL ± .1		Q.A.			SCALE: 1:10 WEIGHT: SHEET 3 OF 7	
		TWO PLACE DECIMAL ± .06		COMMENTS:				
		THREE PLACE DECIMAL ± 0.030						
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100						
		MATERIAL						
		5052-H32						
NEXT ASSY		USED ON						
APPLICATION		DO NOT SCALE DRAWING						



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:		
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012	0.1875	
		TOLERANCES:		CHECKED			TITLE: LID FOR ARC	
		FRACTIONAL ± 1/16		ENG APPR.				
		ANGULAR: MACH ± 0.5 BEND ± 2		MFG APPR.				
		ONE PLACE DECIMAL ± .1		Q.A.			SIZE DWG. NO. REV A Tran_arc_lid_04-02 01	
		TWO PLACE DECIMAL ± .06		COMMENTS:				
		THREE PLACE DECIMAL ± 0.030					SCALE: 1:10 WEIGHT:	SHEET 4 OF 7
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100						
		MATERIAL						
		5052-H32						
NEXT ASSY		USED ON						
APPLICATION		DO NOT SCALE DRAWING						

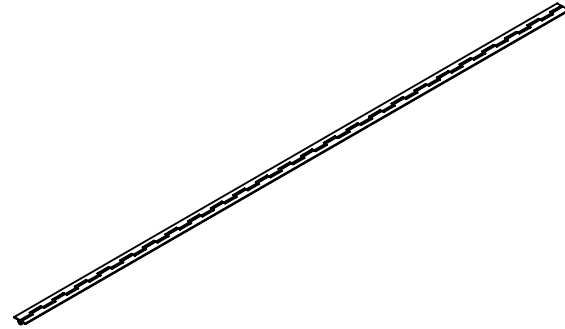
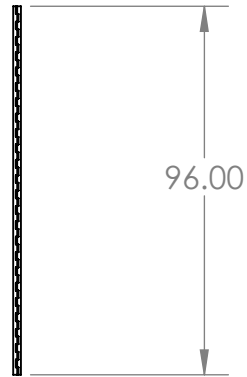


PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012
		TOLERANCES:	CHECKED		
		FRACTIONAL ± 1/16	ENG APPR.		
		ANGULAR: MACH ±0.5 BEND ±2	MFG APPR.		
		ONE PLACE DECIMAL ±.1	Q.A.		
		TWO PLACE DECIMAL ±.06	COMMENTS:		
		THREE PLACE DECIMAL ±0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100			
		MATERIAL			
		5052-H32			
		FINISH			
NEXT ASSY	USED ON				
APPLICATION		DO NOT SCALE DRAWING			

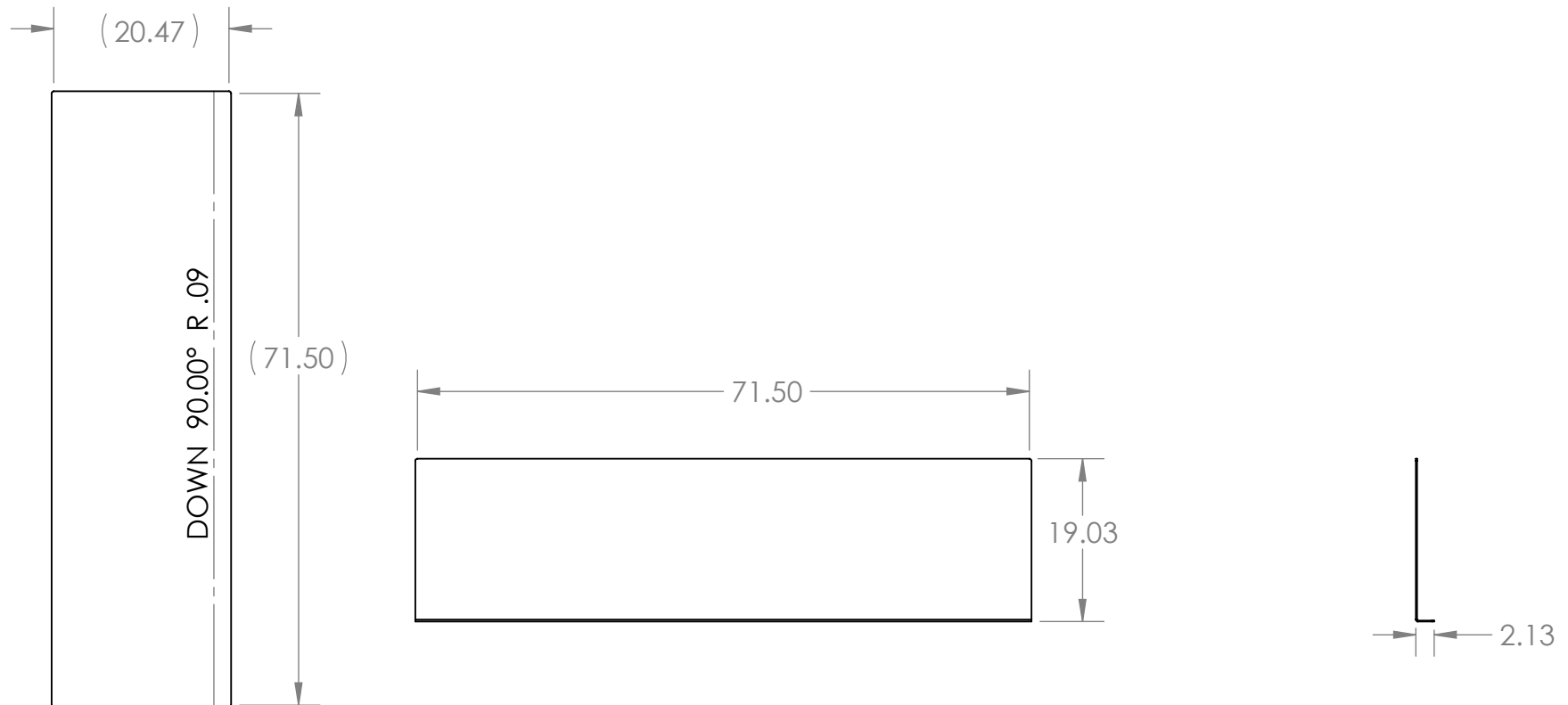
TITLE:		
8ft C-Channel Section		
SIZE	DWG. NO.	REV
A	C-Channel_8x20_8FT	01
SCALE: 1:20	WEIGHT:	SHEET 5 OF 7

NOTE:
PURCHASED PART
8FT ALUMINUM PIANO HINGE



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012	TITLE:
		TOLERANCES:		CHECKED			
		FRACTIONAL $\pm 1/16$		ENG APPR.			
		ANGULAR: MACH ± 0.5 BEND ± 2		MFG APPR.			
		ONE PLACE DECIMAL $\pm .1$		Q.A.			
		TWO PLACE DECIMAL $\pm .06$		COMMENTS:			
		THREE PLACE DECIMAL ± 0.030					
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					SIZE
		MATERIAL					DWG. NO.
		FINISH					REV
NEXT ASSY	USED ON						A
APPLICATION		DO NOT SCALE DRAWING					01
				SCALE: 1:50		WEIGHT:	SHEET 6 OF 7

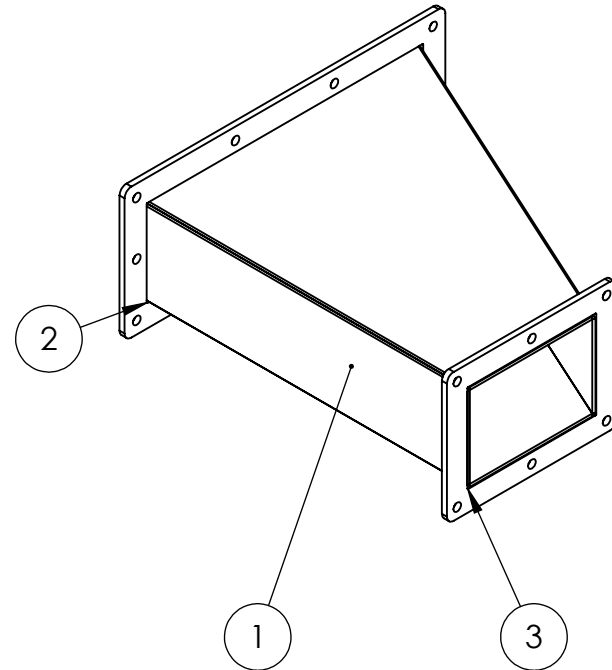


PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012	0.125
		TOLERANCES:		CHECKED			TITLE: 8FT LID FOR C-CHANNEL
		FRACTIONAL ± 1/16		ENG APPR.			
		ANGULAR: MACH ±0.5 BEND ±2		MFG APPR.			
		ONE PLACE DECIMAL ±.1		Q.A.			SIZE DWG. NO. REV A Channel_lid 8FT 01
		TWO PLACE DECIMAL ±.06		COMMENTS:			
		THREE PLACE DECIMAL ±0.030					SCALE: 1:20 WEIGHT: SHEET 7 OF 7
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					
		MATERIAL					
		5052-H32					
NEXT ASSY		USED ON					
APPLICATION		DO NOT SCALE DRAWING					

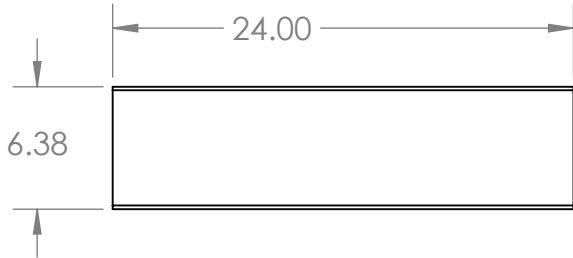
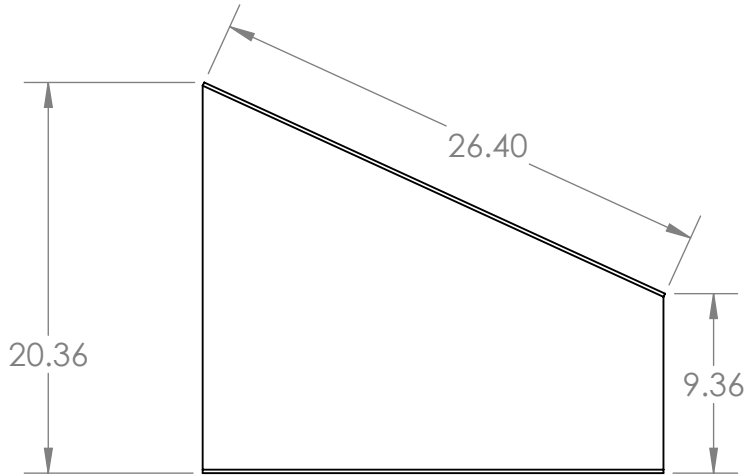
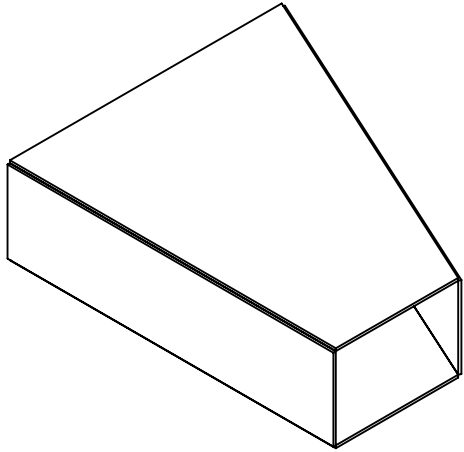
ITEM NO.	PART NUMBER	QTY.
1	Expansion_01	1
2	Flange_005	1
3	Flange_006	1



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

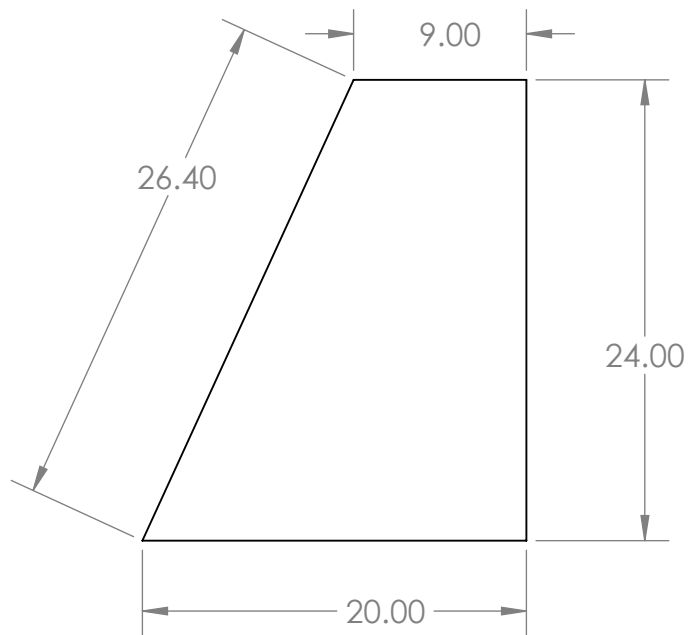
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012	
		TOLERANCES:		CHECKED			TITLE:
		FRACTIONAL $\pm 1/16$		ENG APPR.			
		ANGULAR: MACH ± 0.5 BEND ± 2		MFG APPR.			
		ONE PLACE DECIMAL $\pm .1$		Q.A.			
		TWO PLACE DECIMAL $\pm .06$		COMMENTS:			
		THREE PLACE DECIMAL ± 0.030					
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					
		MATERIAL					
NEXT ASSY	USED ON	FINISH					SIZE DWG. NO. REV
APPLICATION		DO NOT SCALE DRAWING					A Expansion_01 01
							SCALE: 1:10 WEIGHT: SHEET 1 OF 5

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Expansion_01		1
		Sheet	2
		Sheet	1
		Sheet	1



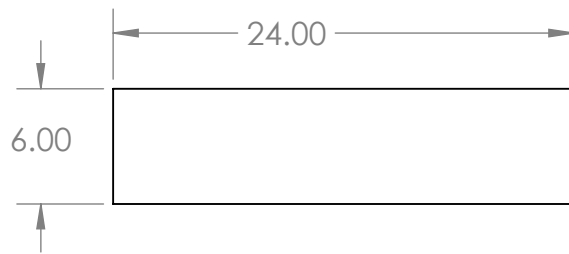
PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012
		TOLERANCES:	CHECKED		TITLE:
		FRACTIONAL $\pm 1/16$	ENG APPR.		
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.		
		ONE PLACE DECIMAL $\pm .1$	Q.A.		
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:		
		THREE PLACE DECIMAL ± 0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100			
		MATERIAL			
NEXT ASSY	USED ON	FINISH			SIZE A
					DWG. NO. Expansion_01
					REV 01
	APPLICATION	DO NOT SCALE DRAWING			SCALE: 1:10
					WEIGHT:
					SHEET 2 OF 5



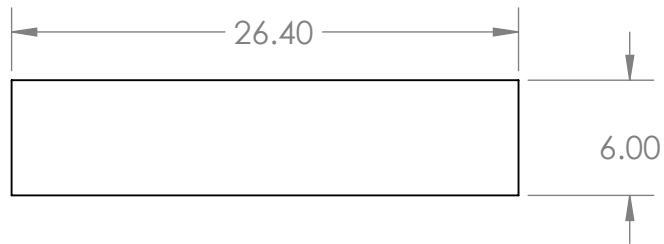
PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012	
		TOLERANCES:	CHECKED			TITLE:
		FRACTIONAL $\pm 1/16$	ENG APPR.			FLAT-1
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.			
		ONE PLACE DECIMAL $\pm .1$	Q.A.			
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:			
		THREE PLACE DECIMAL ± 0.030				
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100				SIZE DWG. NO. REV
		MATERIAL				A Expansion_01 01
NEXT ASSY	USED ON	FINISH				SCALE: 1:10 WEIGHT: SHEET 3 OF 5
APPLICATION		DO NOT SCALE DRAWING				



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

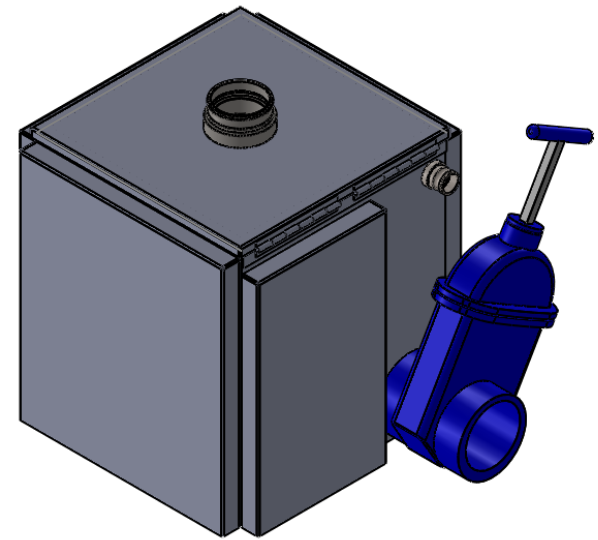
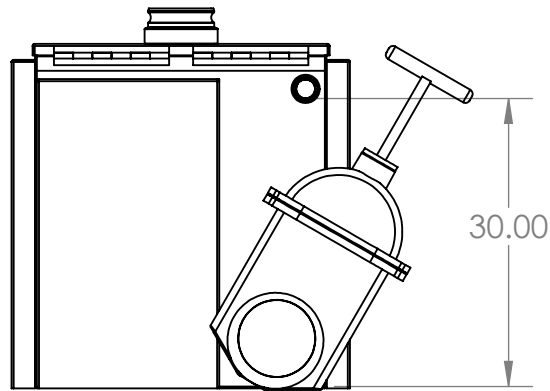
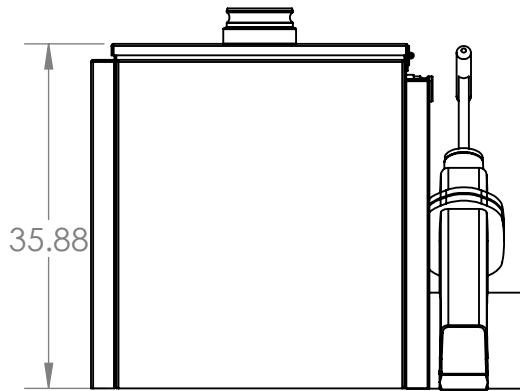
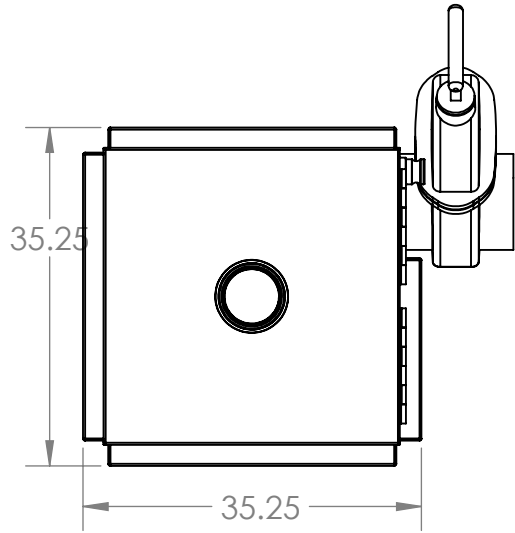
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012
		TOLERANCES:		CHECKED		
		FRACTIONAL $\pm 1/16$		ENG APPR.		
		ANGULAR: MACH ± 0.5 BEND ± 2		MFG APPR.		
		ONE PLACE DECIMAL $\pm .1$		Q.A.		
		TWO PLACE DECIMAL $\pm .06$		COMMENTS:		
		THREE PLACE DECIMAL ± 0.030				
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100				TITLE:
		MATERIAL				FLAT-2
NEXT ASSY	USED ON	FINISH				SIZE DWG. NO. REV
						A Expansion_01 01
APPLICATION		DO NOT SCALE DRAWING				SCALE: 1:10 WEIGHT: SHEET 4 OF 5



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012	
		TOLERANCES:		CHECKED			TITLE:
		FRACTIONAL $\pm 1/16$		ENG APPR.			FLAT-3
		ANGULAR: MACH ± 0.5 BEND ± 2		MFG APPR.			
		ONE PLACE DECIMAL $\pm .1$		Q.A.			
		TWO PLACE DECIMAL $\pm .06$		COMMENTS:			
		THREE PLACE DECIMAL ± 0.030					
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					SIZE DWG. NO. REV
		MATERIAL					A Expansion_01 01
NEXT ASSY	USED ON	FINISH					SCALE: 1:10 WEIGHT: SHEET 5 OF 5
APPLICATION		DO NOT SCALE DRAWING					

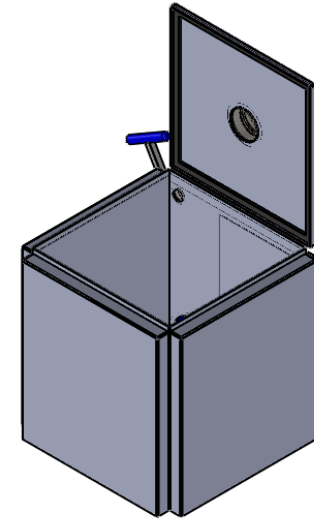
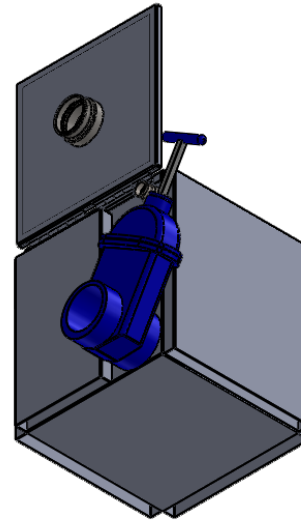
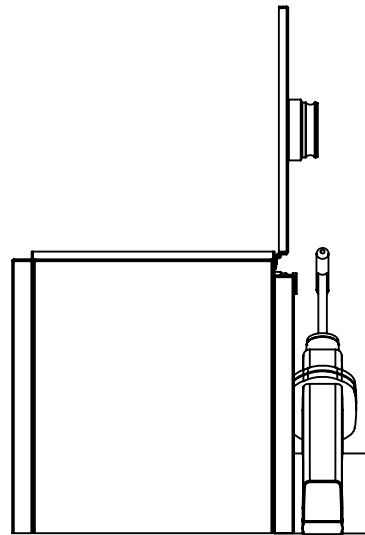
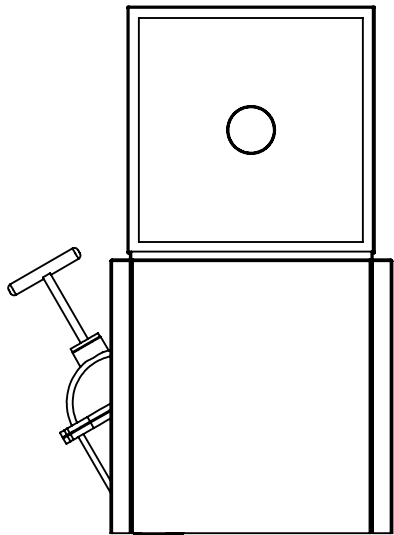
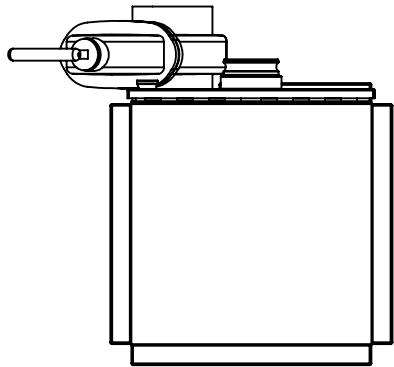
NOT FINALIZED
 ALL PLUMBING TO BE PURCHASED AND
 INSTALLED BY U OF I



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

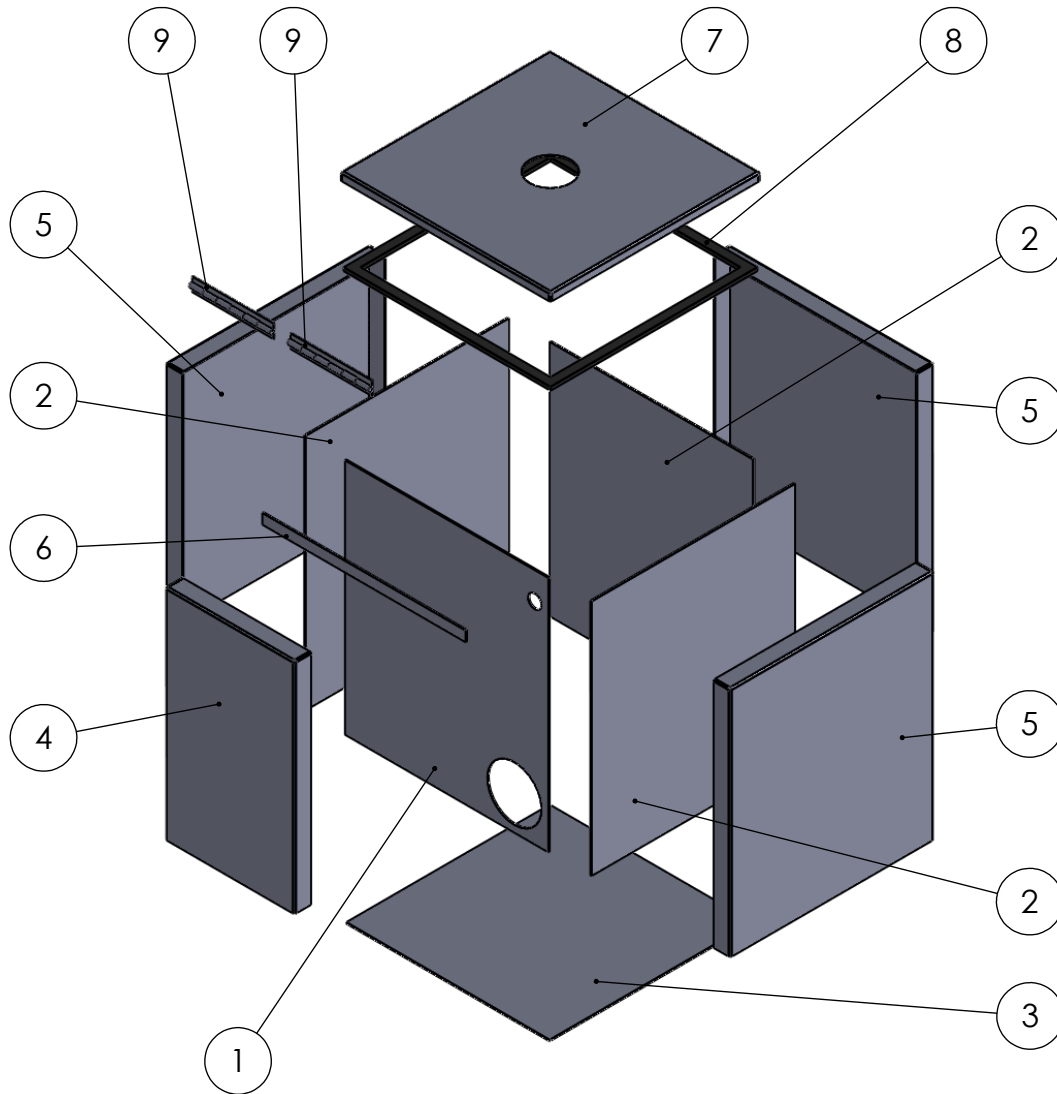
		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012
		TOLERANCES:	CHECKED		
		FRACTIONAL $\pm 1/16$	ENG APPR.		
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.		
		ONE PLACE DECIMAL $\pm .1$	Q.A.		
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:		
		THREE PLACE DECIMAL ± 0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100			
		MATERIAL			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

TITLE:		
SIZE	DWG. NO.	REV
A	30x30x30_storage tank	01
SCALE: 1:20	WEIGHT:	SHEET 1 OF 12



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

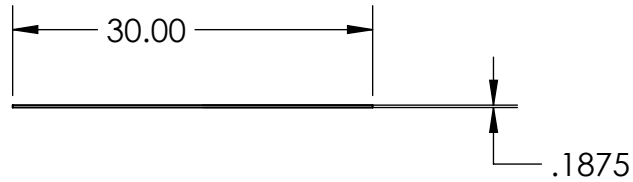
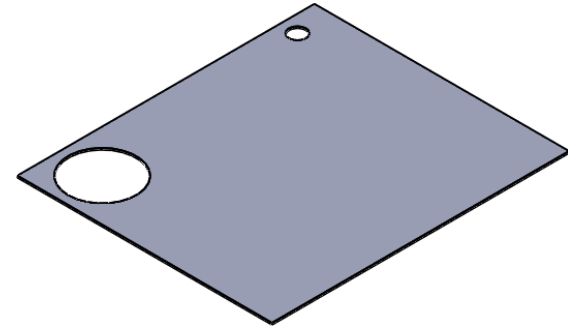
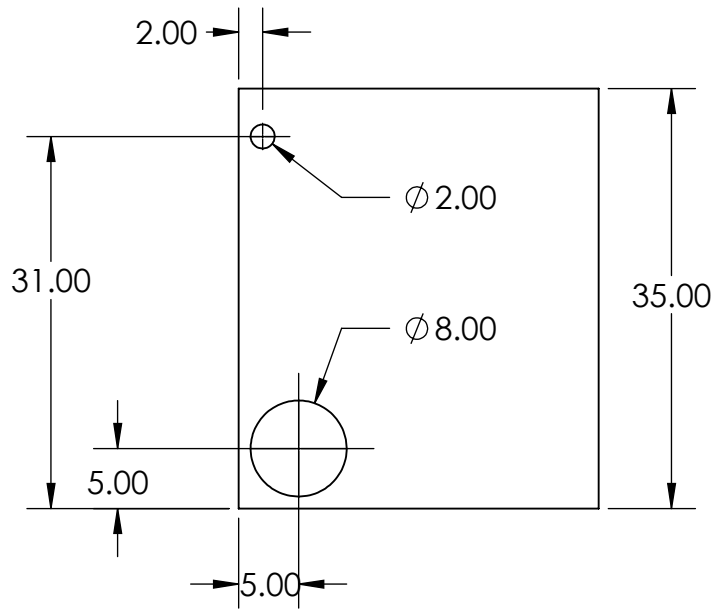
		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012
		TOLERANCES:	CHECKED		TITLE:
		FRACTIONAL $\pm 1/16$	ENG APPR.		
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.		
		ONE PLACE DECIMAL $\pm .1$	Q.A.		
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:		
		THREE PLACE DECIMAL ± 0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100			
		MATERIAL			SIZE DWG. NO. REV
NEXT ASSY	USED ON	FINISH			A 30x30x30_storage tank 01
APPLICATION		DO NOT SCALE DRAWING			SCALE: 1:24 WEIGHT: SHEET 2 OF 12



BOM Table		
ITEM NO.	PART NUMBER	QTY.
10	30x30x30-back wall	1
11	30x30x30-Full walls	3
12	30x30x30-bottom	1
13	30x30x30-back insulation bay	1
14	30x30x30-Full insulation bay	3
15	30x30x30-Hinge plate	1
16	30x30x30-Lid	1
17	30x30x30-foam seal	1
9	Neal piano hinge	2
18	Neal Ref -2in MALE-DIXON	1
19	Neal Ref -6in MALE-DIXON	1
20	Neal Ref -8in knife gate	1

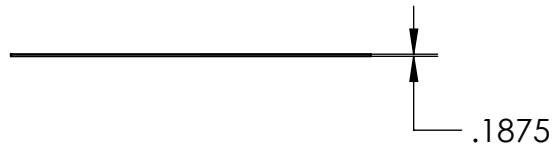
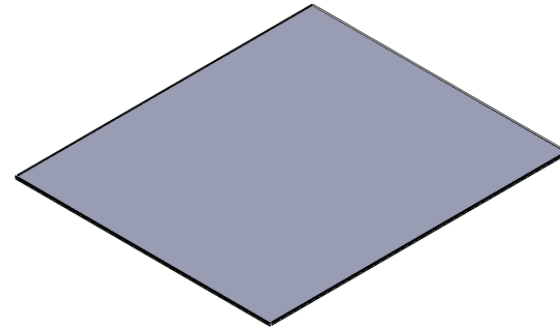
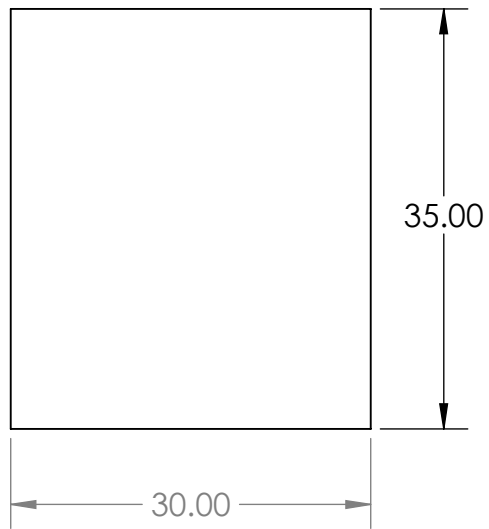
PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012
		TOLERANCES:	CHECKED		TITLE:
		FRACTIONAL ± 1/16	ENG APPR.		
		ANGULAR: MACH ±0.5 BEND ±2	MFG APPR.		
		ONE PLACE DECIMAL ±.1	Q.A.		
		TWO PLACE DECIMAL ±.06	COMMENTS:		
		THREE PLACE DECIMAL ±0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100			
NEXT ASSY	USED ON	MATERIAL			SIZE DWG. NO. REV
		FINISH			A 30x30x30_storage tank 01
APPLICATION		DO NOT SCALE DRAWING			SCALE: 1:16 WEIGHT: SHEET 3 OF 12



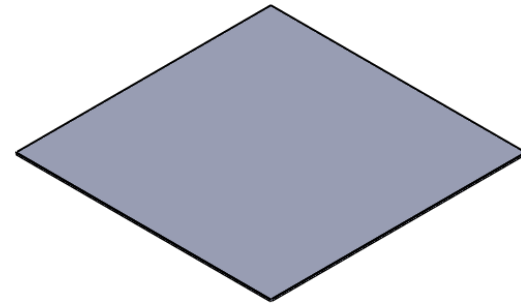
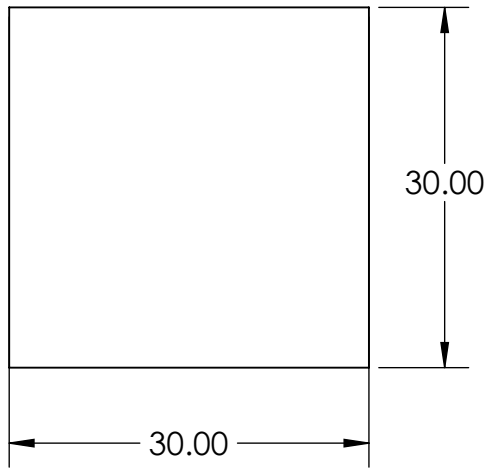
PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012	
		TOLERANCES:	CHECKED			TITLE:
		FRACTIONAL $\pm 1/16$	ENG APPR.			
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.			
		ONE PLACE DECIMAL $\pm .1$	Q.A.			
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:			
		THREE PLACE DECIMAL ± 0.030				
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100				SIZE DWG. NO. REV
		MATERIAL				A 30x30x30-back wall 01
NEXT ASSY	USED ON	FINISH				SCALE: 1:16 WEIGHT: SHEET 4 OF 12
APPLICATION		DO NOT SCALE DRAWING				



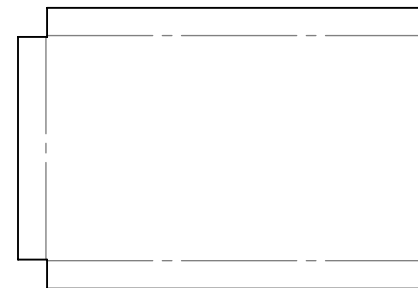
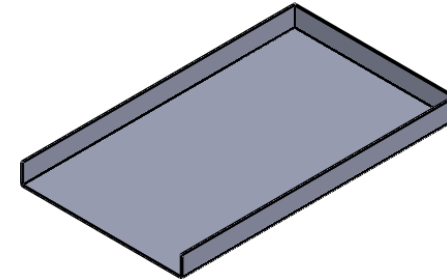
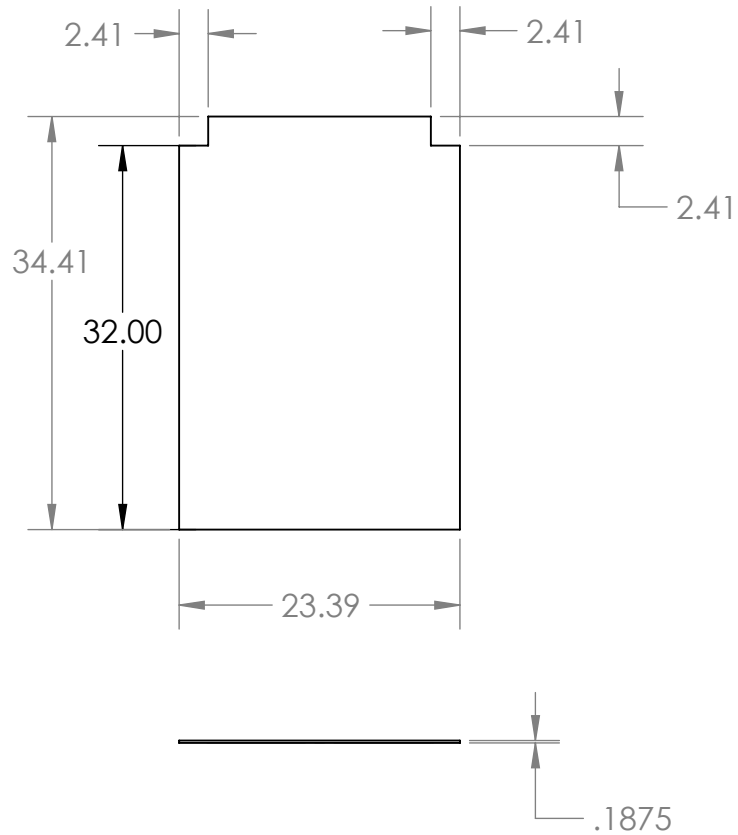
PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012
		TOLERANCES:	CHECKED		TITLE:
		FRACTIONAL $\pm 1/16$	ENG APPR.		
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.		
		ONE PLACE DECIMAL $\pm .1$	Q.A.		
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:		
		THREE PLACE DECIMAL ± 0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100			
		MATERIAL			SIZE DWG. NO. REV
NEXT ASSY	USED ON	FINISH			A 30x30x30-Full walls 01
APPLICATION		DO NOT SCALE DRAWING			SCALE: 1:16 WEIGHT: SHEET 5 OF 12



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012	
		TOLERANCES:		CHECKED			TITLE:
		FRACTIONAL ± 1/16		ENG APPR.			
		ANGULAR: MACH ±0.5 BEND ±2		MFG APPR.			
		ONE PLACE DECIMAL ±.1		Q.A.			
		TWO PLACE DECIMAL ±.06		COMMENTS:			
		THREE PLACE DECIMAL ±0.030					
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					
		MATERIAL					
NEXT ASSY	USED ON	FINISH					SIZE DWG. NO. REV
APPLICATION		DO NOT SCALE DRAWING					A 30x30x30-bottom 01
							SCALE: 1:16 WEIGHT: SHEET 6 OF 12

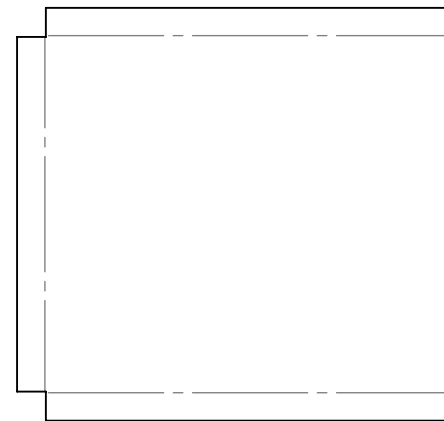
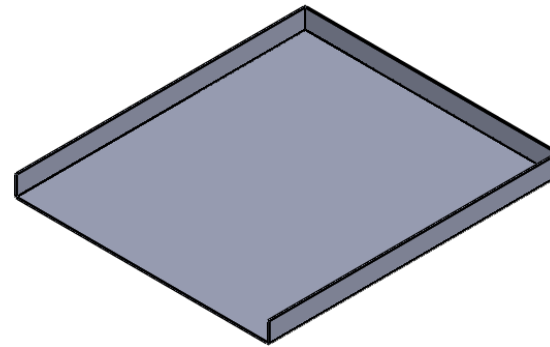
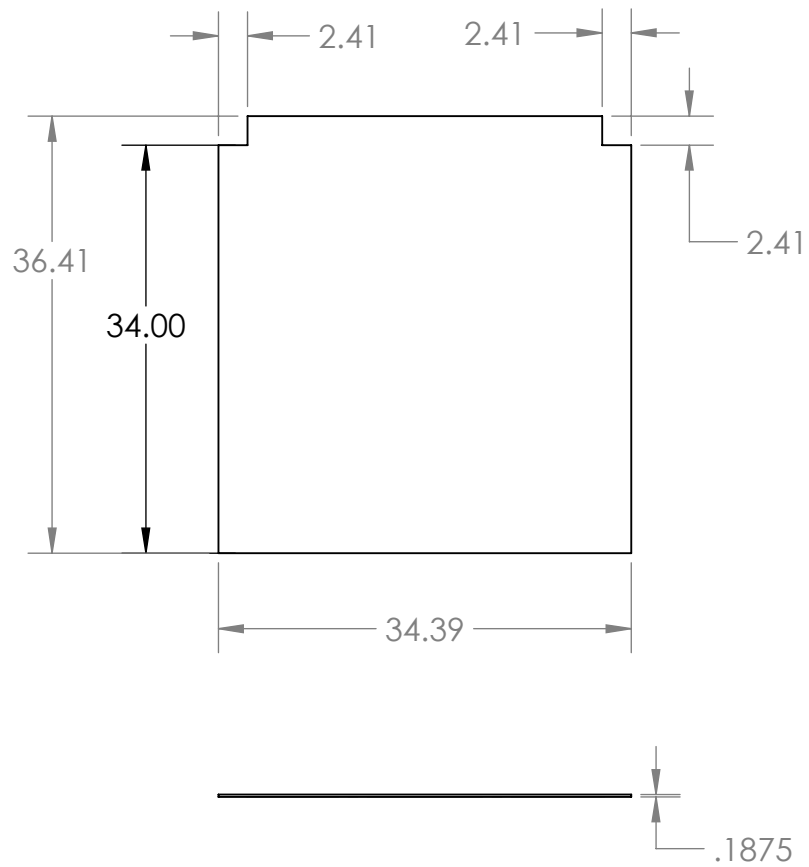


bend 90.00°
Fabricator selects radius of bends



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012	
		TOLERANCES:		CHECKED			TITLE:
		FRACTIONAL ± 1/16		ENG APPR.			
		ANGULAR: MACH ±0.5 BEND ±2		MFG APPR.			
		ONE PLACE DECIMAL ±.1		Q.A.			
		TWO PLACE DECIMAL ±.06		COMMENTS:			
		THREE PLACE DECIMAL ±0.030					
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					
		MATERIAL					
NEXT ASSY	USED ON	FINISH					SIZE DWG. NO. REV
APPLICATION		DO NOT SCALE DRAWING					A x30x30-back insulation bay 01
							SCALE: 1:16 WEIGHT: SHEET 7 OF 12

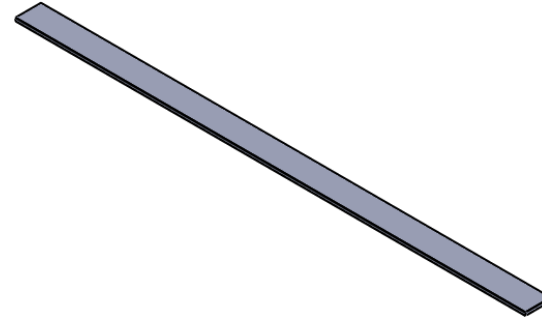
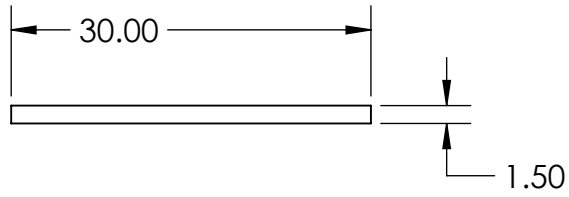


bend 90.00°
Fabricator selects radius of bends



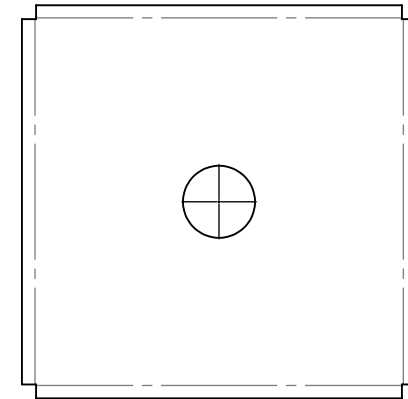
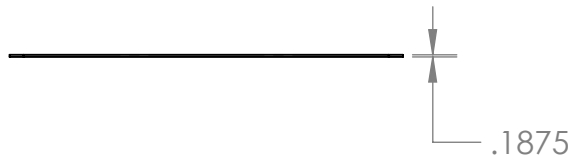
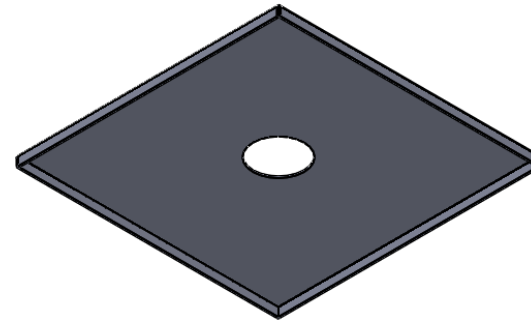
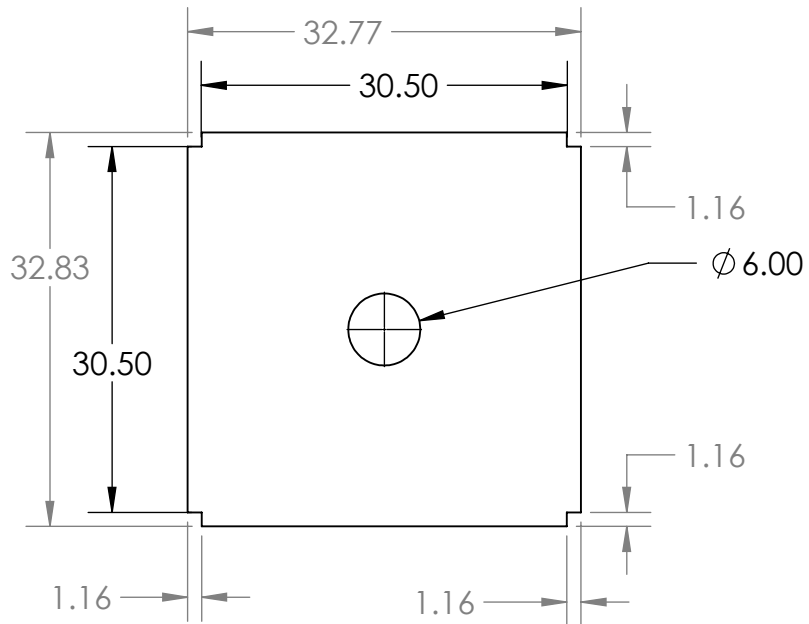
PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012	
		TOLERANCES:		CHECKED			TITLE:
		FRACTIONAL ± 1/16		ENG APPR.			
		ANGULAR: MACH ± 0.5 BEND ± 2		MFG APPR.			
		ONE PLACE DECIMAL ± .1		Q.A.			
		TWO PLACE DECIMAL ± .06		COMMENTS:			
		THREE PLACE DECIMAL ± 0.030					
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					
		MATERIAL					
NEXT ASSY	USED ON	FINISH				SIZE	DWG. NO.
APPLICATION		DO NOT SCALE DRAWING				A 0x30x30-Full insulation bay 01	REV
						SCALE: 1:16	WEIGHT:
							SHEET 8 OF 12



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012	TITLE:
		TOLERANCES:	CHECKED			
		FRACTIONAL ± 1/16	ENG APPR.			
		ANGULAR: MACH ±0.5 BEND ±2	MFG APPR.			
		ONE PLACE DECIMAL ±.1	Q.A.			SIZE DWG. NO. REV A 30x30x30-Hinge plate 01
		TWO PLACE DECIMAL ±.06	COMMENTS:			
		THREE PLACE DECIMAL ±0.030				SCALE: 1:16 WEIGHT: SHEET 9 OF 12
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100				
		MATERIAL				
NEXT ASSY	USED ON	FINISH				
APPLICATION		DO NOT SCALE DRAWING				

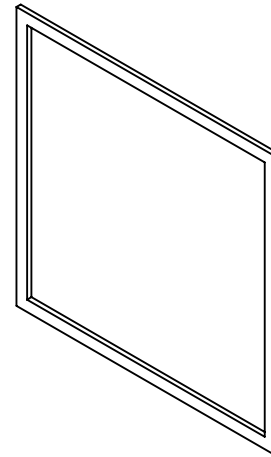
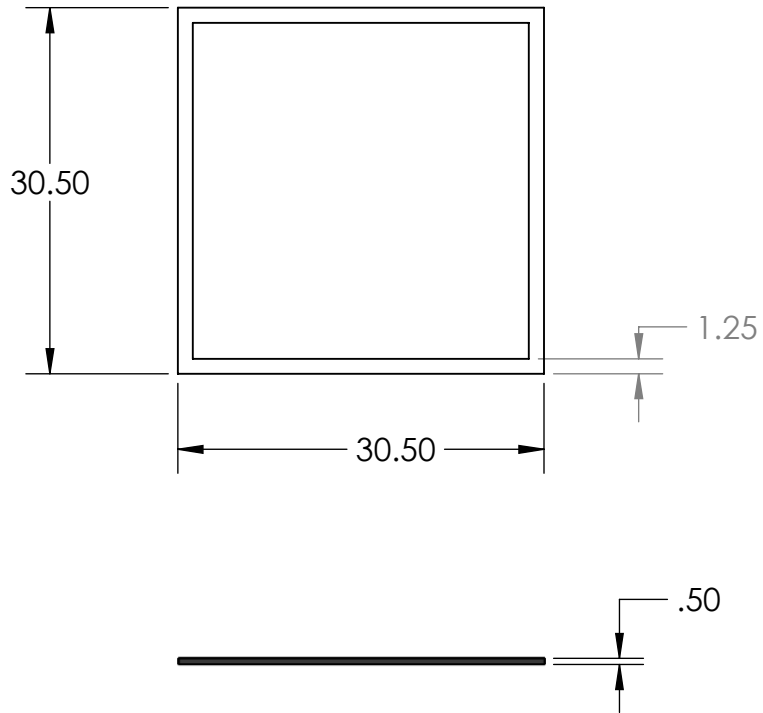


bend 90.00°
Fabricator selects radius of bends



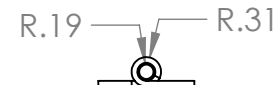
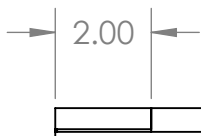
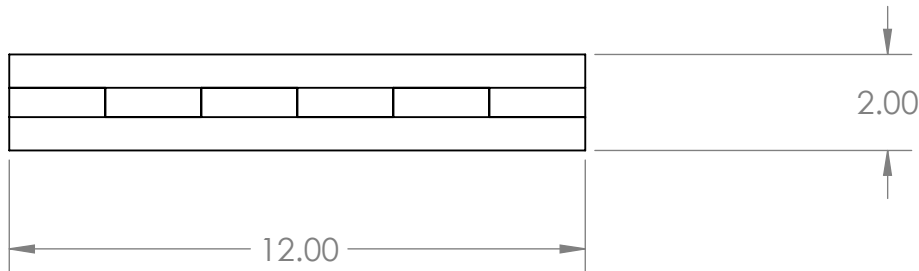
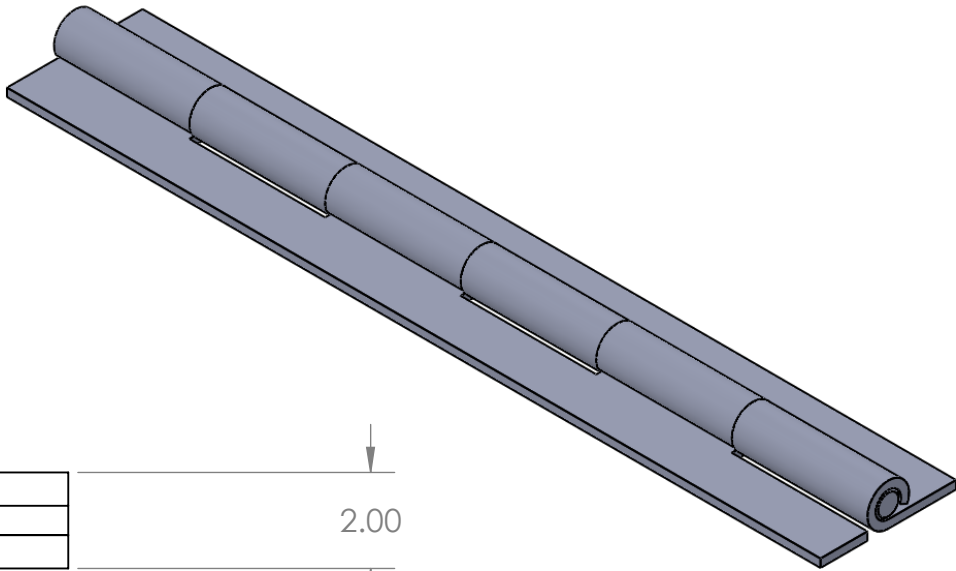
PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:		
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012		
		TOLERANCES:		CHECKED			TITLE:	
		FRACTIONAL ± 1/16		ENG APPR.				
		ANGULAR: MACH ± 0.5 BEND ± 2		MFG APPR.				
		ONE PLACE DECIMAL ± .1		Q.A.				
		TWO PLACE DECIMAL ± .06		COMMENTS:				
		THREE PLACE DECIMAL ± 0.030						
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100						
		MATERIAL						
NEXT ASSY	USED ON	FINISH				SIZE	DWG. NO.	REV
APPLICATION		DO NOT SCALE DRAWING				A	30x30x30-Lid	01
						SCALE: 1:16	WEIGHT:	SHEET 10 OF 12



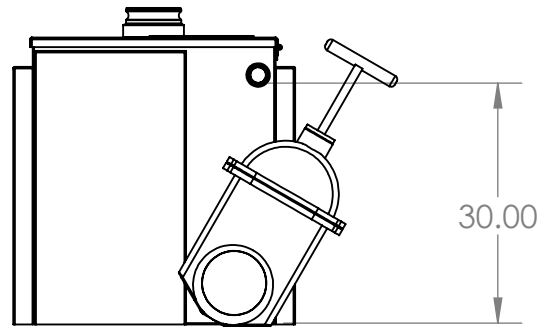
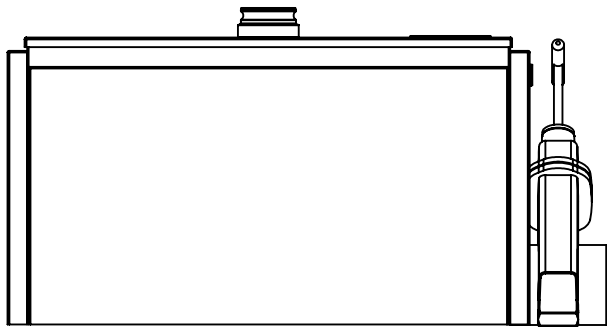
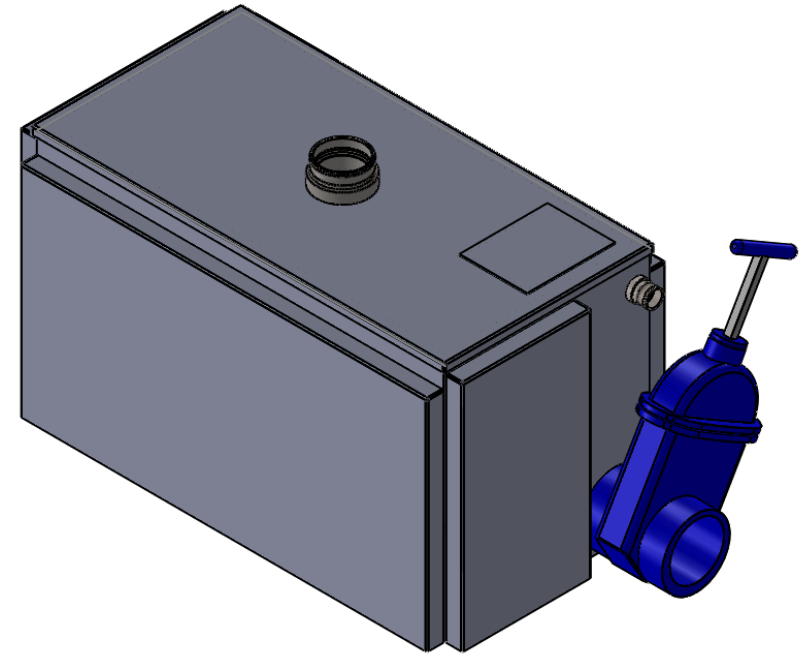
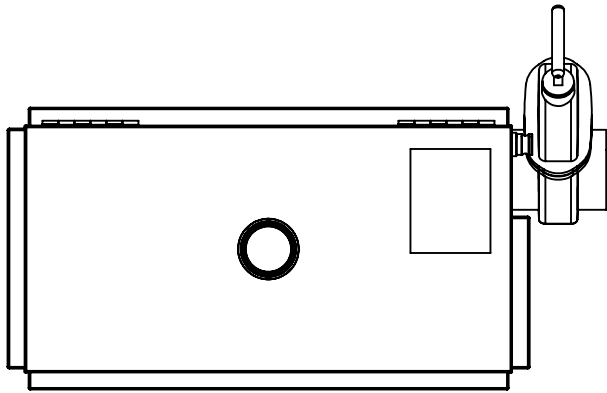
PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012	
		TOLERANCES:		CHECKED			TITLE:
		FRACTIONAL ± 1/16		ENG APPR.			
		ANGULAR: MACH ±0.5 BEND ±2		MFG APPR.			
		ONE PLACE DECIMAL ±.1		Q.A.			
		TWO PLACE DECIMAL ±.06		COMMENTS:			
		THREE PLACE DECIMAL ±0.030					
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					
		MATERIAL					
NEXT ASSY	USED ON	FINISH				SIZE	DWG. NO.
APPLICATION		DO NOT SCALE DRAWING				A	30x30x30-foam seal
							REV
							01
						SCALE: 1:16	WEIGHT:
							SHEET 11 OF 12



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012	
		TOLERANCES:		CHECKED			TITLE:
		FRACTIONAL ± 1/16		ENG APPR.			
		ANGULAR: MACH ±0.5 BEND ±2		MFG APPR.			
		ONE PLACE DECIMAL ±.1		Q.A.			
		TWO PLACE DECIMAL ±.06		COMMENTS:			
		THREE PLACE DECIMAL ±0.030					
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					
		MATERIAL					
NEXT ASSY	USED ON	FINISH					SIZE DWG. NO. REV
APPLICATION		DO NOT SCALE DRAWING					A Neal piano hinge 01
							SCALE: 1:4 WEIGHT: SHEET 12 OF 12



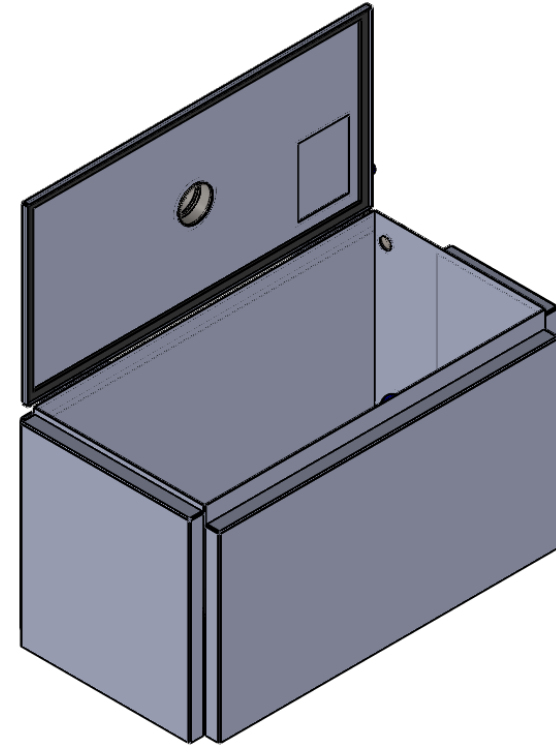
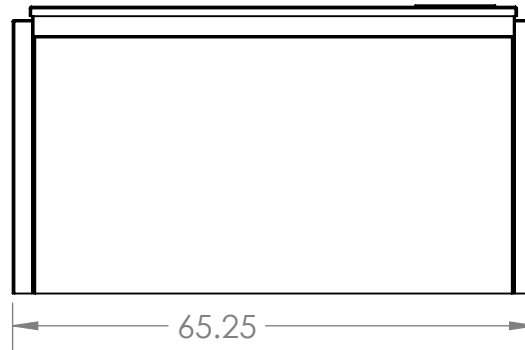
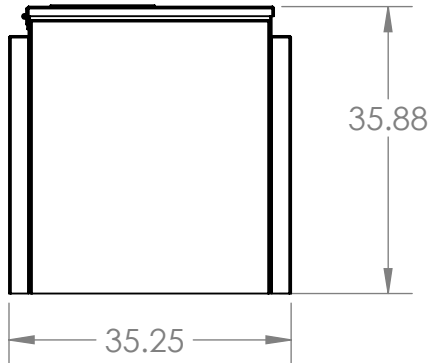
PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012
		TOLERANCES:	CHECKED		
		FRACTIONAL $\pm 1/16$	ENG APPR.		
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.		
		ONE PLACE DECIMAL $\pm .1$	Q.A.		
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:		
		THREE PLACE DECIMAL ± 0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100			
		MATERIAL			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

TITLE:		
SIZE	DWG. NO.	REV
A	60x30x30_storage tank	01
SCALE: 1:24	WEIGHT:	SHEET 1 OF 15

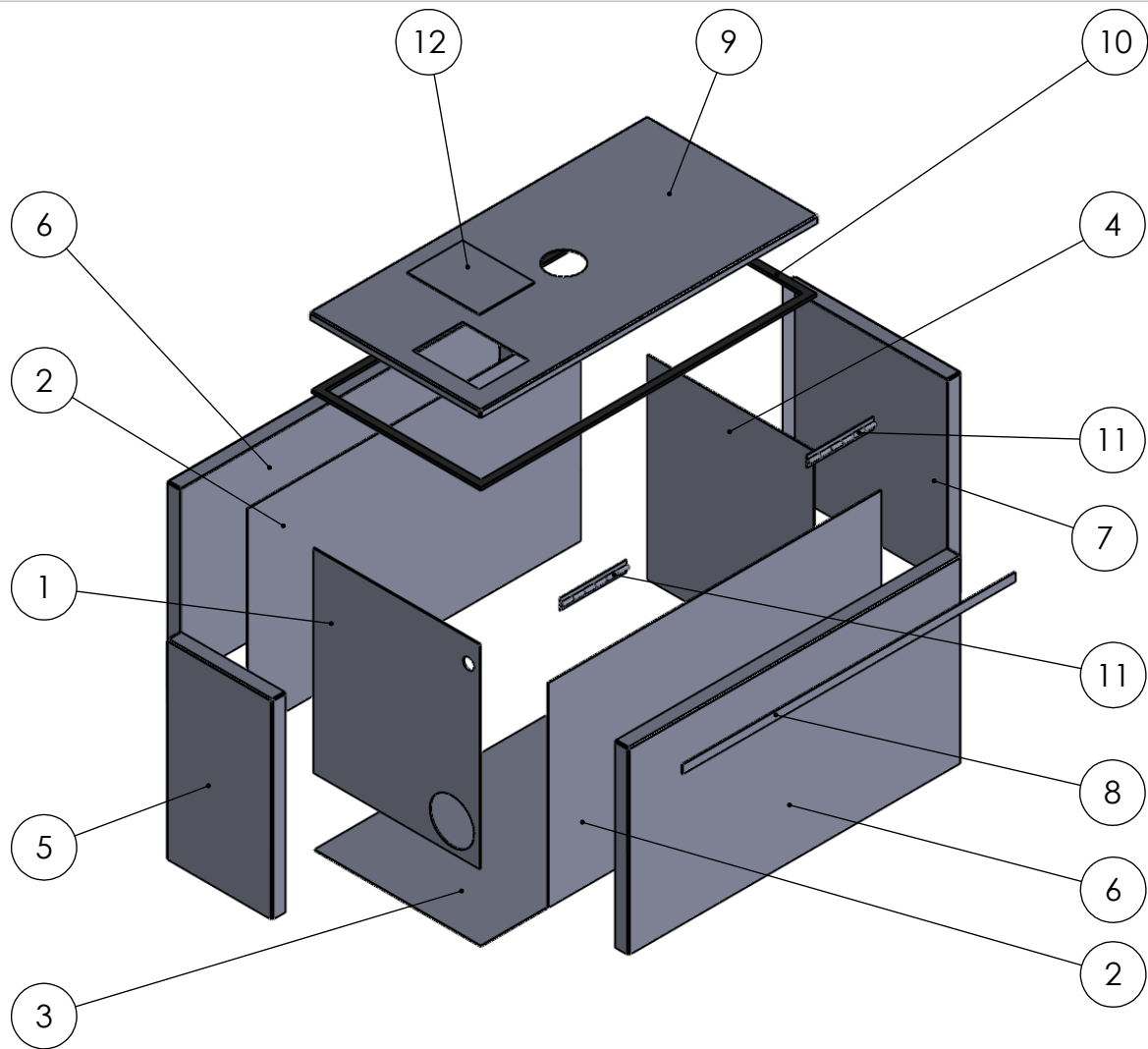
2.25 TYP

BENT SHEETMETAL
50-52 ALUMINUM
DESIGNED TO BE AN INSULATED
WATER TANK



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012	
		TOLERANCES:		CHECKED			TITLE:
		FRACTIONAL ± 1/16		ENG APPR.			
		ANGULAR: MACH ± 0.5 BEND ± 2		MFG APPR.			
		ONE PLACE DECIMAL ± .1		Q.A.			
		TWO PLACE DECIMAL ± .06		COMMENTS:			
		THREE PLACE DECIMAL ± 0.030					
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					
		MATERIAL					
NEXT ASSY	USED ON	FINISH				SIZE	DWG. NO.
APPLICATION		DO NOT SCALE DRAWING				A 60x30x30_storage tank	REV 01
						SCALE: 1:24	WEIGHT:
							SHEET 2 OF 15

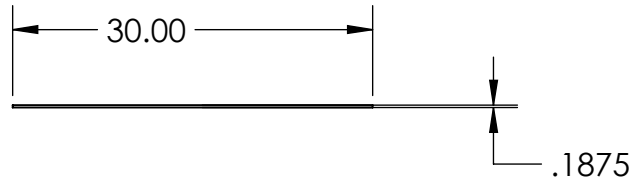
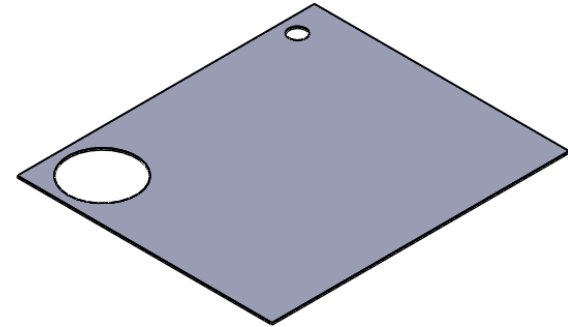
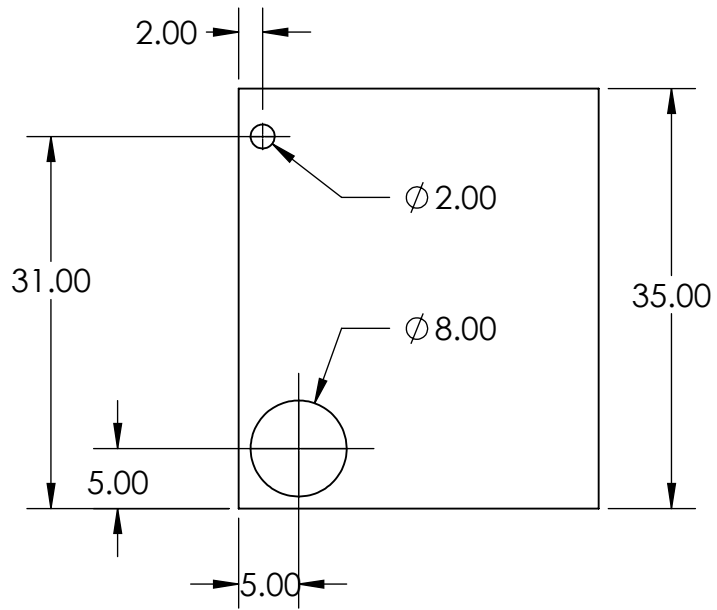


BOM Table		
ITEM NO.	PART NUMBER	QTY.
1	60x30x30-back wall	1
2	60x30x30-Side walls	2
3	60x30x30-bottom	1
4	60x30x30-Front wall	1
5	60x30x30-back insulation bay	1
6	60x30x30-Side insulation bays	2
7	60x30x30-Front insulation bay	1
8	60x30x30-Hinge plate	1
9	60x30x30-Lid	1
10	60x30x30-foam seal	1
11	Neal piano hinge	2
12	60x30x30-Hatch	1



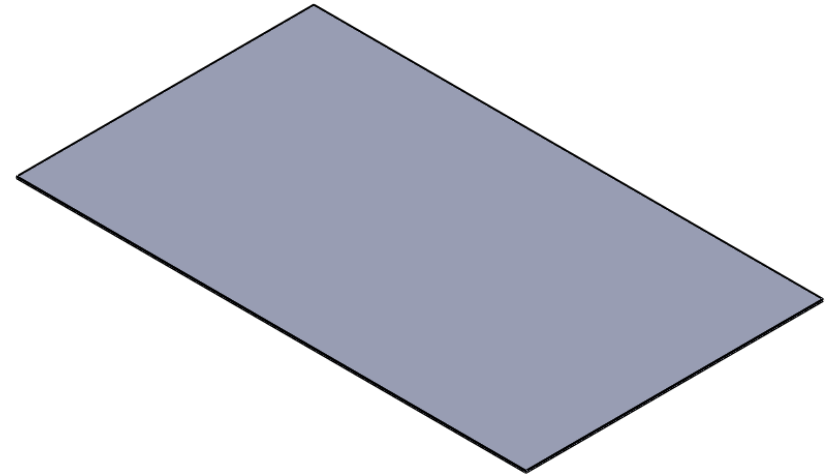
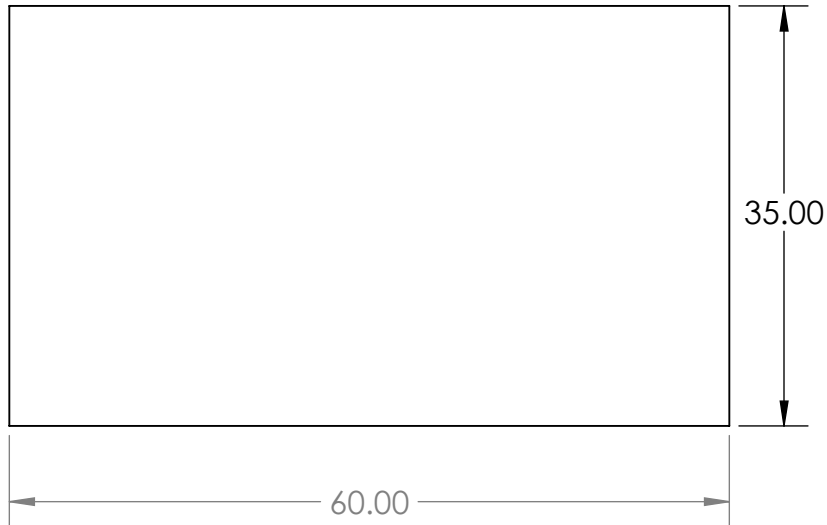
PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012
		TOLERANCES:	CHECKED		TITLE:
		FRACTIONAL ± 1/16	ENG APPR.		
		ANGULAR: MACH ±0.5 BEND ±2	MFG APPR.		
		ONE PLACE DECIMAL ±.1	Q.A.		
		TWO PLACE DECIMAL ±.06	COMMENTS:		
		THREE PLACE DECIMAL ±0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100			
NEXT ASSY	USED ON	MATERIAL			SIZE DWG. NO. REV
		FINISH			A 60x30x30_storage tank 01
APPLICATION		DO NOT SCALE DRAWING			SCALE: 1:16 WEIGHT: SHEET 3 OF 15



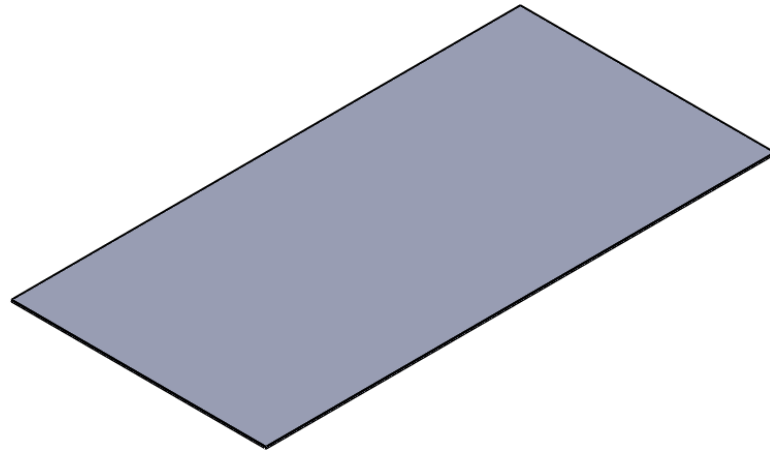
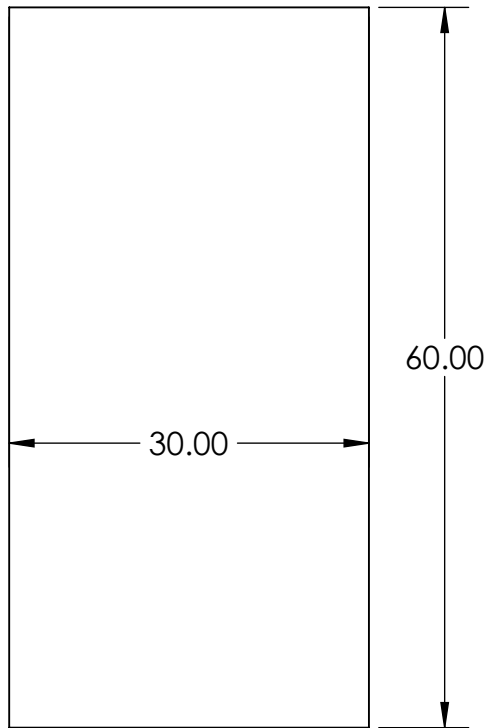
PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012	
		TOLERANCES:		CHECKED			TITLE:
		FRACTIONAL ± 1/16		ENG APPR.			
		ANGULAR: MACH ±0.5 BEND ±2		MFG APPR.			
		ONE PLACE DECIMAL ±.1		Q.A.			
		TWO PLACE DECIMAL ±.06		COMMENTS:			
		THREE PLACE DECIMAL ±0.030					
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					
		MATERIAL					
NEXT ASSY	USED ON	FINISH					SIZE DWG. NO. REV
APPLICATION		DO NOT SCALE DRAWING					A 60x30x30-back wall 01
							SCALE: 1:16 WEIGHT: SHEET 4 OF 15



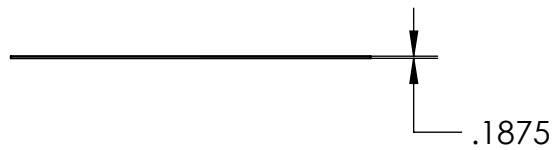
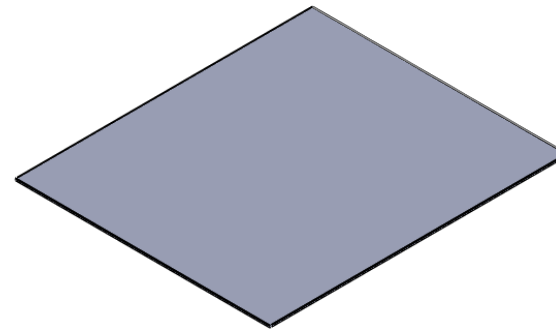
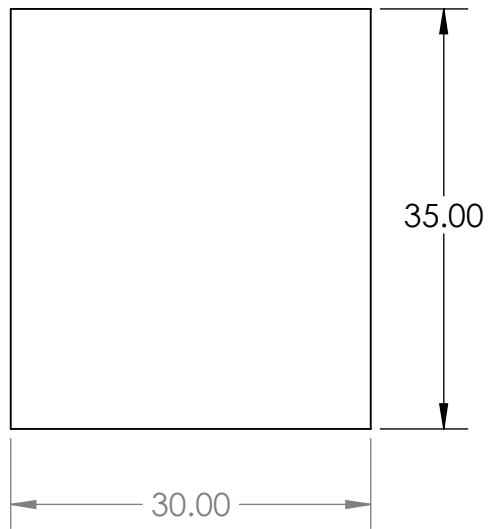
PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012	TITLE:
		TOLERANCES:		CHECKED			
		FRACTIONAL $\pm 1/16$		ENG APPR.			
		ANGULAR: MACH ± 0.5 BEND ± 2		MFG APPR.			
		ONE PLACE DECIMAL $\pm .1$		Q.A.			SIZE DWG. NO. REV
		TWO PLACE DECIMAL $\pm .06$		COMMENTS:			
		THREE PLACE DECIMAL ± 0.030					A 60x30x30-Side walls 01
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					SCALE: 1:16 WEIGHT: SHEET 5 OF 15
		MATERIAL					
NEXT ASSY	USED ON	FINISH					
APPLICATION		DO NOT SCALE DRAWING					



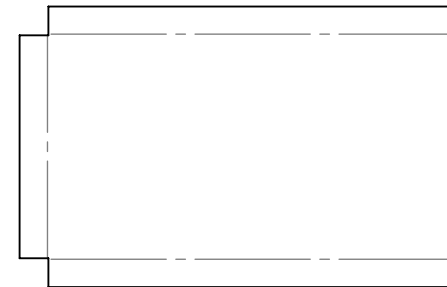
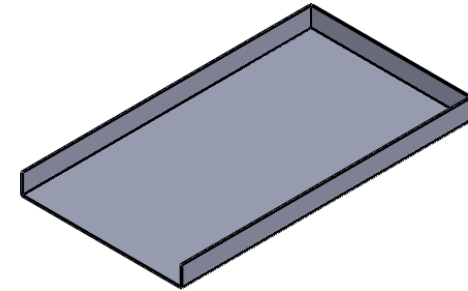
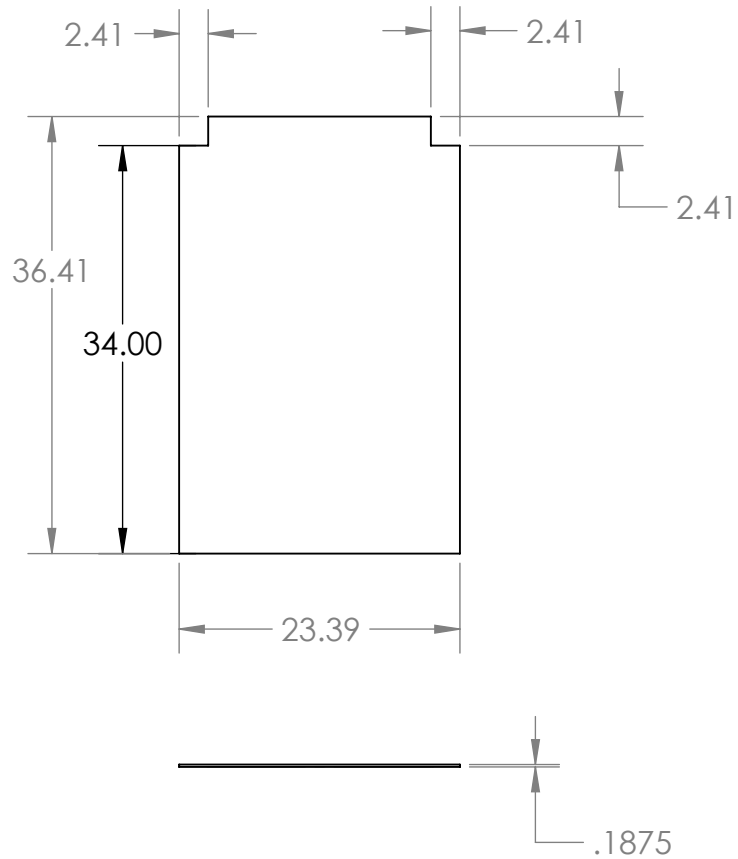
PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012	TITLE:
		TOLERANCES:	CHECKED			
		FRACTIONAL $\pm 1/16$	ENG APPR.			
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.			
		ONE PLACE DECIMAL $\pm .1$	Q.A.			SIZE DWG. NO. REV A 60x30x30-bottom 01
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:			
		THREE PLACE DECIMAL ± 0.030				SCALE: 1:16 WEIGHT: SHEET 6 OF 15
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100				
		MATERIAL				
NEXT ASSY	USED ON	FINISH				
APPLICATION		DO NOT SCALE DRAWING				



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012	
		TOLERANCES:	CHECKED			TITLE:
		FRACTIONAL ± 1/16	ENG APPR.			
		ANGULAR: MACH ±0.5 BEND ±2	MFG APPR.			
		ONE PLACE DECIMAL ±.1	Q.A.			
		TWO PLACE DECIMAL ±.06	COMMENTS:			
		THREE PLACE DECIMAL ±0.030				
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100				SIZE DWG. NO. REV
		MATERIAL				A 60x30x30-Front wall 01
NEXT ASSY	USED ON	FINISH				SCALE: 1:16 WEIGHT: SHEET 7 OF 15
APPLICATION		DO NOT SCALE DRAWING				

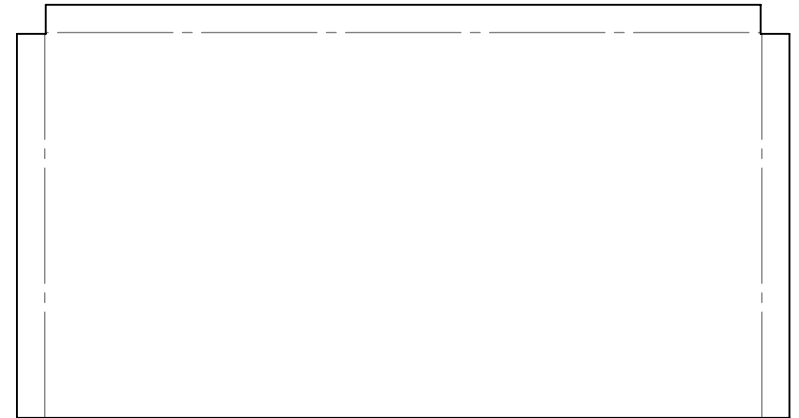
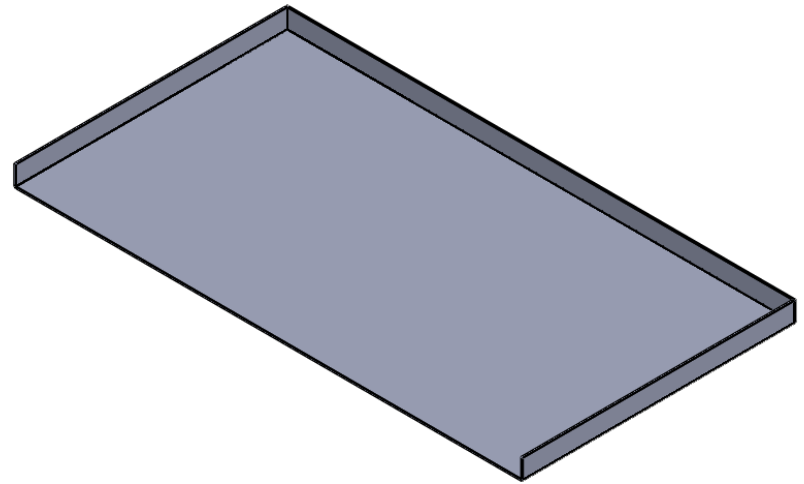
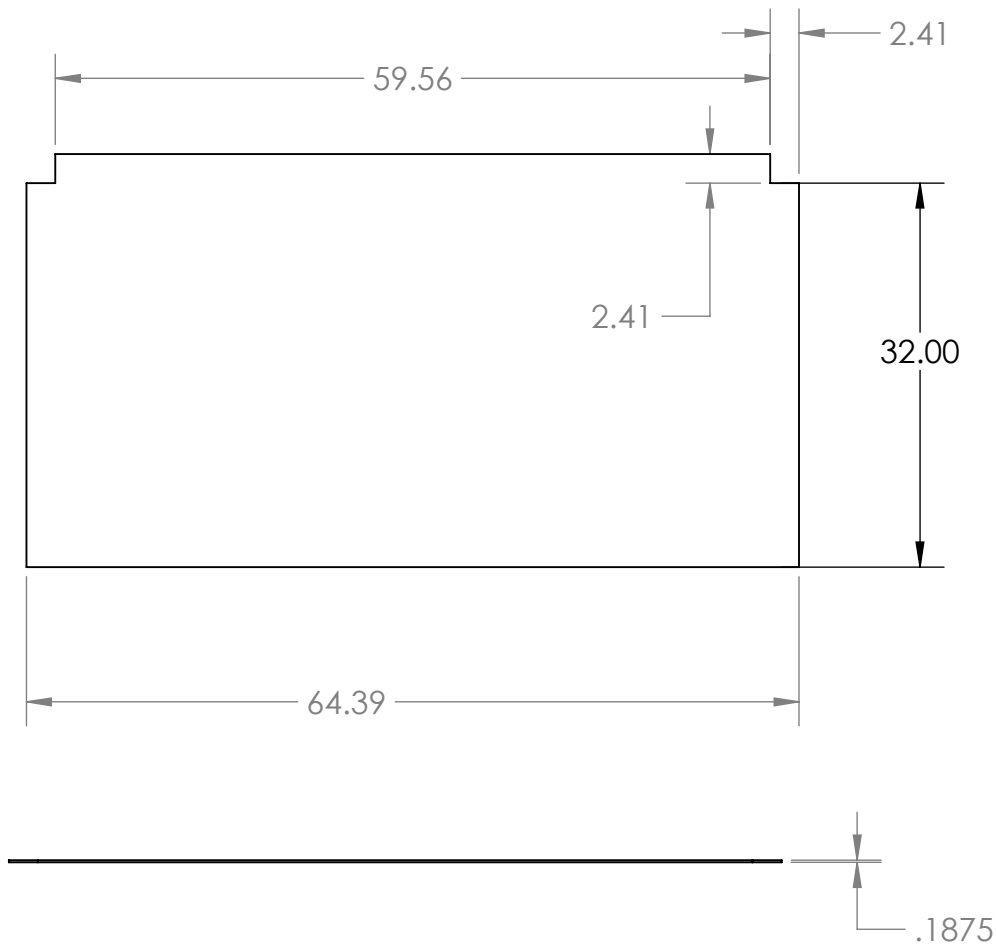


bend 90.00°
Fabricator selects radius of bends



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:		
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012		
		TOLERANCES:		CHECKED			TITLE:	
		FRACTIONAL ± 1/16		ENG APPR.				
		ANGULAR: MACH ± 0.5 BEND ± 2		MFG APPR.				
		ONE PLACE DECIMAL ± .1		Q.A.				
		TWO PLACE DECIMAL ± .06		COMMENTS:				
		THREE PLACE DECIMAL ± 0.030						
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100						
		MATERIAL						
NEXT ASSY	USED ON	FINISH				SIZE	DWG. NO.	REV
APPLICATION		DO NOT SCALE DRAWING				A x30x30-back insulation	ba	01
						SCALE: 1:16	WEIGHT:	SHEET 8 OF 15



bend 90.00°
Fabricator selects radius of bends

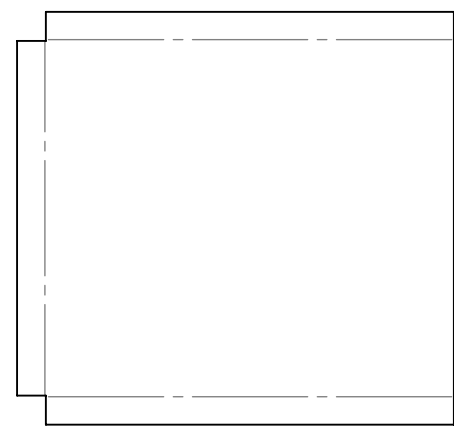
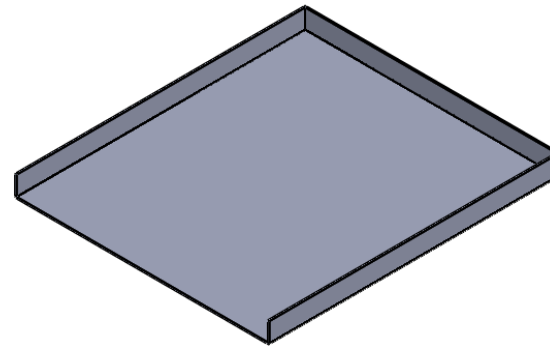
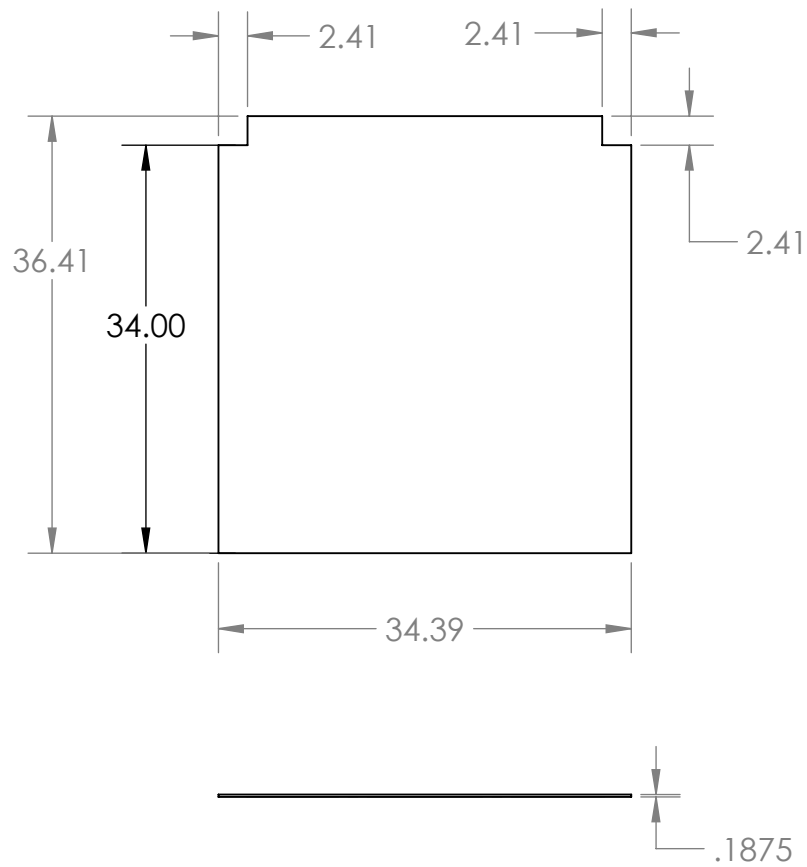


PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:
		DIMENSIONS ARE IN INCHES
		TOLERANCES:
		FRACTIONAL ± 1/16
		ANGULAR: MACH ±0.5 BEND ±2
		ONE PLACE DECIMAL ±.1
		TWO PLACE DECIMAL ±.06
		THREE PLACE DECIMAL ±0.030
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100
		MATERIAL
		FINISH
NEXT ASSY	USED ON	
APPLICATION		DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	HRZ	11/28/2012
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

STOCK SIZE:		
TITLE:		
SIZE	DWG. NO.	REV
A	30x30-Side insulation bays	01
SCALE: 1:16	WEIGHT:	SHEET 9 OF 15



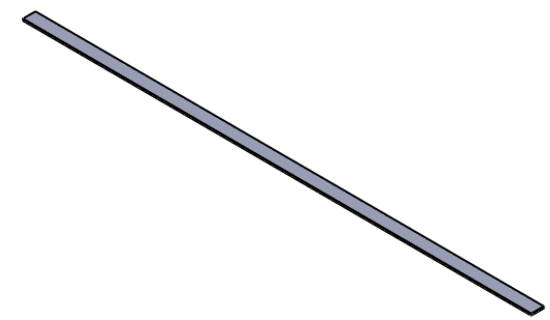
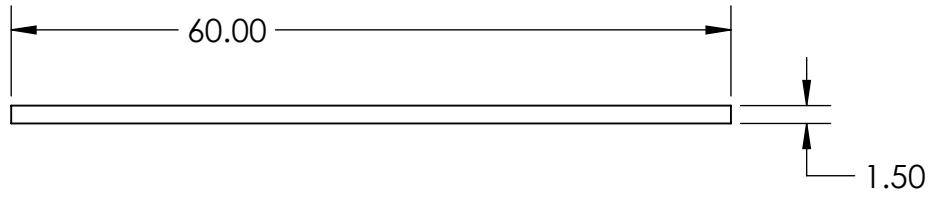
bend 90.00°
Fabricator selects radius of bends



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012
		TOLERANCES:	CHECKED		
		FRACTIONAL ± 1/16	ENG APPR.		
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.		
		ONE PLACE DECIMAL ± .1	Q.A.		
		TWO PLACE DECIMAL ± .06	COMMENTS:		
		THREE PLACE DECIMAL ± 0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100			
		MATERIAL			
		FINISH			
NEXT ASSY	USED ON				
APPLICATION		DO NOT SCALE DRAWING			

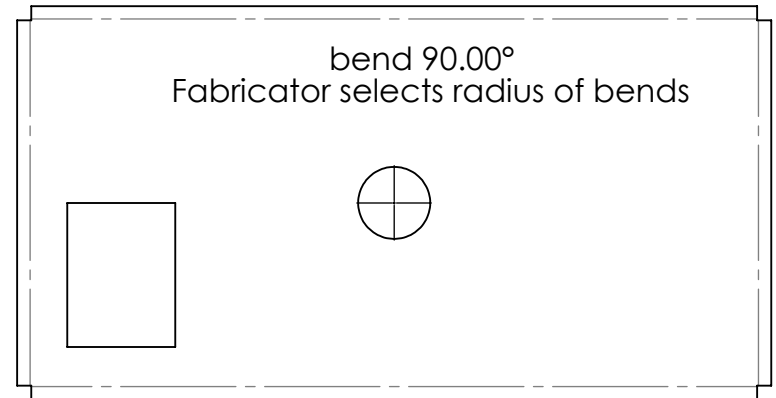
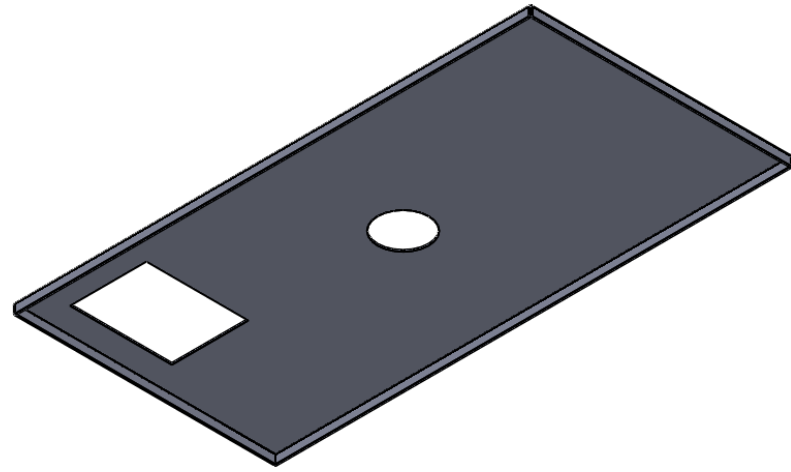
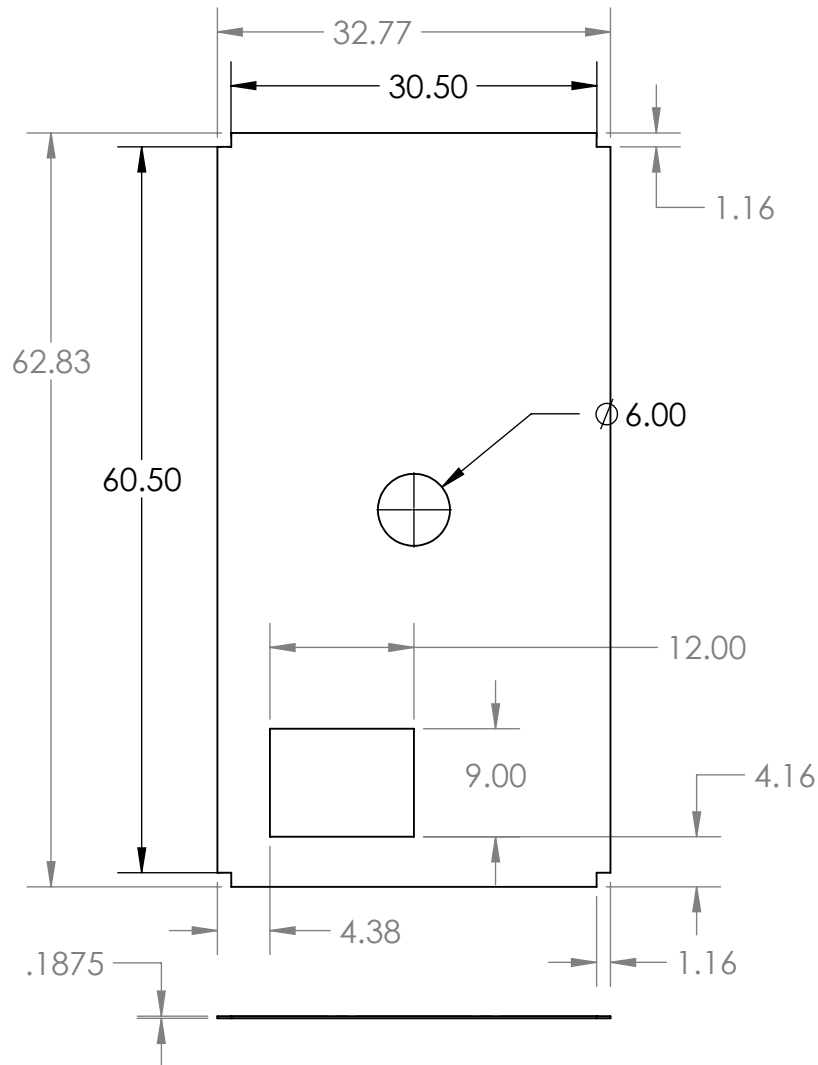
TITLE:		
SIZE	DWG. NO.	REV
A	30x30-Front insulation	ba01
SCALE: 1:16	WEIGHT:	SHEET 10 OF 15



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

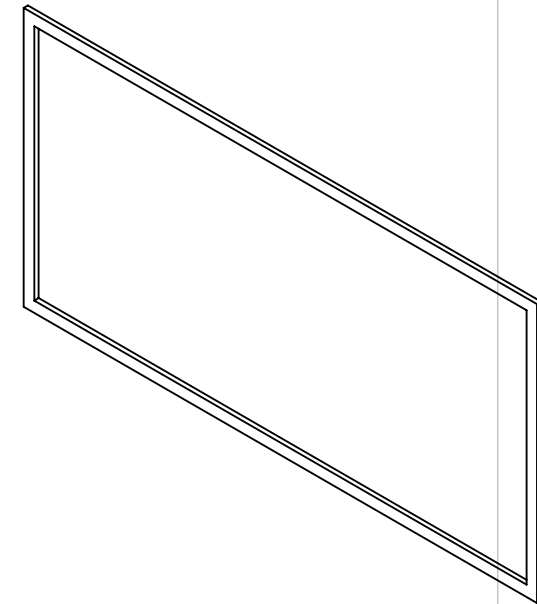
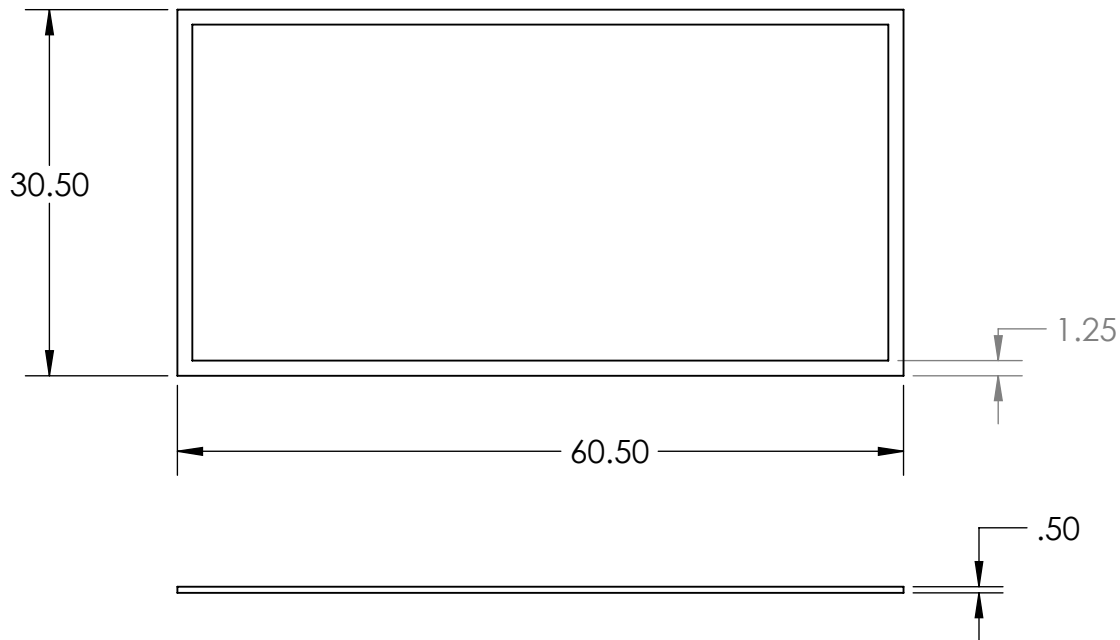
		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012
		TOLERANCES:	CHECKED		
		FRACTIONAL $\pm 1/16$	ENG APPR.		
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.		
		ONE PLACE DECIMAL $\pm .1$	Q.A.		
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:		
		THREE PLACE DECIMAL ± 0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100			
		MATERIAL			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

SIZE	DWG. NO.	REV
A	60x30x30-Hinge plate	01
SCALE: 1:16	WEIGHT:	SHEET 11 OF 15



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

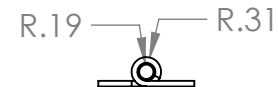
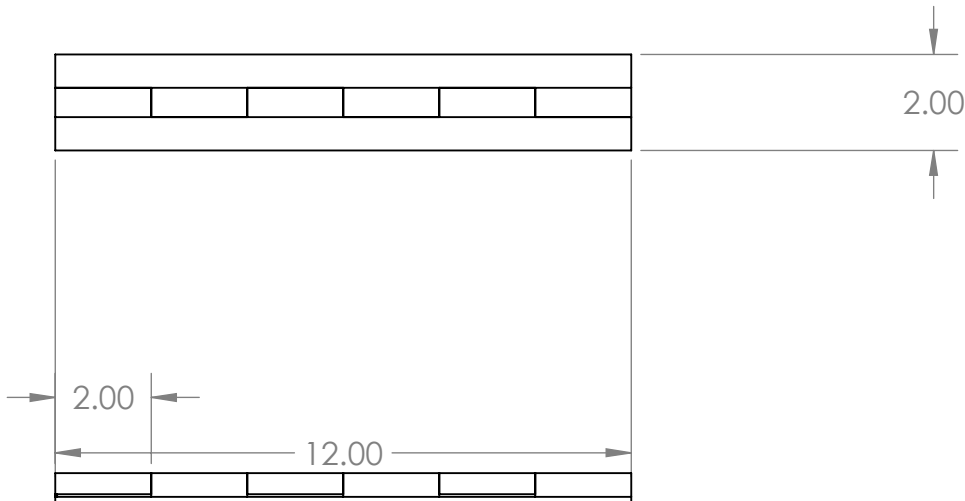
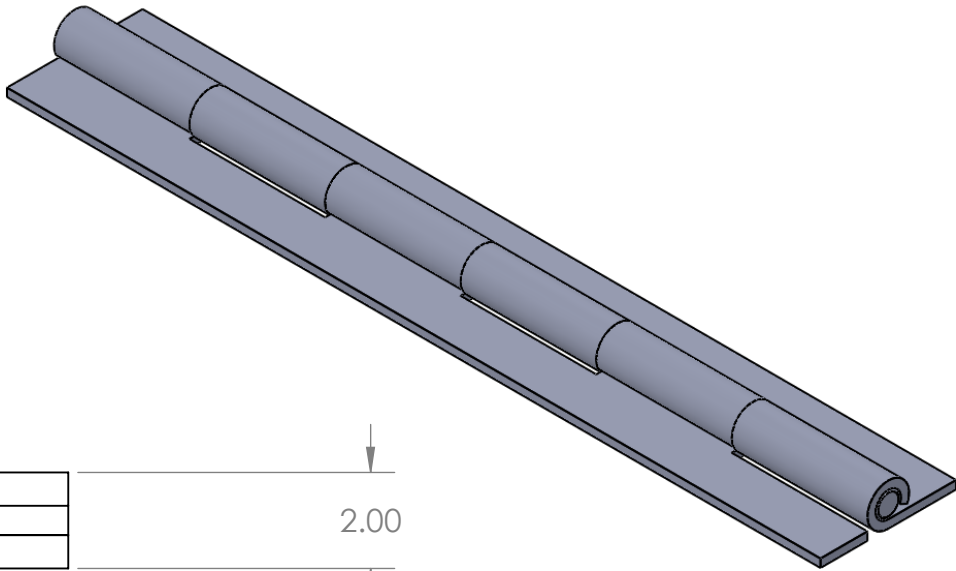
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012
		TOLERANCES:		CHECKED		TITLE:
		FRACTIONAL $\pm 1/16$		ENG APPR.		
		ANGULAR: MACH ± 0.5 BEND ± 2		MFG APPR.		
		ONE PLACE DECIMAL $\pm .1$		Q.A.		
		TWO PLACE DECIMAL $\pm .06$		COMMENTS:		
		THREE PLACE DECIMAL ± 0.030				
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100				
		MATERIAL				SIZE DWG. NO. REV
		FINISH				A 60x30x30-Lid 01
NEXT ASSY	USED ON					SCALE: 1:16 WEIGHT: SHEET 12 OF 15
APPLICATION		DO NOT SCALE DRAWING				



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

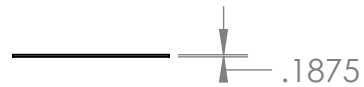
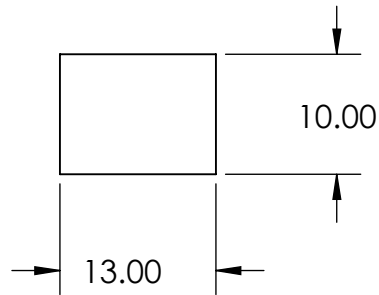
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012
		TOLERANCES:		CHECKED		
		FRACTIONAL $\pm 1/16$		ENG APPR.		
		ANGULAR: MACH ± 0.5 BEND ± 2		MFG APPR.		
		ONE PLACE DECIMAL $\pm .1$		Q.A.		
		TWO PLACE DECIMAL $\pm .06$		COMMENTS:		
		THREE PLACE DECIMAL ± 0.030				
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100				
		MATERIAL				
		FINISH				
NEXT ASSY	USED ON					
APPLICATION		DO NOT SCALE DRAWING				

TITLE:		
SIZE	DWG. NO.	REV
A	60x30x30-foam seal	01
SCALE: 1:16	WEIGHT:	SHEET 13 OF 15



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

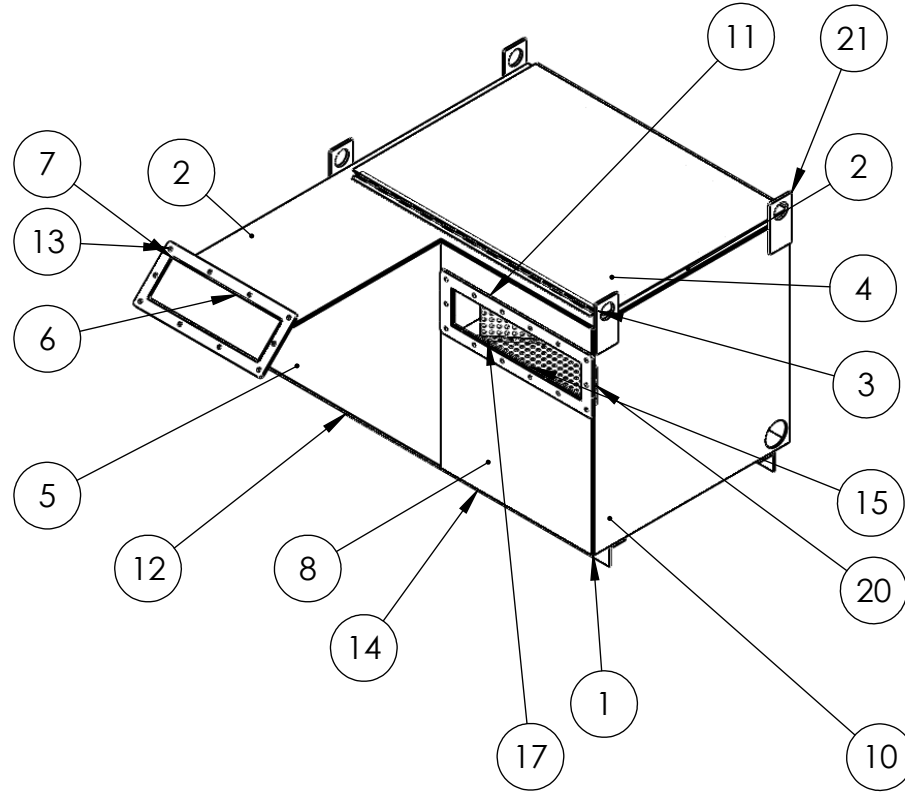
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012	
		TOLERANCES:		CHECKED			TITLE:
		FRACTIONAL $\pm 1/16$		ENG APPR.			
		ANGULAR: MACH ± 0.5 BEND ± 2		MFG APPR.			
		ONE PLACE DECIMAL $\pm .1$		Q.A.			
		TWO PLACE DECIMAL $\pm .06$		COMMENTS:			
		THREE PLACE DECIMAL ± 0.030					
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					
		MATERIAL					
		FINISH					
NEXT ASSY	USED ON					SIZE	DWG. NO.
APPLICATION		DO NOT SCALE DRAWING				A	Neal piano hinge
							REV
							01
						SCALE: 1:4	WEIGHT:
							SHEET 14 OF 15



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012	
		TOLERANCES:		CHECKED			TITLE:
		FRACTIONAL $\pm 1/16$		ENG APPR.			
		ANGULAR: MACH ± 0.5 BEND ± 2		MFG APPR.			
		ONE PLACE DECIMAL $\pm .1$		Q.A.			
		TWO PLACE DECIMAL $\pm .06$		COMMENTS:			
		THREE PLACE DECIMAL ± 0.030					
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					SIZE DWG. NO. REV
		MATERIAL					A 60x30x30-Hatch 01
NEXT ASSY	USED ON	FINISH					SCALE: 1:16 WEIGHT: SHEET 15 OF 15
APPLICATION		DO NOT SCALE DRAWING					

ITEM NO.	PART NUMBER	QTY.
1	Rest_Box_001-2	1
2	Rest_Box_001-4	1
3	piano_hinge	1
4	Rest_Box_001-5	1
5	Rest_Box_001-7	1
6	Rest_Box_001-6	1
7	Rest_Box_001-3	1
8	Rest_Box_001-10	1
9	Rest_Box_001-11	1
10	Rest_Box_001-8	1
11	Flange_002	1
12	Rest_Box_001-13	1
13	Flange_005	1
14	Str_brac_010	2
15	FYKE_003-1	1
16	FYKE_003-3	1
17	FYKE_003-4	1
18	FYKE_003-2	1
19	FYKE_003-5	1
20	FYKE_003-6	1
21	Lift_Plate	4

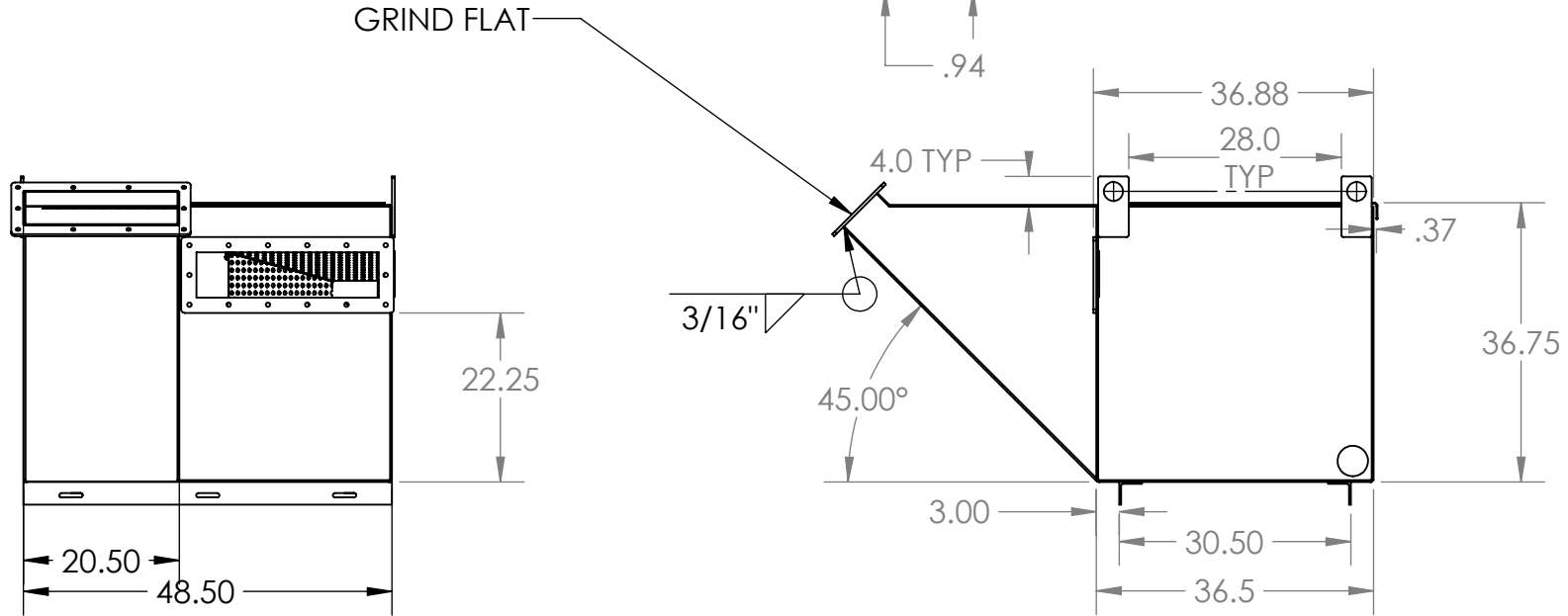


PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:
DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012
TOLERANCES:		CHECKED		
FRACTIONAL $\pm 1/16$		ENG APPR.		
ANGULAR: MACH ± 0.5 BEND ± 2		MFG APPR.		
ONE PLACE DECIMAL $\pm .1$		Q.A.		
TWO PLACE DECIMAL $\pm .06$		COMMENTS:		
THREE PLACE DECIMAL ± 0.030				
INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100				
MATERIAL				
FINISH				
NEXT ASSY	USED ON			
APPLICATION				
DO NOT SCALE DRAWING				

TITLE:		
<h1>REST BOX #1</h1>		
SIZE	DWG. NO.	REV
A	Sheetmetal_Rest_Box_001	01
SCALE: 1:25	WEIGHT:	SHEET 1 OF 17

3/16" FILLET WELD UNLESS OTHERWISE SPECIFIED



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012
		TOLERANCES:	CHECKED		TITLE:
		FRACTIONAL ± 1/16	ENG APPR.		REST BOX #1
		ANGULAR: MACH ±0.5 BEND ±2	MFG APPR.		
		ONE PLACE DECIMAL ±.1	Q.A.		SIZE DWG. NO. REV
		TWO PLACE DECIMAL ±.06	COMMENTS:		A Sheetmetal_Rest_Box_001 01
		THREE PLACE DECIMAL ±0.030			SCALE: 1:25 WEIGHT: SHEET 2 OF 17
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100			
		MATERIAL			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

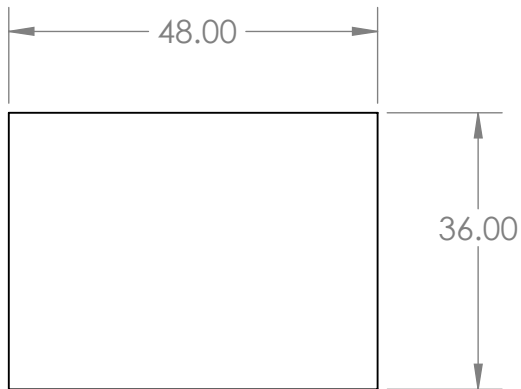
NOTE:
CONTINUOUS ALUMINUM HINGE
CUT TO LENGTH

PIN: ϕ .375
GAUGE: 0.120"
OPEN WIDTH : 2.00"
KNUCKLE : 2.00"



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

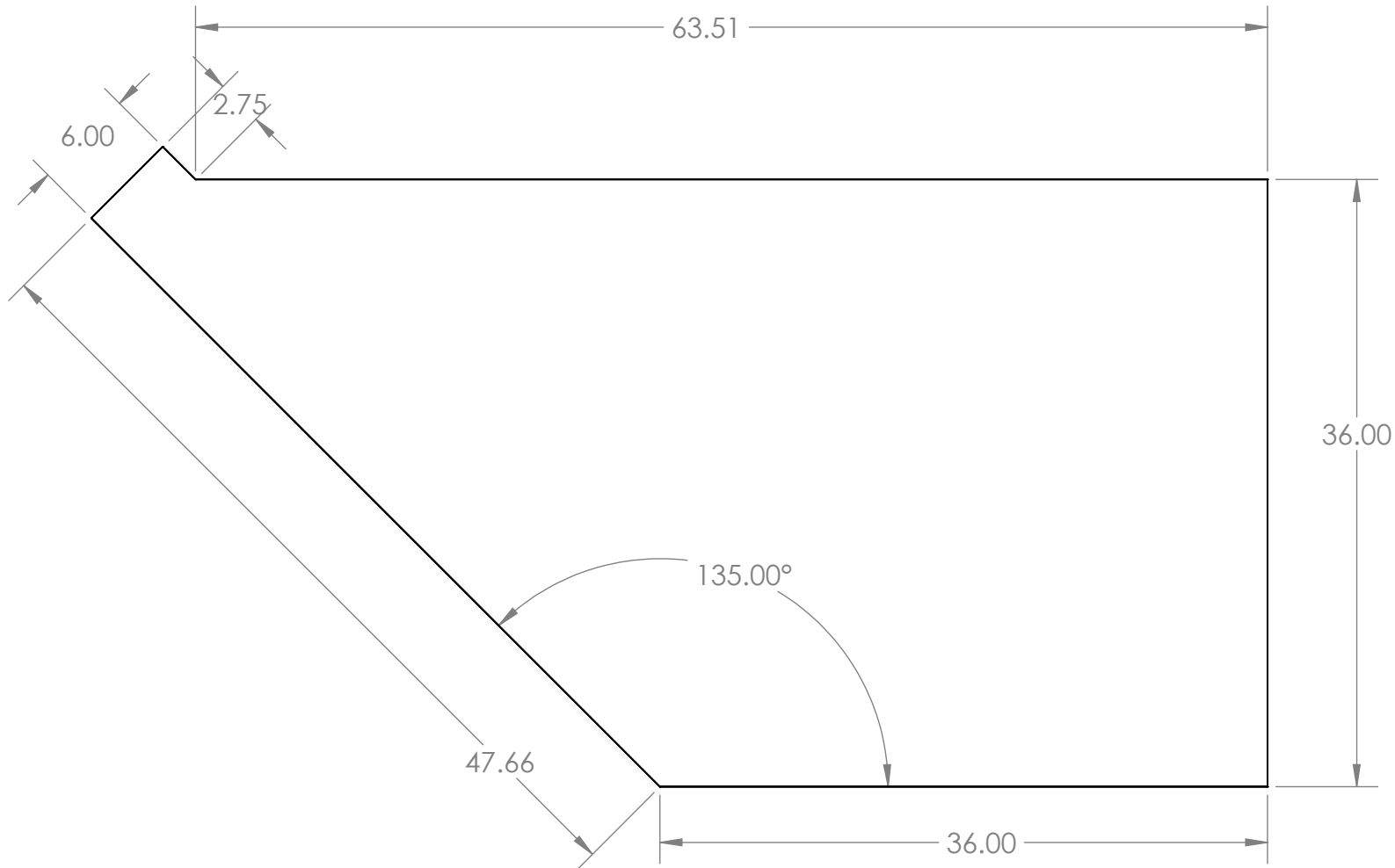
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ		TITLE:	
		TOLERANCES:	CHECKED				
		FRACTIONAL \pm 1/16	ENG APPR.				
		ANGULAR: MACH \pm 0.5 BEND \pm 2	MFG APPR.				
		ONE PLACE DECIMAL \pm .1	Q.A.				
		TWO PLACE DECIMAL \pm .06	COMMENTS:				
		THREE PLACE DECIMAL \pm 0.030				SIZE	DWG. NO.
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100				A	
		MATERIAL					REV
		FINISH					01
NEXT ASSY	USED ON					SCALE: 1:25	WEIGHT:
APPLICATION		DO NOT SCALE DRAWING					SHEET 3 OF 17



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012
		TOLERANCES:	CHECKED		
		FRACTIONAL $\pm 1/16$	ENG APPR.		
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.		
		ONE PLACE DECIMAL $\pm .1$	Q.A.		
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:		
		THREE PLACE DECIMAL ± 0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100			
		MATERIAL			
		5052-H32			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

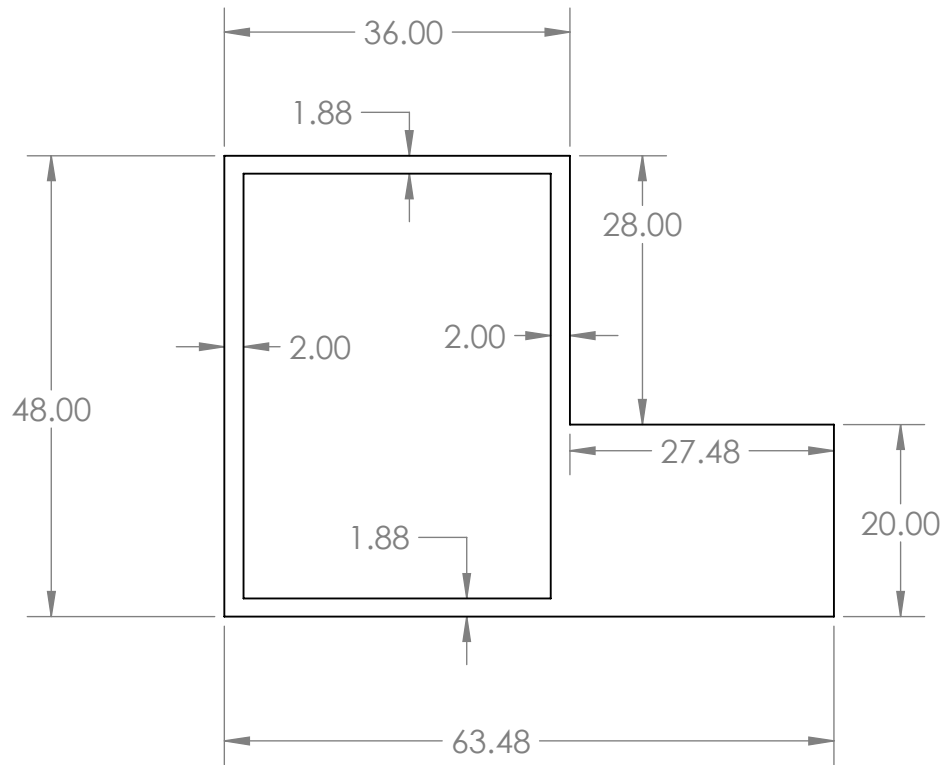
STOCK SIZE:		0.25
TITLE:		
REST BOX BASE		
SIZE	DWG. NO.	REV
A	Rest_Box_001-2	01
SCALE: 1:25	WEIGHT:	SHEET 4 OF 17



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

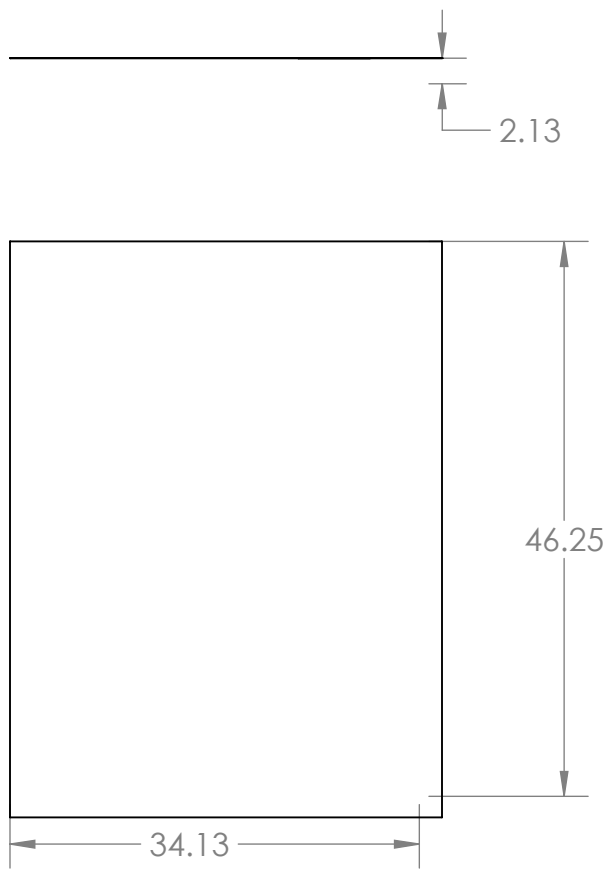
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012
		TOLERANCES:	CHECKED		
		FRACTIONAL ± 1/16	ENG APPR.		
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.		
		ONE PLACE DECIMAL ± .1			
		TWO PLACE DECIMAL ± .06			
		THREE PLACE DECIMAL ± 0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100	Q.A.		
		MATERIAL	COMMENTS:		
		5052-H32			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

STOCK SIZE:			0.1875
TITLE:			
REST BOX WALL 3/4			
SIZE	DWG. NO.	REV	
A	Rest_Box_001-3	01	
SCALE: 1:10	WEIGHT:	SHEET 5 OF 17	



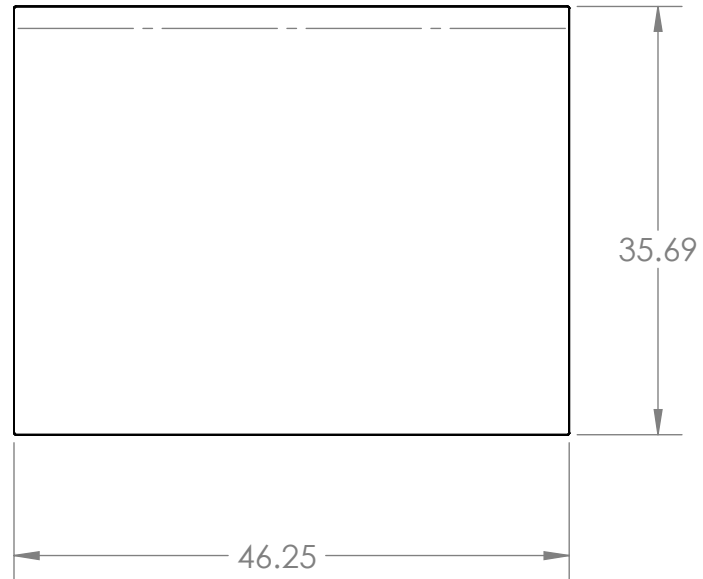
PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:	0.25		
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012	TITLE:		
		TOLERANCES:	CHECKED			REST BOX LID-1		
		FRACTIONAL $\pm 1/16$	ENG APPR.			SIZE	DWG. NO.	REV
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.			A	Rest_Box_001-4	01
		ONE PLACE DECIMAL $\pm .1$	Q.A.			SCALE: 1:20	WEIGHT:	SHEET 6 OF 17
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:					
		THREE PLACE DECIMAL ± 0.030						
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100						
		MATERIAL						
		5052-H32						
	NEXT ASSY	USED ON						
	APPLICATION	DO NOT SCALE DRAWING						



FLAT PATTERN

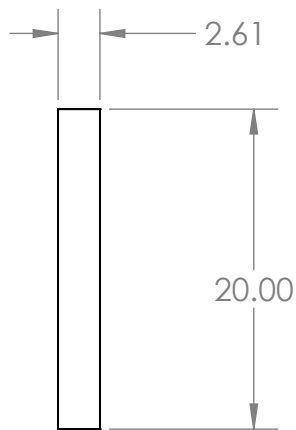
DOWN 90.00° R .25



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

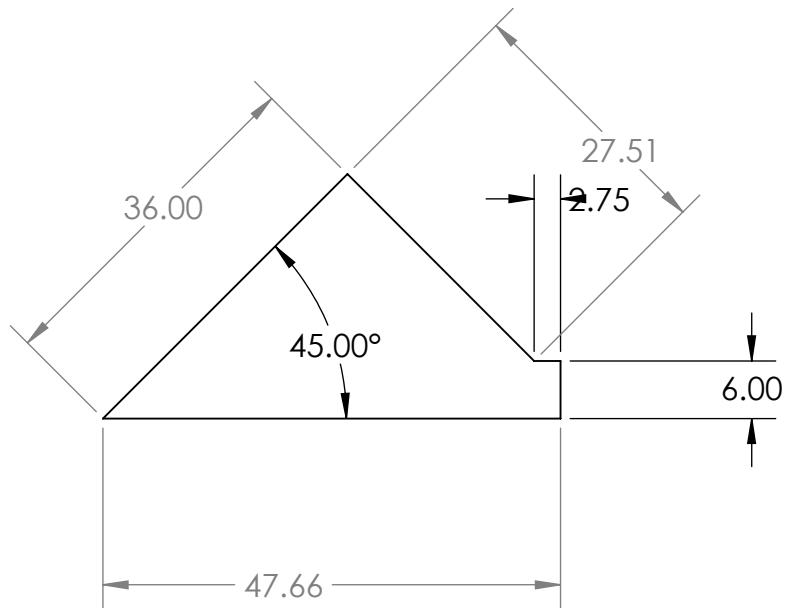
		UNLESS OTHERWISE SPECIFIED:	NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ
		TOLERANCES:	CHECKED	11/28/2012
		FRACTIONAL ± 1/16	ENG APPR.	
		ANGULAR: MACH ±0.5 BEND ±2	MFG APPR.	
		ONE PLACE DECIMAL ±.1	Q.A.	
		TWO PLACE DECIMAL ±.06	COMMENTS:	
		THREE PLACE DECIMAL ±0.030		
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100		
		MATERIAL		
		AL 5052-H32		
NEXT ASSY	USED ON	FINISH		
APPLICATION		DO NOT SCALE DRAWING		

STOCK SIZE:			0.125
TITLE:			
REST BOX LID			
SIZE	DWG. NO.	REV	
A	Rest_Box_001-5	01	
SCALE: 1:20	WEIGHT:	SHEET 7 OF 17	



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

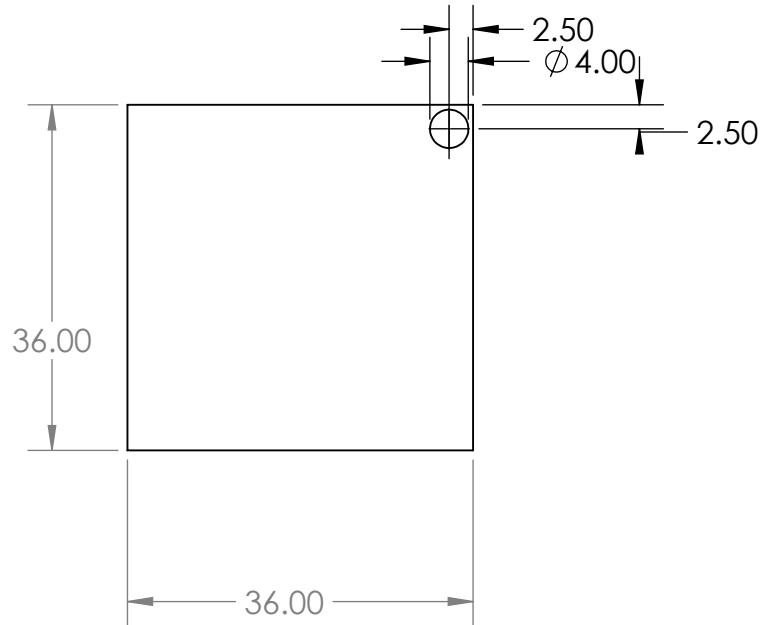
		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012	0.1875
		TOLERANCES:	CHECKED			TITLE: REST BOX LID-2
		FRACTIONAL $\pm 1/16$	ENG APPR.			
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.			
		ONE PLACE DECIMAL $\pm .1$	Q.A.			SIZE DWG. NO. REV A Rest_Box_001-6 01
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:			
		THREE PLACE DECIMAL ± 0.030				SCALE: 1:20 WEIGHT: SHEET 8 OF 17
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100				
		MATERIAL				
		AL 5052-H32				
		FINISH				
NEXT ASSY	USED ON					
APPLICATION		DO NOT SCALE DRAWING				



PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

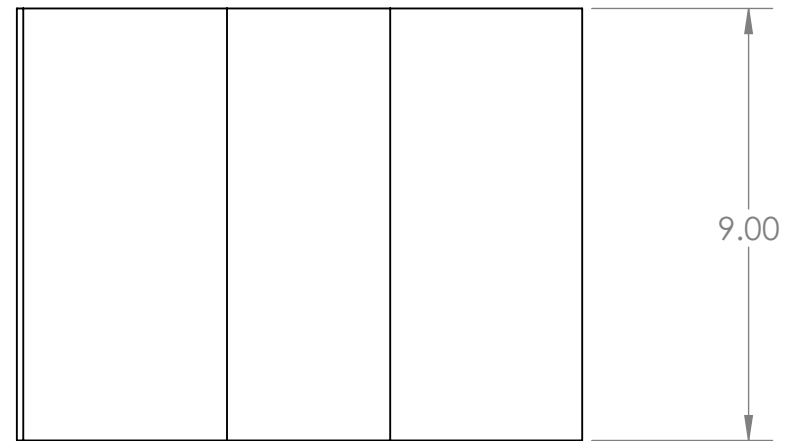
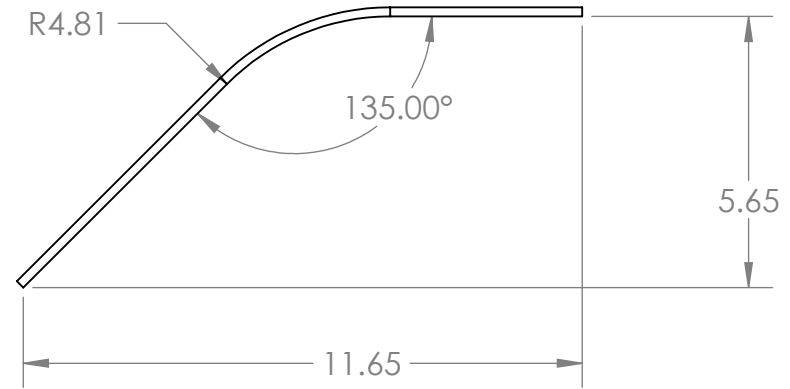
		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012	TITLE: EXIT RAMP WALL
		TOLERANCES:	CHECKED			
		FRACTIONAL ± 1/16	ENG APPR.			
		ANGULAR: MACH ±0.5 BEND ±2	MFG APPR.			
		ONE PLACE DECIMAL ±.1	Q.A.			
		TWO PLACE DECIMAL ±.06	COMMENTS:			SIZE
		THREE PLACE DECIMAL ±0.030				DWG. NO.
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100				A
		MATERIAL				Rest_Box_001-7
		FINISH				REV
NEXT ASSY	USED ON					01
APPLICATION		DO NOT SCALE DRAWING				SCALE: 1:20
						WEIGHT:
						SHEET 9 OF 17



PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

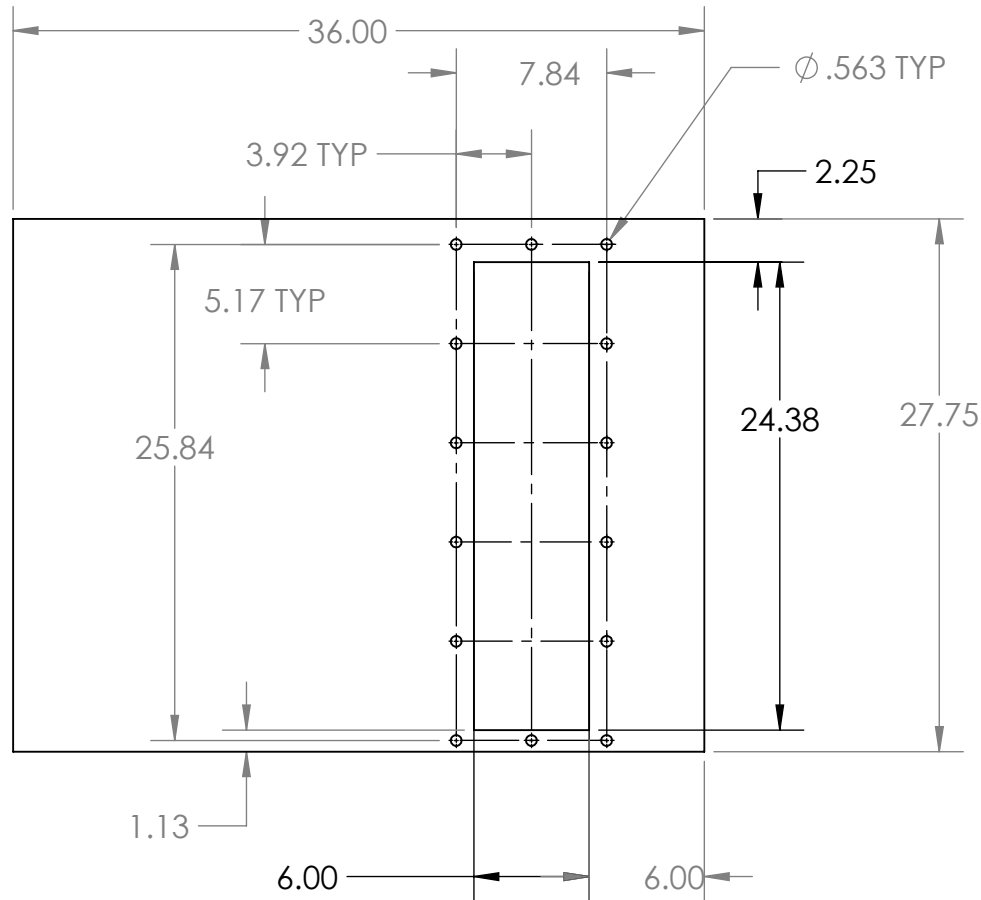
		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012	TITLE: REST BOX WALL 1/4
		TOLERANCES:	CHECKED			
		FRACTIONAL $\pm 1/16$	ENG APPR.			
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.			
		ONE PLACE DECIMAL $\pm .1$	Q.A.			
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:			SIZE
		THREE PLACE DECIMAL ± 0.030				DWG. NO.
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100				A
		MATERIAL				Rest_Box_001-8
		FINISH				REV
NEXT ASSY	USED ON					01
APPLICATION		DO NOT SCALE DRAWING				SCALE: 1:20
						WEIGHT:
						SHEET 10 OF 17



PROPRIETARY AND CONFIDENTIAL

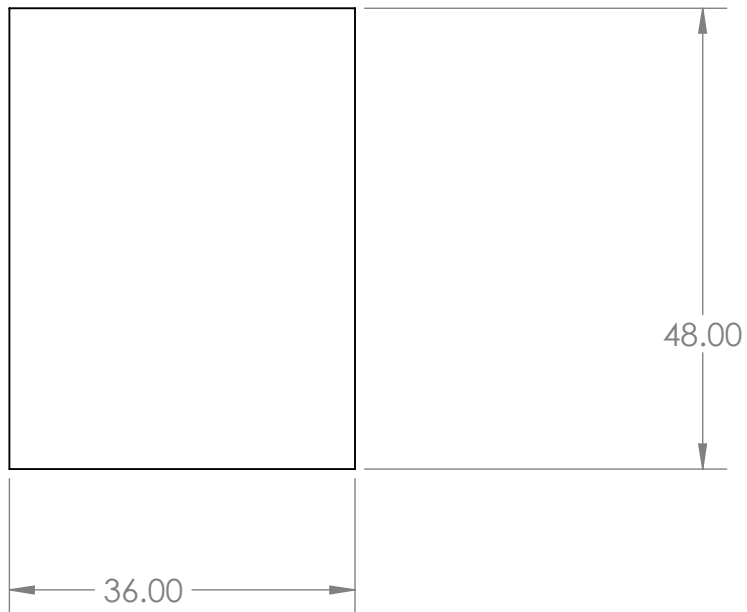
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012	
		TOLERANCES:		CHECKED			TITLE:
		FRACTIONAL $\pm 1/16$		ENG APPR.			EXIT RAMP
		ANGULAR: MACH ± 0.5 BEND ± 2		MFG APPR.			
		ONE PLACE DECIMAL $\pm .1$		Q.A.			
		TWO PLACE DECIMAL $\pm .06$		COMMENTS:			
		THREE PLACE DECIMAL ± 0.030					
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					SIZE DWG. NO. REV
		MATERIAL					A Rest_Box_001-9 01
NEXT ASSY	USED ON	FINISH					SCALE: 1:4 WEIGHT: SHEET 11 OF 17
APPLICATION		DO NOT SCALE DRAWING					



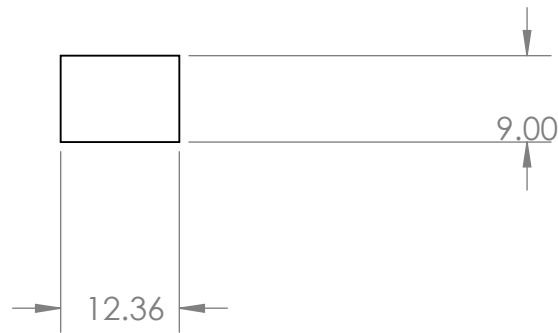
PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012
		TOLERANCES:	CHECKED		TITLE:
		FRACTIONAL $\pm 1/16$	ENG APPR.		REST BOX WALL 4/4
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.		
		ONE PLACE DECIMAL $\pm .1$	Q.A.		
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:		
		THREE PLACE DECIMAL ± 0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100			SIZE DWG. NO. REV
		MATERIAL			A Rest_Box_001-10 01
NEXT ASSY	USED ON	FINISH			SCALE: 1:10 WEIGHT: SHEET 12 OF 17
APPLICATION		DO NOT SCALE DRAWING			



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

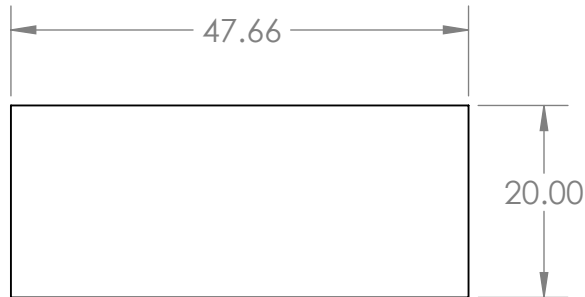
		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012	TITLE: REST BOX WALL 2/4
		TOLERANCES:	CHECKED			
		FRACTIONAL $\pm 1/16$	ENG APPR.			
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.			
		ONE PLACE DECIMAL $\pm .1$	Q.A.			
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:			SIZE DWG. NO. REV
		THREE PLACE DECIMAL ± 0.030				A Rest_Box_001-11 01
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100				SCALE: 1:20 WEIGHT: SHEET 13 OF 17
		MATERIAL				
NEXT ASSY	USED ON	FINISH				
APPLICATION		DO NOT SCALE DRAWING				



PROPRIETARY AND CONFIDENTIAL

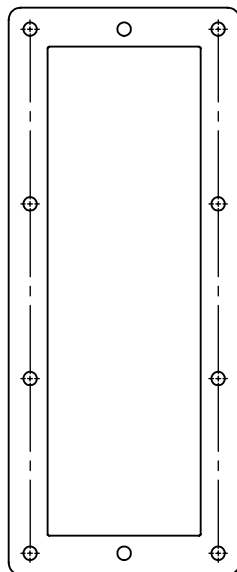
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012	
		TOLERANCES:	CHECKED			TITLE:
		FRACTIONAL $\pm 1/16$	ENG APPR.			EXIT RAMP LID
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.			
		ONE PLACE DECIMAL $\pm .1$	Q.A.			
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:			
		THREE PLACE DECIMAL ± 0.030				
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100				SIZE DWG. NO. REV
		MATERIAL				A Rest_Box_001-12 01
NEXT ASSY	USED ON	FINISH				SCALE: 1:20 WEIGHT: SHEET 14 OF 17
APPLICATION		DO NOT SCALE DRAWING				



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

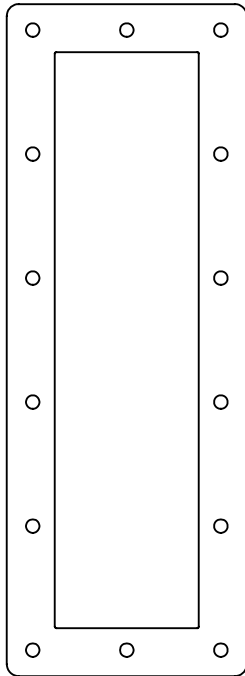
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE: 0.25	
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012	TITLE: EXIT RAMP
		TOLERANCES:		CHECKED			
		FRACTIONAL ± 1/16		ENG APPR.			
		ANGULAR: MACH ±0.5 BEND ±2		MFG APPR.			
		ONE PLACE DECIMAL ±.1		Q.A.			SIZE DWG. NO. REV A Rest_Box_001-13 01
		TWO PLACE DECIMAL ±.06		COMMENTS:			
		THREE PLACE DECIMAL ±0.030					SCALE: 1:20 WEIGHT: SHEET 15 OF 17
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					
		MATERIAL					
		5052-H32					
NEXT ASSY		USED ON					
APPLICATION		DO NOT SCALE DRAWING					



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012
		TOLERANCES:	CHECKED		
		FRACTIONAL $\pm 1/16$	ENG APPR.		
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.		
		ONE PLACE DECIMAL $\pm .1$	Q.A.		
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:		
		THREE PLACE DECIMAL ± 0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100			
		MATERIAL			
		5052-H32			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

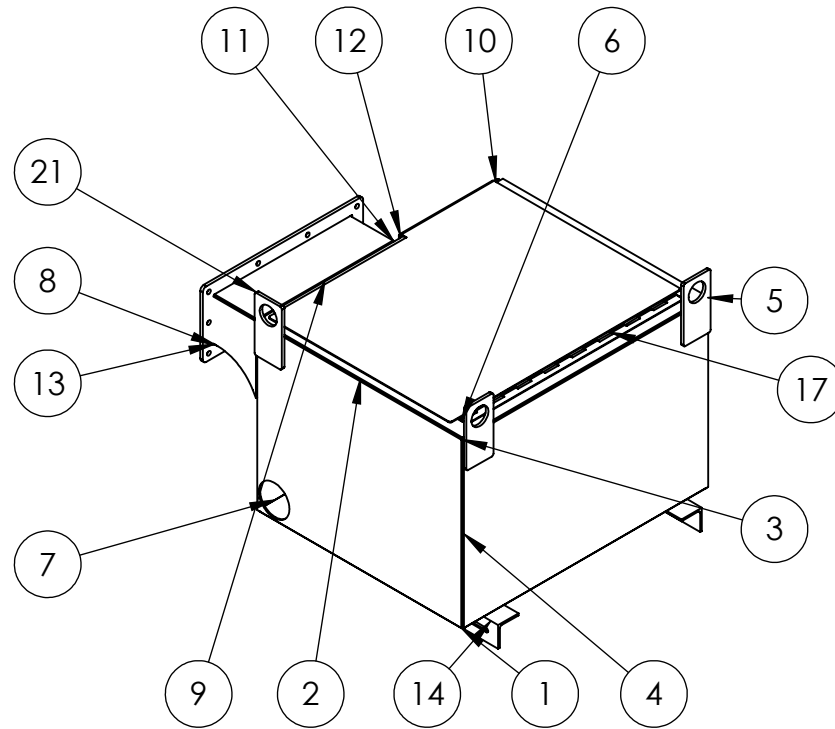
STOCK SIZE:		0.375
TITLE:		
Flange, 21"x8"		
SIZE	DWG. NO.	REV
A	Flange_005	01
SCALE: 1:8	WEIGHT:	SHEET 16 OF 17




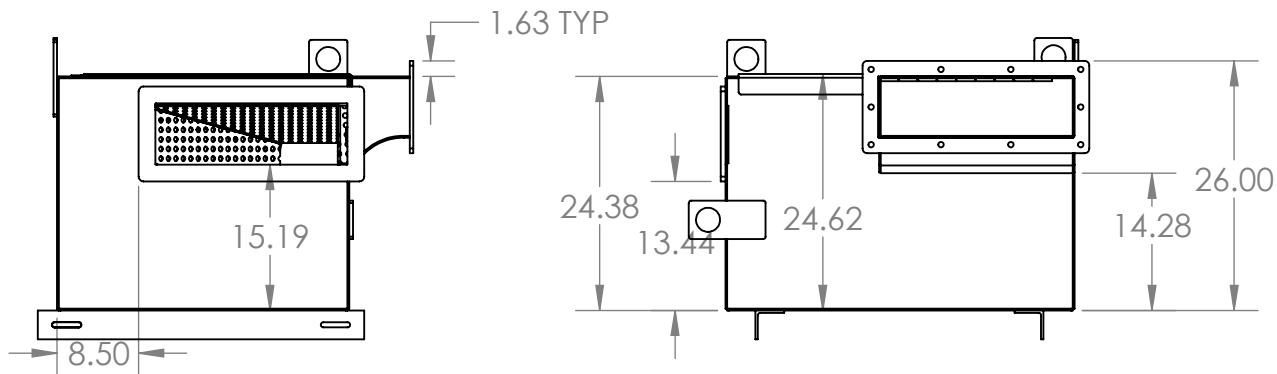
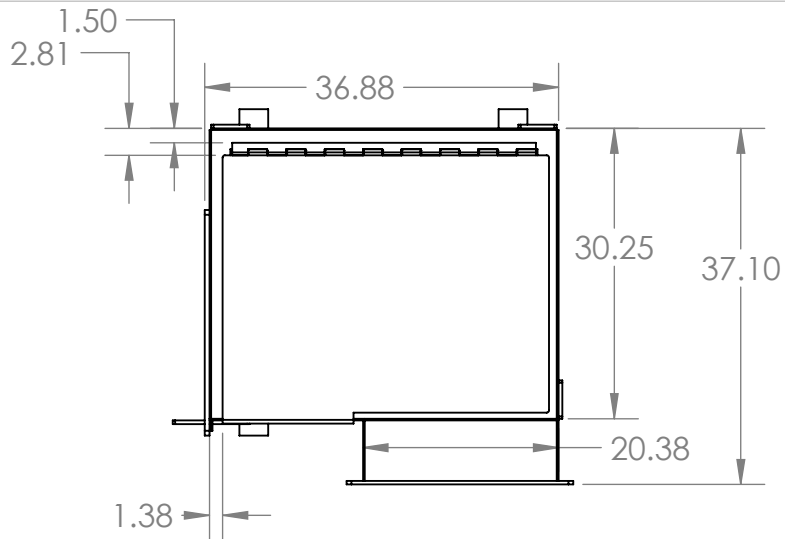
PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:			
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012	0.375		
		TOLERANCES:		CHECKED			TITLE: 24" Wide Flange		
		FRACTIONAL ± 1/16		ENG APPR.					
		ANGULAR: MACH ±0.5 BEND ±2		MFG APPR.					
		ONE PLACE DECIMAL ±.1		Q.A.			SIZE DWG. NO. REV A Flange_002 01		
		TWO PLACE DECIMAL ±.06		COMMENTS:					
		THREE PLACE DECIMAL ±0.030					SCALE: 1:8	WEIGHT:	SHEET 17 OF 17
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100							
		MATERIAL							
		5052-H32							
NEXT ASSY		USED ON							
APPLICATION		DO NOT SCALE DRAWING							

ITEM NO.	PART NUMBER	QTY.
1	Rest_Box_002-2	1
2	Rest_Box_002-4	1
3	Rest_Box_002-3	1
4	Rest_Box_002-11	1
5	Rest_Box_002-8	1
6	CA12520096_32in_cut	1
7	Rest_Box_002-12	1
8	Rest_Box_003-13	1
9	Rest_Box_002-14	1
10	Flange_005-RB2	1
11	Tran_arc_sidewall_03	2
12	REST_BOX_002-1	1
13	Flange_005	1
14	Str_spacer_09	2
15	FYKE_003-1	1
16	FYKE_003-3	1
17	FYKE_003-4	1
18	FYKE_003-2	1
19	FYKE_003-5	1
20	FYKE_003-6	1
21	Lift_Plate	4



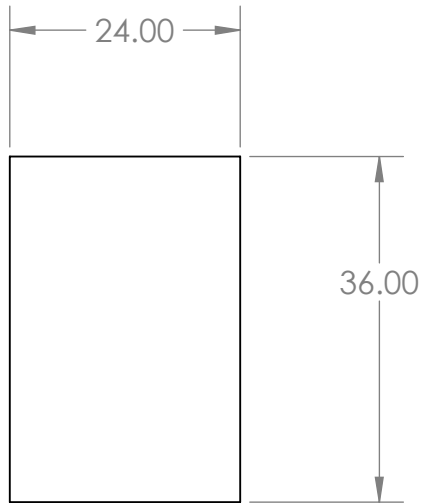
 <p>CENTER FOR ECOHYDRAULICS RESEARCH</p> <p>PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.</p>			UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
			DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012	TITLE: REST BOX #1
			TOLERANCES:		CHECKED			
			FRACTIONAL ± 1/16		ENG APPR.			
			ANGULAR: MACH ±0.5 BEND ±2		MFG APPR.			
		ONE PLACE DECIMAL ±.1		Q.A.				
		TWO PLACE DECIMAL ±.06		COMMENTS:				
		THREE PLACE DECIMAL ±0.030						
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100						
		MATERIAL						
		FINISH						
	NEXT ASSY	USED ON					SIZE DWG. NO. REV	
							A Sheetmetal_Rest_Box_002 01	
	APPLICATION	DO NOT SCALE DRAWING					SCALE: 1:20 WEIGHT: SHEET 1 OF 10	



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

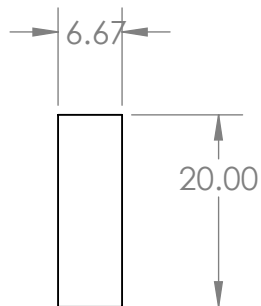
		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012
		TOLERANCES:	CHECKED		
		FRACTIONAL $\pm 1/16$	ENG APPR.		
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.		
		ONE PLACE DECIMAL $\pm .1$	Q.A.		
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:		
		THREE PLACE DECIMAL ± 0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100			
		MATERIAL			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

TITLE:		
REST BOX #1		
SIZE	DWG. NO.	REV
A	Sheetmetal_Rest_Box_002	01
SCALE: 1:20	WEIGHT:	SHEET 2 OF 10



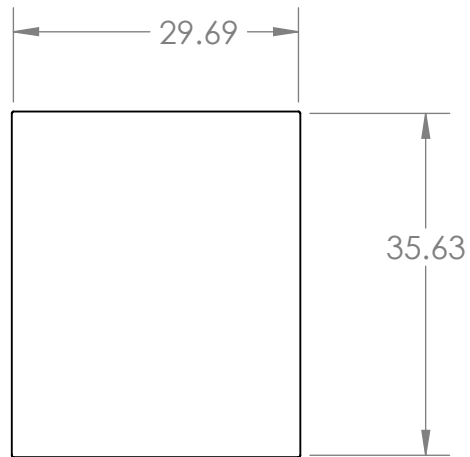
PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012	
		TOLERANCES:	CHECKED			TITLE:
		FRACTIONAL $\pm 1/16$	ENG APPR.			REST BOX WALL 2/4
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.			
		ONE PLACE DECIMAL $\pm .1$	Q.A.			
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:			
		THREE PLACE DECIMAL ± 0.030				
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100				SIZE DWG. NO. REV
		MATERIAL				A Rest_Box_002-11 01
NEXT ASSY	USED ON	FINISH				SCALE: 1:20 WEIGHT: SHEET 3 OF 10
APPLICATION		DO NOT SCALE DRAWING				



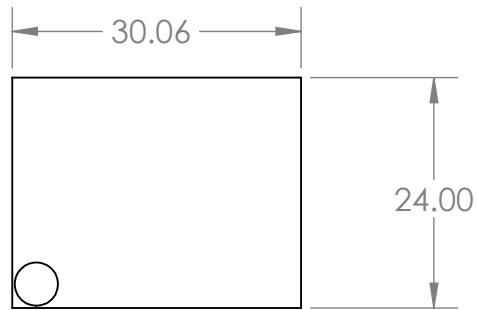
PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012	
		TOLERANCES:	CHECKED			TITLE:
		FRACTIONAL $\pm 1/16$	ENG APPR.			EXIT RAMP LID
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.			
		ONE PLACE DECIMAL $\pm .1$	Q.A.			
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:			
		THREE PLACE DECIMAL ± 0.030				
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100				SIZE DWG. NO. REV
		MATERIAL				A Rest_Box_002-14 01
NEXT ASSY	USED ON	FINISH				SCALE: 1:20 WEIGHT: SHEET 4 OF 10
APPLICATION		DO NOT SCALE DRAWING				



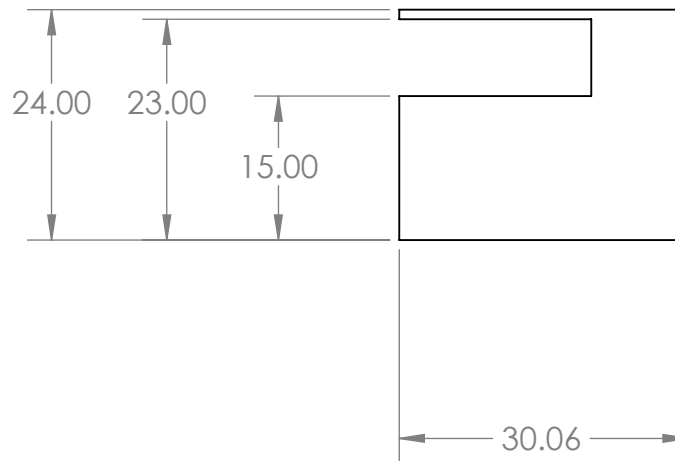
PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:		
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012	0.1875	
		TOLERANCES:	CHECKED			TITLE:	
		FRACTIONAL $\pm 1/16$	ENG APPR.			REST BOX BASE	
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.				
		ONE PLACE DECIMAL $\pm .1$	Q.A.				
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:				
		THREE PLACE DECIMAL ± 0.030					
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100				SIZE	DWG. NO.
		MATERIAL				A	Rest_Box_002-2
		5052-H32					REV
		FINISH					01
NEXT ASSY	USED ON					SCALE: 1:20	WEIGHT:
							SHEET 5 OF 10
APPLICATION		DO NOT SCALE DRAWING					



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

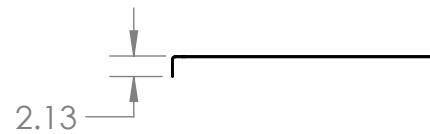
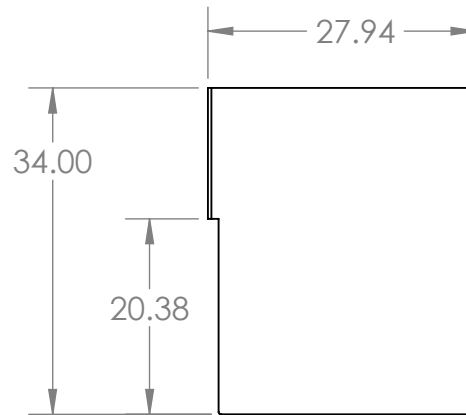
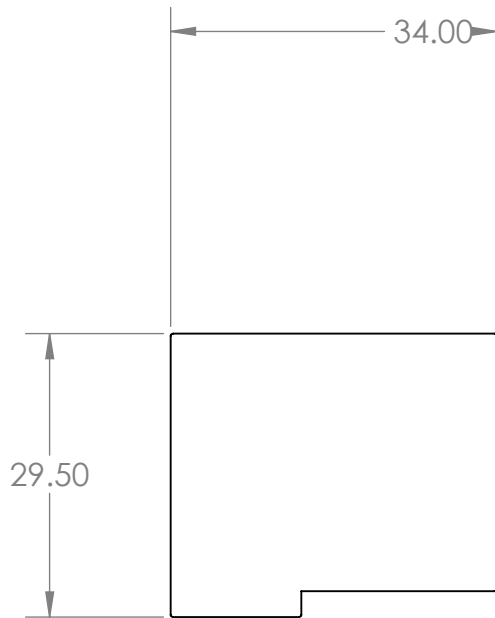
		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE: 0.1875	
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012	TITLE: REST BOX WALL 3/4
		TOLERANCES:	CHECKED			
		FRACTIONAL $\pm 1/16$	ENG APPR.			
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.			
		ONE PLACE DECIMAL $\pm .1$	Q.A.			SIZE DWG. NO. REV A Rest_Box_002-3 01
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:			
		THREE PLACE DECIMAL ± 0.030				SCALE: 1:20 WEIGHT: SHEET 6 OF 10
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100				
		MATERIAL				
		5052-H32				
		FINISH				
NEXT ASSY	USED ON					
APPLICATION		DO NOT SCALE DRAWING				



PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

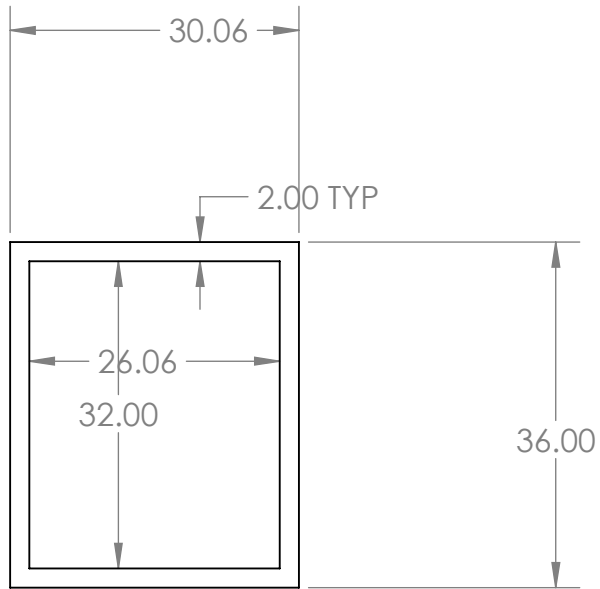
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012	
		TOLERANCES:		CHECKED			TITLE:
		FRACTIONAL $\pm 1/16$		ENG APPR.			REST BOX WALL 1/4
		ANGULAR: MACH ± 0.5 BEND ± 2		MFG APPR.			
		ONE PLACE DECIMAL $\pm .1$		Q.A.			
		TWO PLACE DECIMAL $\pm .06$		COMMENTS:			
		THREE PLACE DECIMAL ± 0.030					
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					SIZE DWG. NO. REV
		MATERIAL					A Rest_Box_002-8 01
NEXT ASSY	USED ON	FINISH					SCALE: 1:20 WEIGHT: SHEET 7 OF 10
APPLICATION		DO NOT SCALE DRAWING					



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

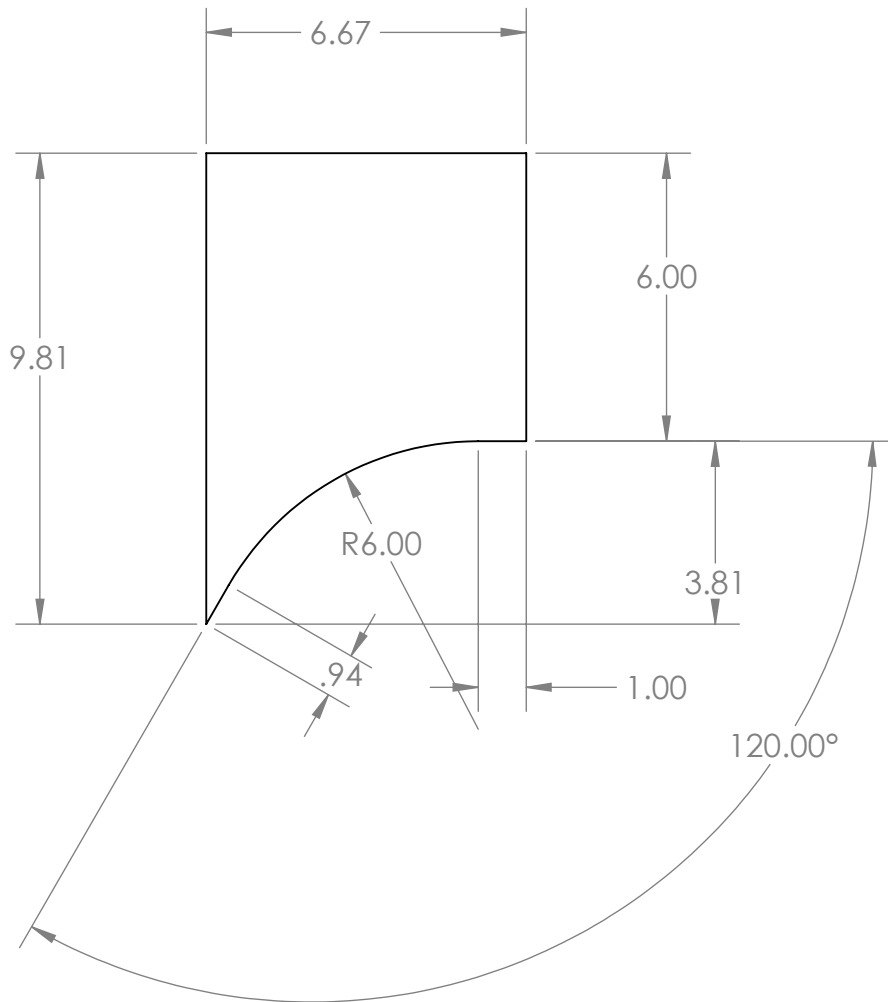
		UNLESS OTHERWISE SPECIFIED:	NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ
		TOLERANCES:	CHECKED	11/28/2012
		FRACTIONAL ± 1/16	ENG APPR.	
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.	
		ONE PLACE DECIMAL ± .1	Q.A.	
		TWO PLACE DECIMAL ± .06	COMMENTS:	
		THREE PLACE DECIMAL ± 0.030		
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100		
		MATERIAL		
		AL 5052-H32		
NEXT ASSY	USED ON	FINISH		
APPLICATION		DO NOT SCALE DRAWING		

STOCK SIZE:		0.125
TITLE:		
REST BOX LID		
SIZE	DWG. NO.	REV
A	REST_BOX_002-1	01
SCALE: 1:20	WEIGHT:	SHEET 8 OF 10



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:			
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012	0.1875		
		TOLERANCES:	CHECKED			TITLE:		
		FRACTIONAL $\pm 1/16$	ENG APPR.			REST BOX LID-1		
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.					
		ONE PLACE DECIMAL $\pm .1$	Q.A.					
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:					
		THREE PLACE DECIMAL ± 0.030				SIZE	DWG. NO.	REV
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100				A	Rest_Box_002-4	01
		MATERIAL				SCALE: 1:20	WEIGHT:	SHEET 9 OF 10
		5052-H32						
		FINISH						
NEXT ASSY	USED ON							
APPLICATION		DO NOT SCALE DRAWING						

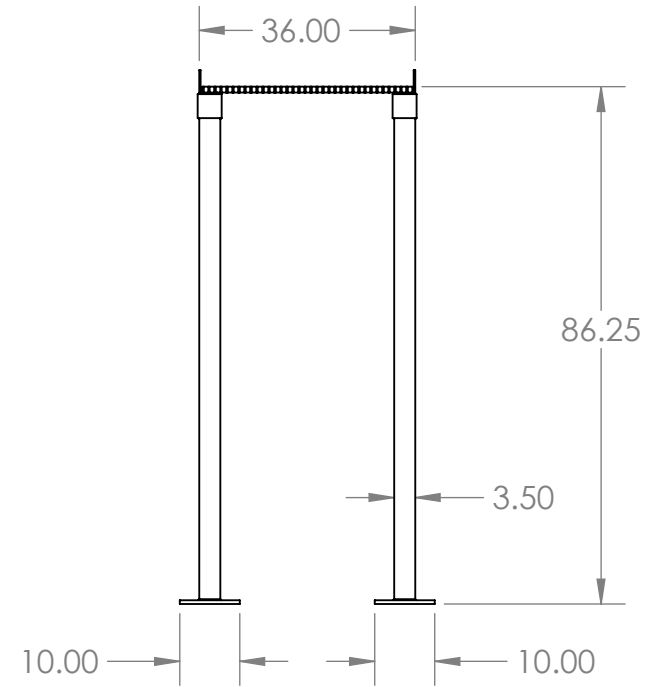


PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012
		TOLERANCES:	CHECKED		
		FRACTIONAL $\pm 1/16$	ENG APPR.		
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.		
		ONE PLACE DECIMAL $\pm .1$			
		TWO PLACE DECIMAL $\pm .06$			
		THREE PLACE DECIMAL ± 0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100	Q.A.		
		MATERIAL	COMMENTS:		
		5052-H32			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

STOCK SIZE:			0.1875
TITLE:			
Transition from Rest Box #3			
SIZE	DWG. NO.	REV	
A	Tran_arc_sidewall_03	01	
SCALE: 1:4	WEIGHT:	SHEET 10 OF 10	



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <INSERT COMPANY NAME HERE>. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <INSERT COMPANY NAME HERE> IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	
		DIMENSIONS ARE IN INCHES		DRAWN		
		TOLERANCES:		CHECKED		TITLE:
		FRACTIONAL ±		ENG APPR.		
		ANGULAR: MACH ± BEND ±		MFG APPR.		
		TWO PLACE DECIMAL ±		Q.A.		
		THREE PLACE DECIMAL ±		COMMENTS:		
		INTERPRET GEOMETRIC TOLERANCING PER:				
		MATERIAL				SIZE DWG. NO. REV
		FINISH				Lamp Exit Box Platform
NEXT ASSY	USED ON					SCALE: 1:32 WEIGHT: SHEET 1 OF 4
APPLICATION		DO NOT SCALE DRAWING				

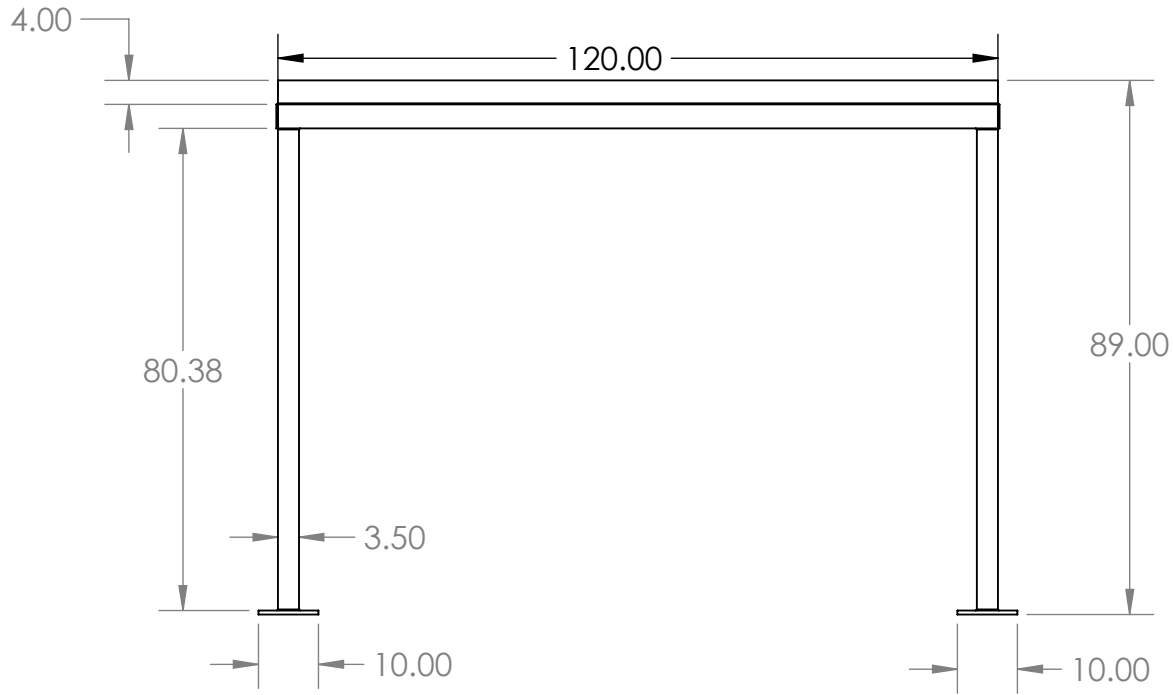
5

4

3

2

1

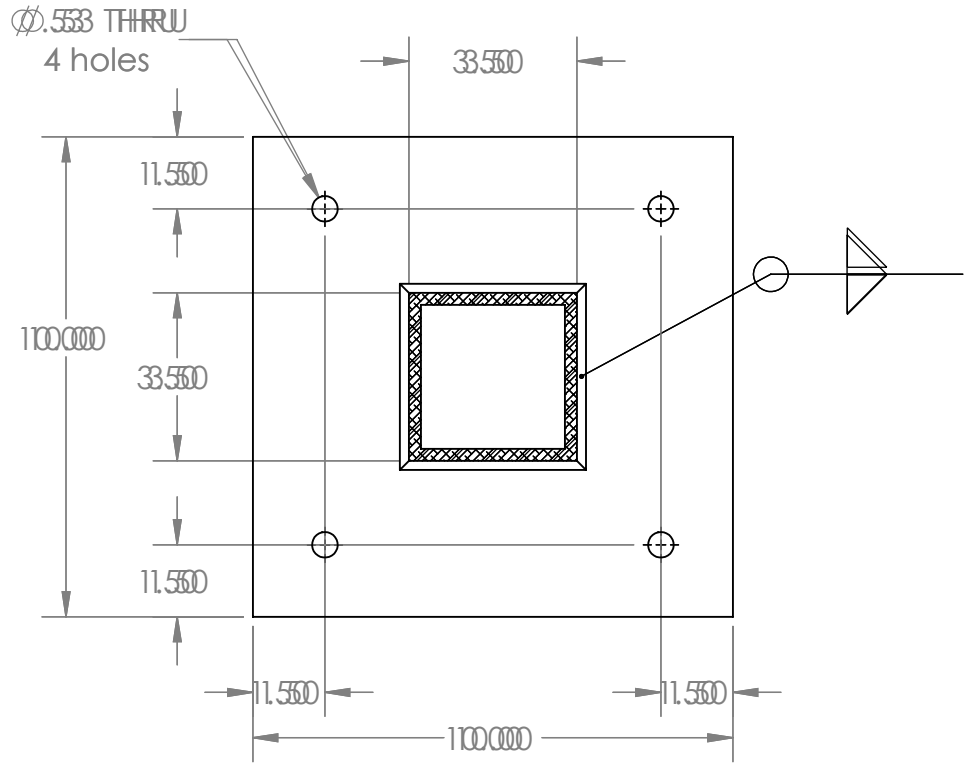
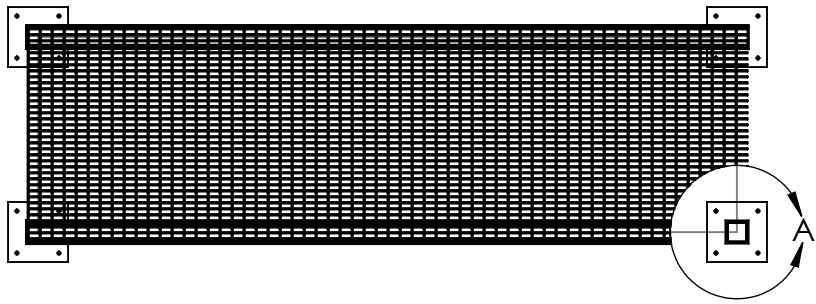


PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <INSERT COMPANY NAME HERE>. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <INSERT COMPANY NAME HERE> IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN		
		TOLERANCES:	CHECKED		
		FRACTIONAL ±	ENG APPR.		
		ANGULAR: MACH ± BEND ±	MFG APPR.		
		TWO PLACE DECIMAL ±	Q.A.		
		THREE PLACE DECIMAL ±	COMMENTS:		
		INTERPRET GEOMETRIC TOLERANCING PER:			
		MATERIAL			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

TITLE:		
SIZE	DWG. NO.	REV
SCALE: 1:32	WEIGHT:	SHEET 2 OF 4

Lamp Exit Box Platform

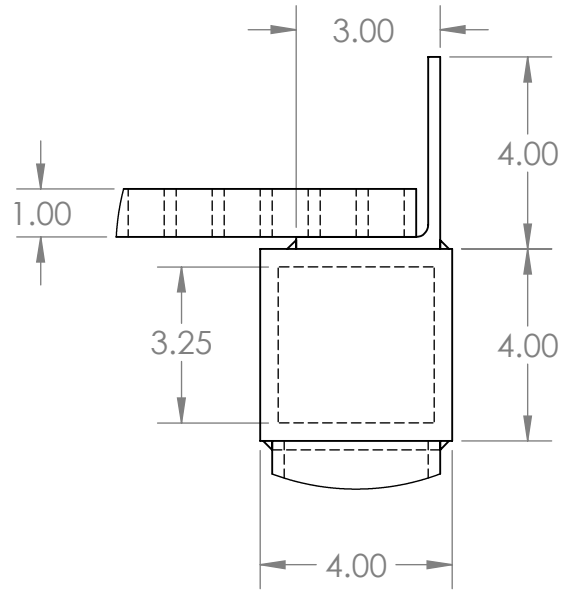
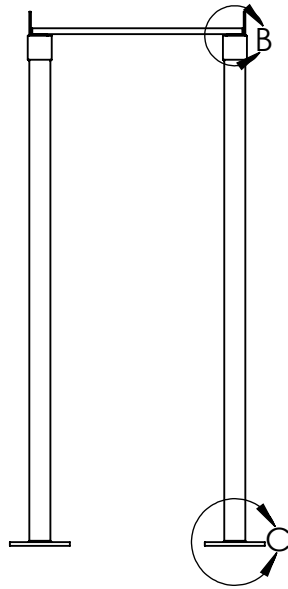


DETAIL A
SCALE 1 : 4

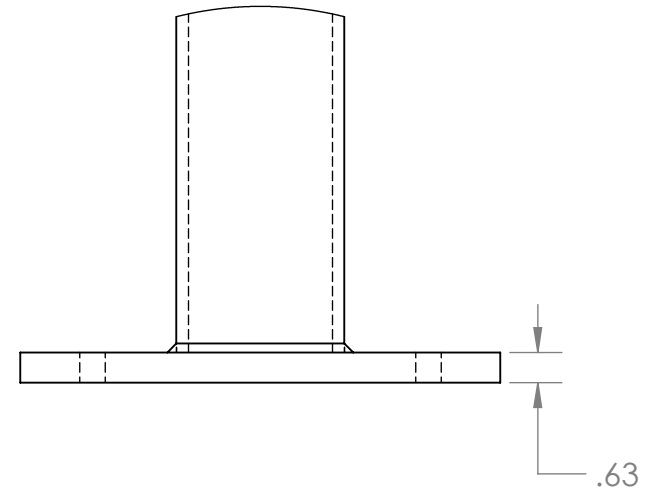
PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <INSERT COMPANY NAME HERE>. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <INSERT COMPANY NAME HERE> IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	
		DIMENSIONS ARE IN INCHES		DRAWN		TITLE:
		TOLERANCES:		CHECKED		
		FRACTIONAL ±		ENG APPR.		
		ANGULAR: MACH ± BEND ±		MFG APPR.		
		TWO PLACE DECIMAL ±		Q.A.		
		THREE PLACE DECIMAL ±		COMMENTS:		
		INTERPRET GEOMETRIC TOLERANCING PER:				SIZE DWG. NO. REV
		MATERIAL				
		FINISH				
NEXT ASSY	USED ON					
APPLICATION		DO NOT SCALE DRAWING				SCALE: 1:32 WEIGHT: SHEET 3 OF 4

Lamprey Exit Box Platform



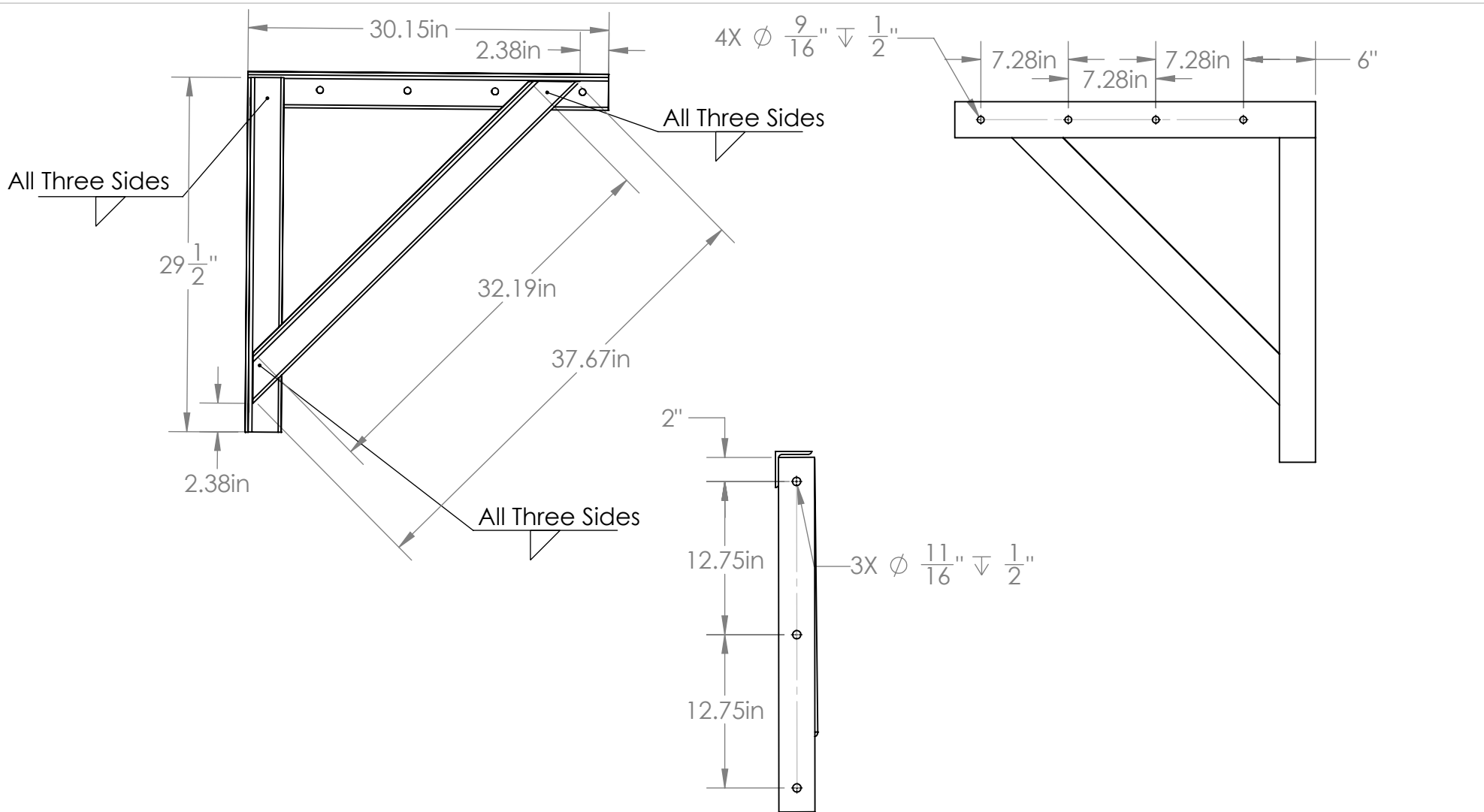
DETAIL B
SCALE 1 : 4



DETAIL C
SCALE 1 : 4

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <INSERT COMPANY NAME HERE>. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <INSERT COMPANY NAME HERE> IS PROHIBITED.

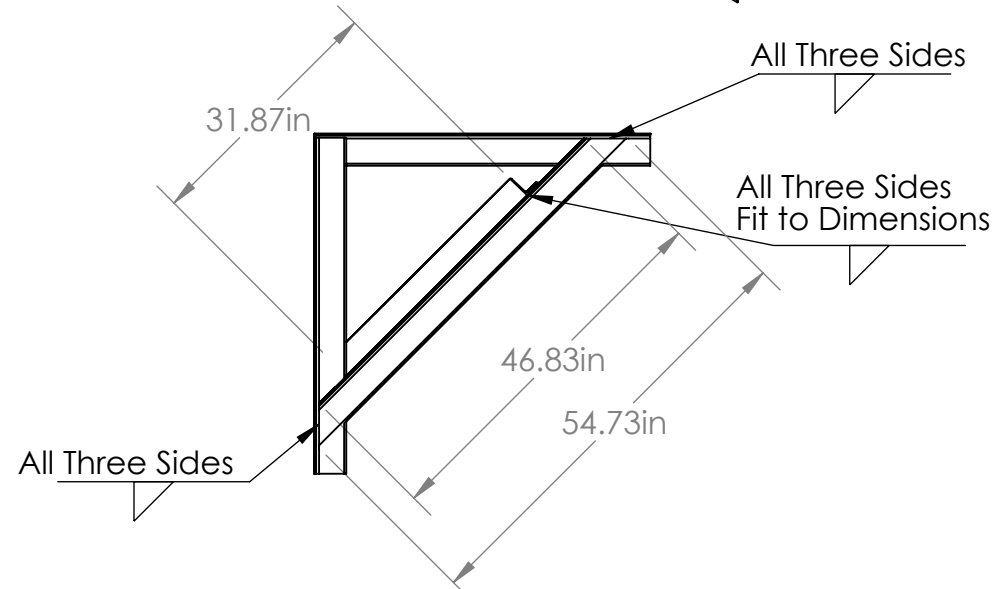
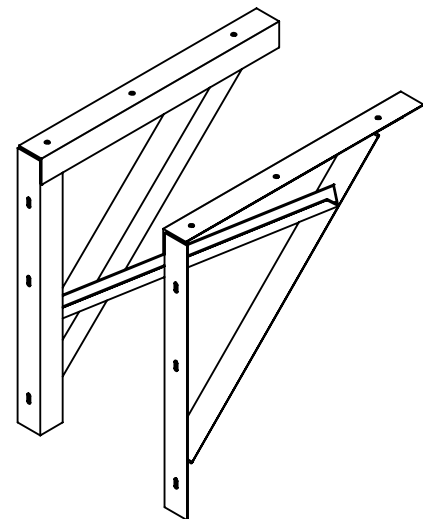
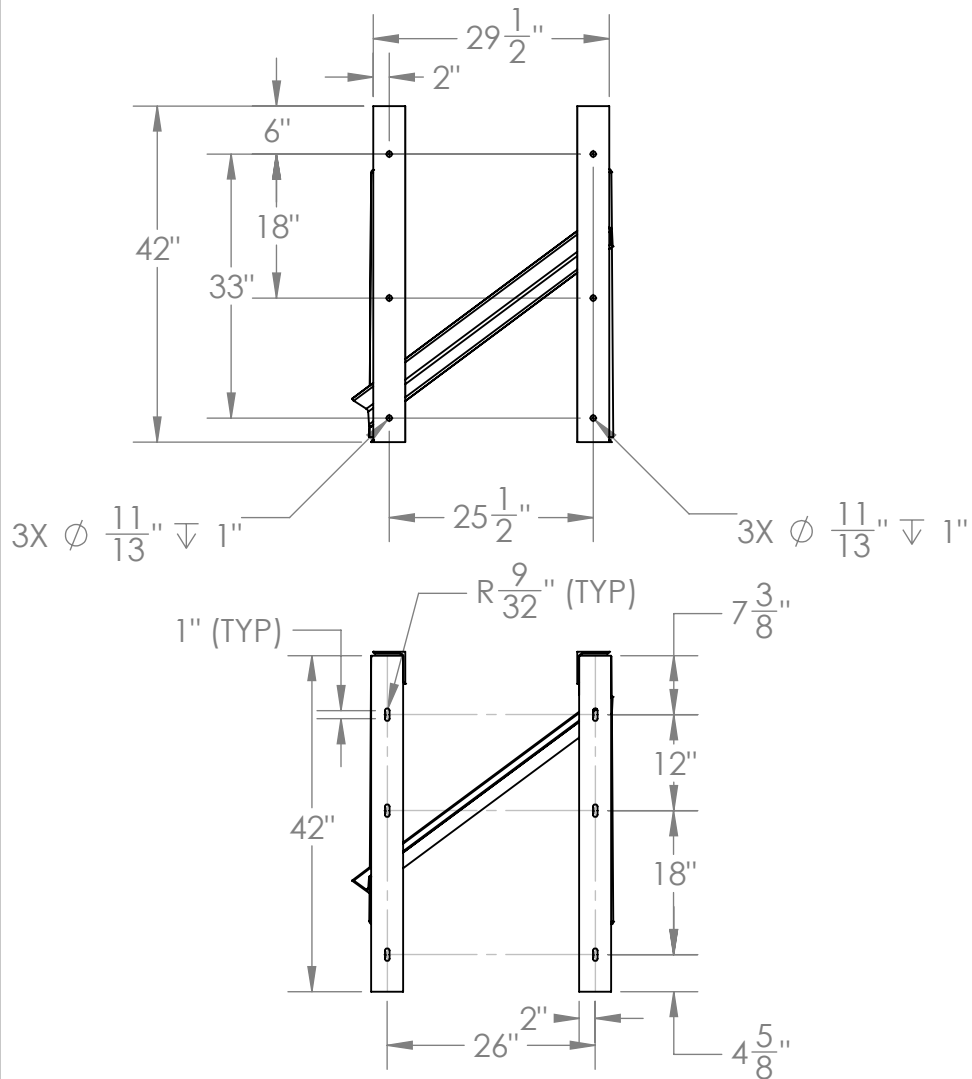
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE		
		DIMENSIONS ARE IN INCHES		DRAWN		TITLE:	
		TOLERANCES:		CHECKED			
		FRACTIONAL ±		ENG APPR.			
		ANGULAR: MACH ± BEND ±		MFG APPR.			
		TWO PLACE DECIMAL ±		Q.A.		SIZE A DWG. NO. Lamprey Exit Box Platform REV SCALE: 1:32 WEIGHT: SHEET 4 OF 4	
		THREE PLACE DECIMAL ±		COMMENTS:			
		INTERPRET GEOMETRIC TOLERANCING PER:					
		MATERIAL					
		FINISH					
NEXT ASSY	USED ON	APPLICATION	DO NOT SCALE DRAWING				



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	JCS 11/18/2012
		TOLERANCES:	CHECKED	
		FRACTIONAL $\pm 1/16$	ENG APPR.	
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.	
		ONE PLACE DECIMAL $\pm .1$	Q.A.	
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:	
		THREE PLACE DECIMAL ± 0.030		
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100		
		MATERIAL		
		AISI 316 SS		
		FINISH		
NEXT ASSY	USED ON			
APPLICATION		DO NOT SCALE DRAWING		

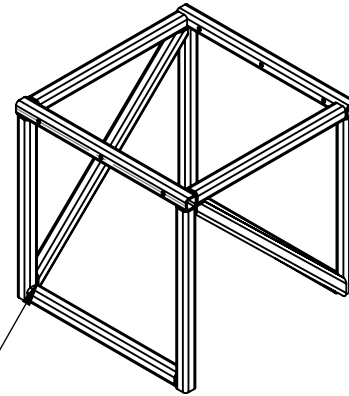
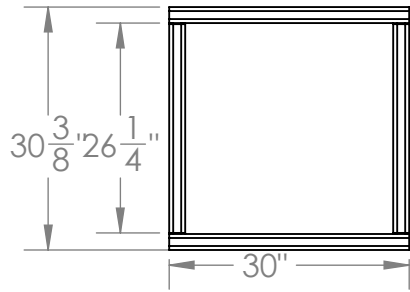
STOCK SIZE: L3x3x0.25		
TITLE: Structural Bracket		
SIZE	DWG. NO.	REV
A	strbracket	01
SCALE: 1:12	WEIGHT:	SHEET 1 OF 3



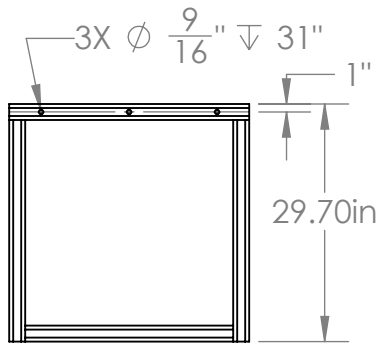
PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	JCS 11/18/2012
		TOLERANCES:	CHECKED	
		FRACTIONAL ± 1/16	ENG APPR.	
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.	
		ONE PLACE DECIMAL ± .1	Q.A.	
		TWO PLACE DECIMAL ± .06	COMMENTS:	
		THREE PLACE DECIMAL ± 0.030		
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100		
NEXT ASSY	USED ON	MATERIAL		
		AISI 316 SS		
APPLICATION		FINISH		
		DO NOT SCALE DRAWING		

STOCK SIZE:		
L3x3x0.25		
TITLE:		
Rest Box Support		
SIZE	DWG. NO.	REV
A	Str_brac_03-1	01
SCALE: 1:24	WEIGHT:	SHEET 2 OF 3

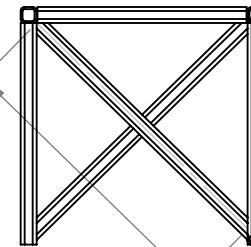


All Joints (TYP)



Mitre Corners (TYP)

36.84in

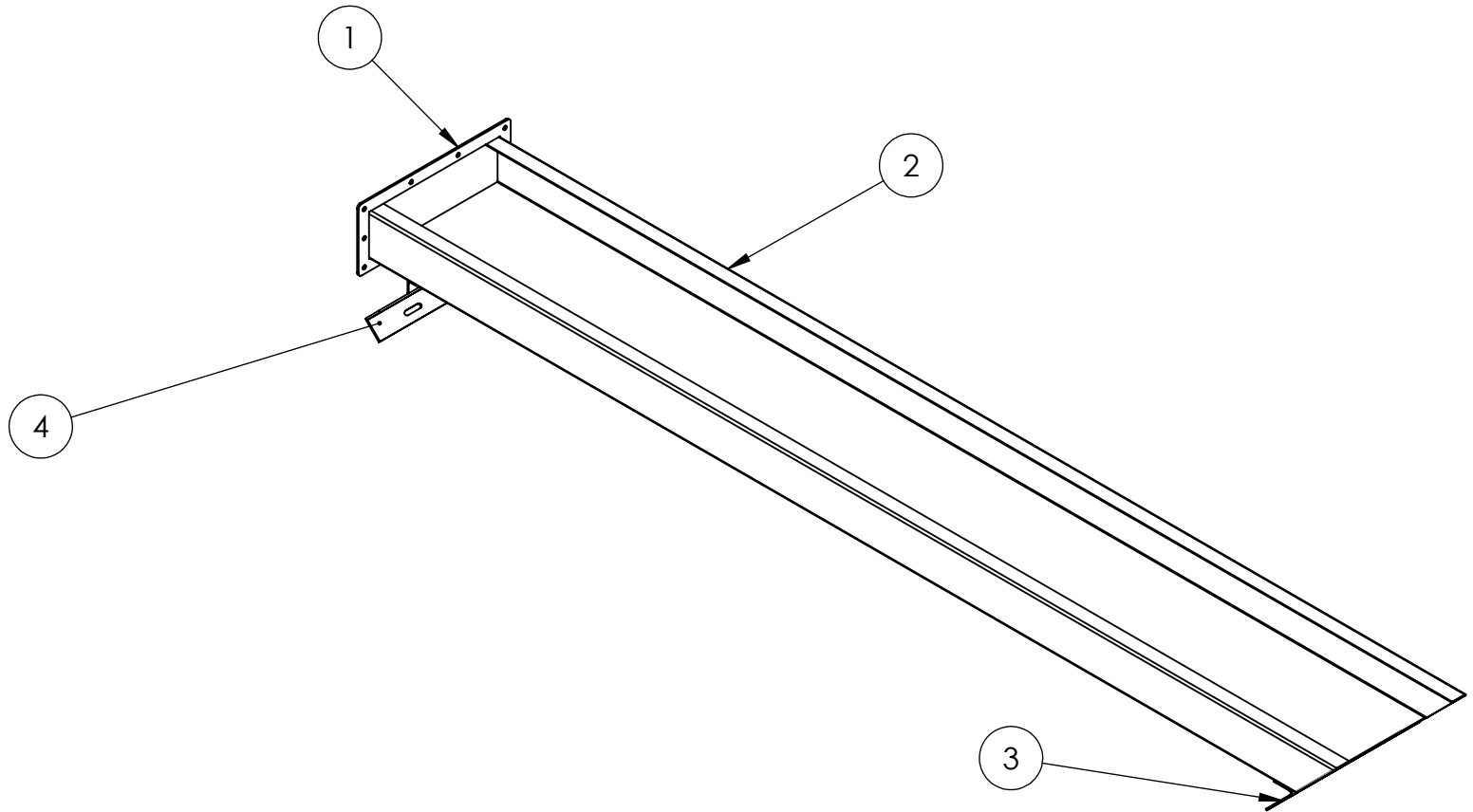


PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	JCS 11/18/2012
		TOLERANCES:	CHECKED	
		FRACTIONAL ± 1/16	ENG APPR.	
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.	
		ONE PLACE DECIMAL ± .1	Q.A.	
		TWO PLACE DECIMAL ± .06	COMMENTS:	
		THREE PLACE DECIMAL ± 0.030		
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100		
		MATERIAL		
		AISI 316 SS		
NEXT ASSY	USED ON	FINISH		
APPLICATION		DO NOT SCALE DRAWING		

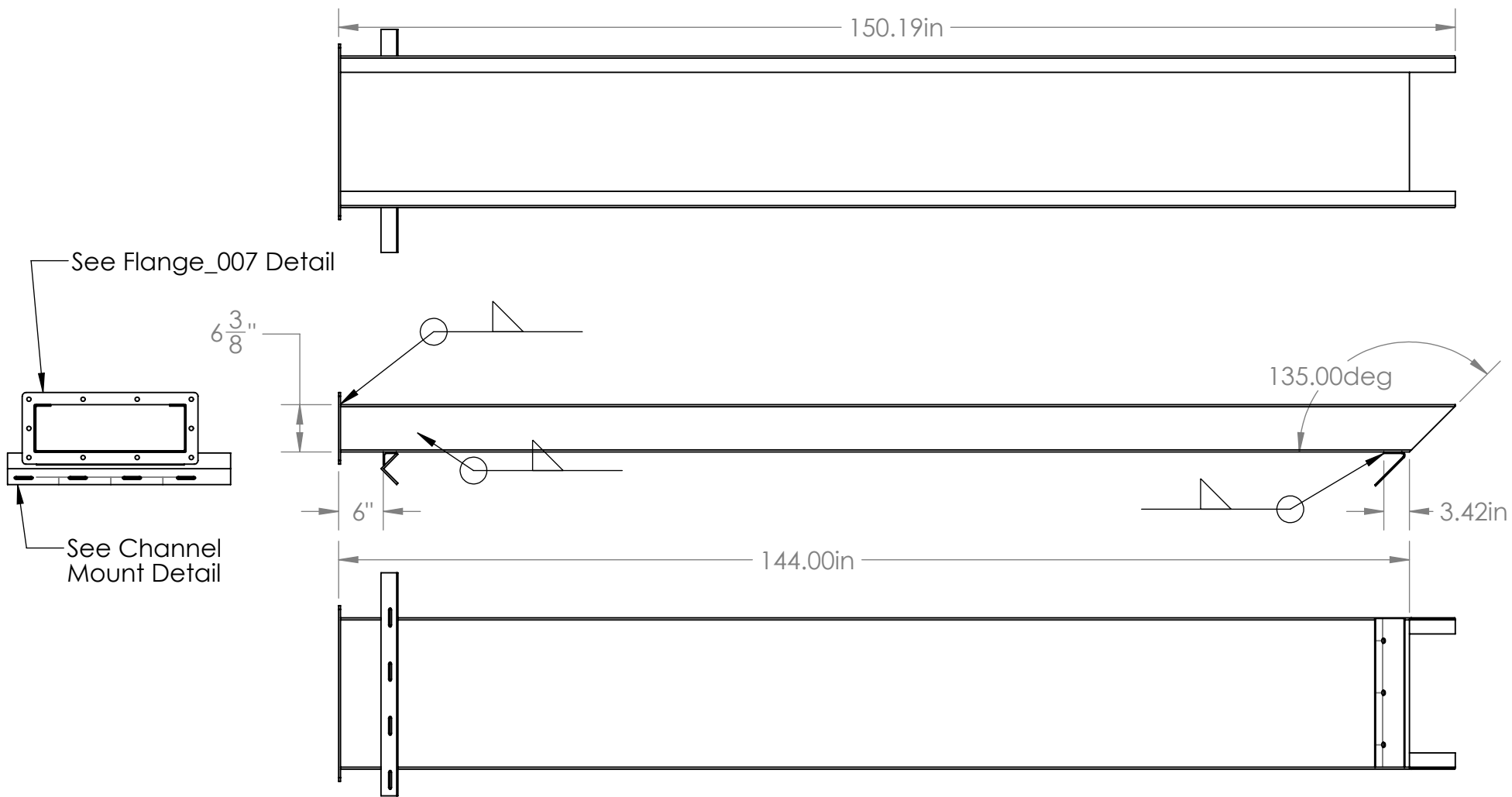
STOCK SIZE: 2x2x0.25 Square Tubing		
TITLE: Upwelling Box Base		
SIZE A	DWG. NO. STRUCT_UPWELLING_BASE	REV 01
SCALE: 1:24	WEIGHT:	SHEET 3 OF 3

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Flange_007	Flange, 21"x8" entry	1
2	C-Channel_8x20_Entry	C-CHANNEL, 12.5FT	1
3	Entry Mount	Entry Mount	1
4	Channel_mount	Channel Mount	1



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:
		DIMENSIONS ARE IN INCHES	DRAWN	JCS	11/18/2012
		TOLERANCES:	CHECKED		TITLE:
		FRACTIONAL $\pm 1/16$	ENG APPR.		12' Open Chnl 1 Fl
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.		
		ONE PLACE DECIMAL $\pm .1$	Q.A.		
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:		
		THREE PLACE DECIMAL ± 0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100			SIZE DWG. NO. REV
NEXT ASSY	USED ON	MATERIAL			A Channel_8x20_Entry 01
APPLICATION		FINISH			SCALE: 1:20 WEIGHT: SHEET 1 OF 3
		DO NOT SCALE DRAWING			



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES		DRAWN	JCS	11/18/2012	TITLE: 12' Open Chnl 1 Fl
		TOLERANCES:		CHECKED			
		FRACTIONAL ± 1/16		ENG APPR.			
		ANGULAR: MACH ±0.5 BEND ±2		MFG APPR.			
		ONE PLACE DECIMAL ±.1		Q.A.			SIZE DWG. NO. REV A Channel_8x20_Entry 01
		TWO PLACE DECIMAL ±.06		COMMENTS:			
		THREE PLACE DECIMAL ±0.030					SCALE: 1:20 WEIGHT: SHEET 2 OF 3
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					
		MATERIAL					
NEXT ASSY	USED ON	FINISH					
APPLICATION		DO NOT SCALE DRAWING					

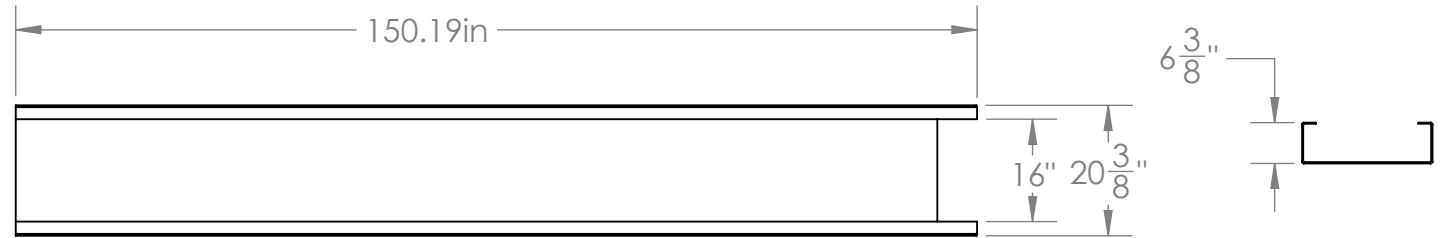
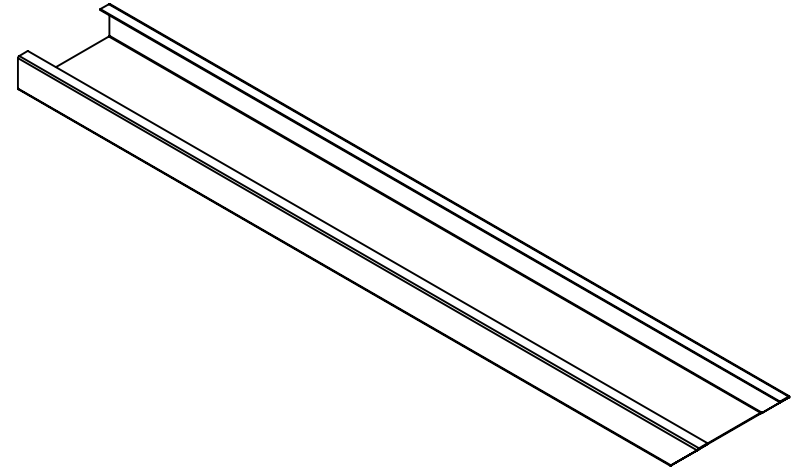
5

4

3

2

1

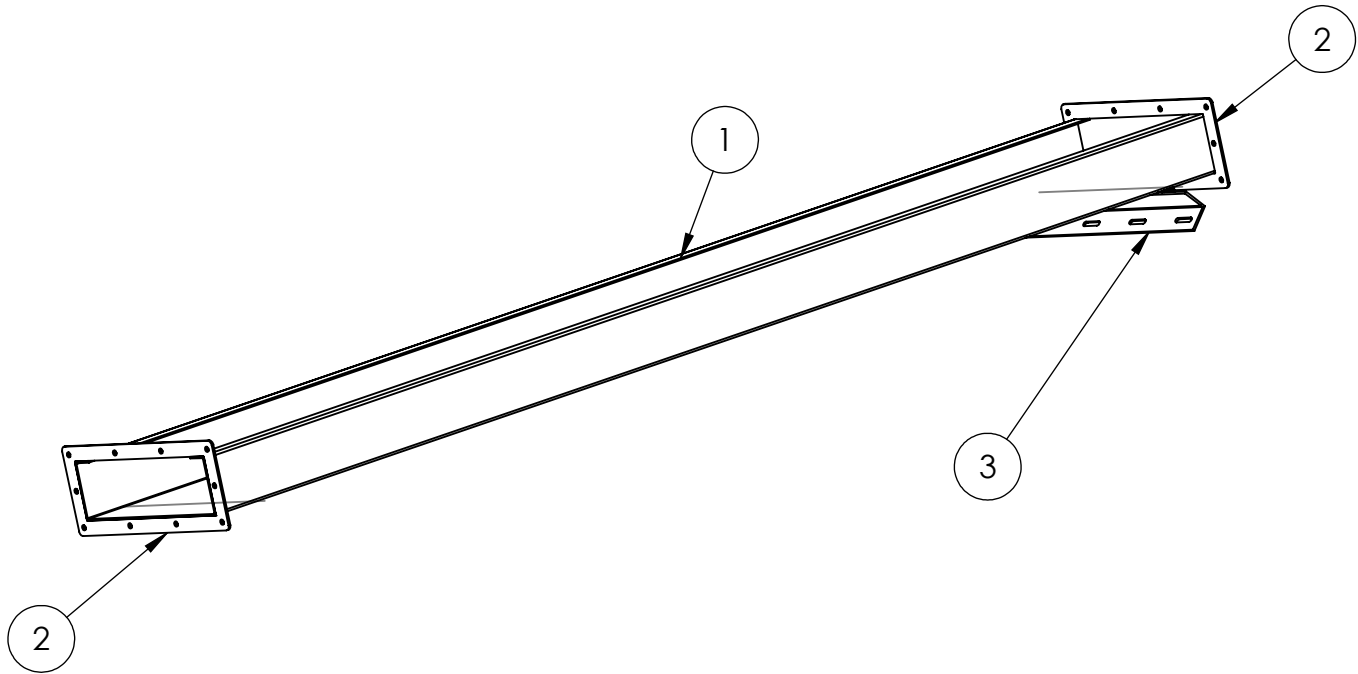


PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	JCS
		TOLERANCES:	CHECKED	11/18/2012
		FRACTIONAL ± 1/16	ENG APPR.	
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.	
		ONE PLACE DECIMAL ± .1	Q.A.	
		TWO PLACE DECIMAL ± .06	COMMENTS:	
		THREE PLACE DECIMAL ± 0.030		
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100		
		MATERIAL		
		5052-H32		
NEXT ASSY	USED ON	FINISH		
APPLICATION		DO NOT SCALE DRAWING		

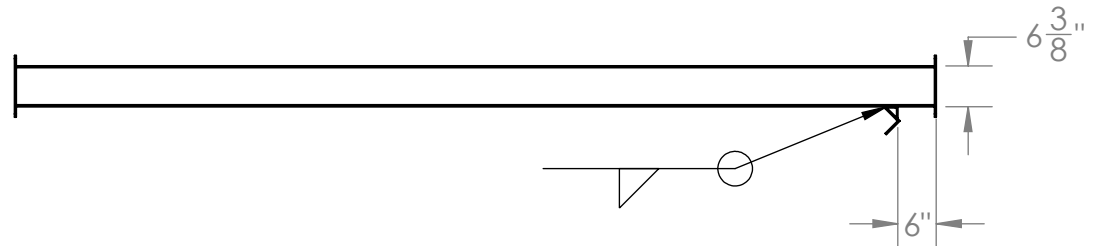
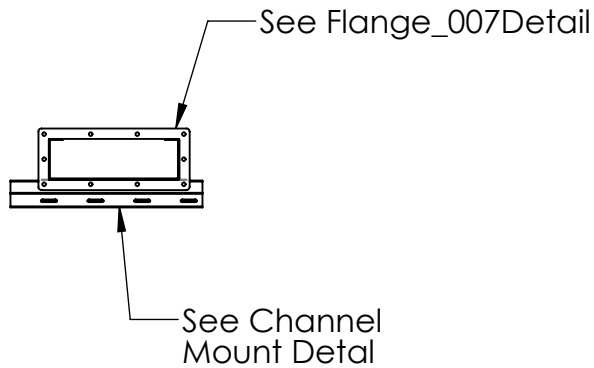
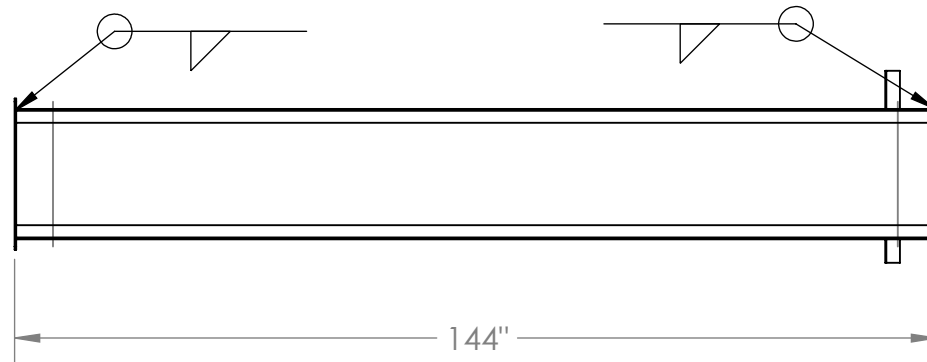
STOCK SIZE:		
3/16"		
TITLE:		
C-CHANNEL, 12.5FT		
SIZE	DWG. NO.	REV
A	C-Channel_8x20_Entry	01
SCALE: 1:30	WEIGHT:	SHEET 3 OF 3

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	C-Channel_8x20_12ft	C-CHANNEL, 12FT	1
2	Flange_005	Flange, 21"x8"	2
3	Channel_mount	Channel Mount	1



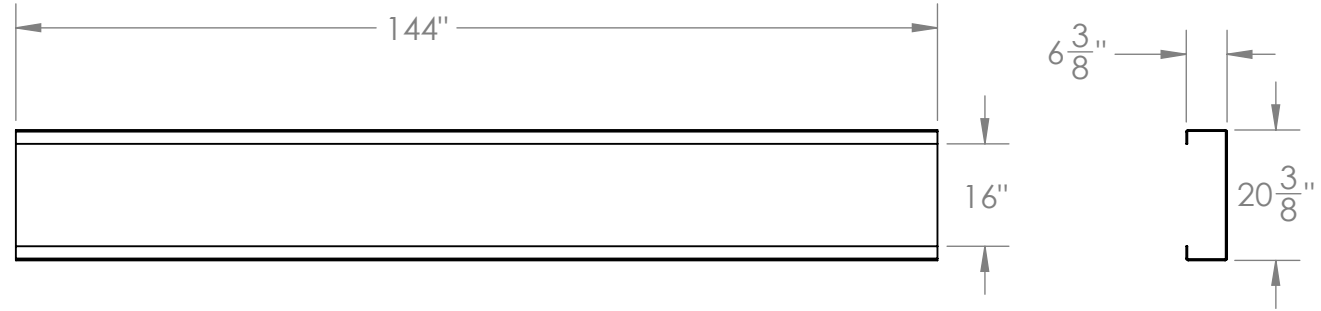
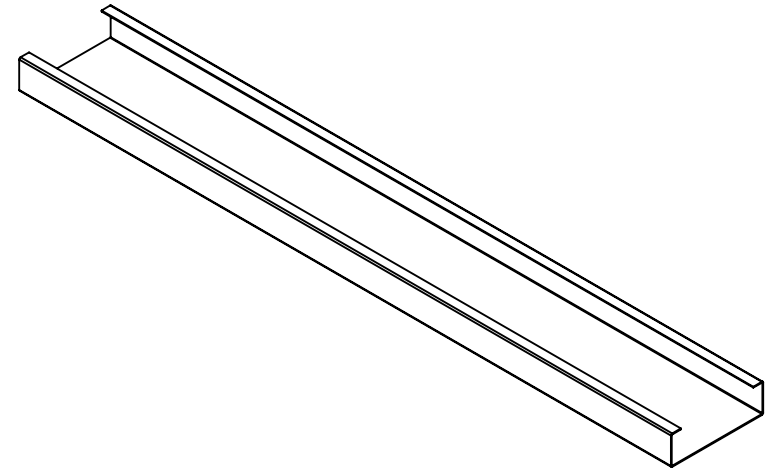
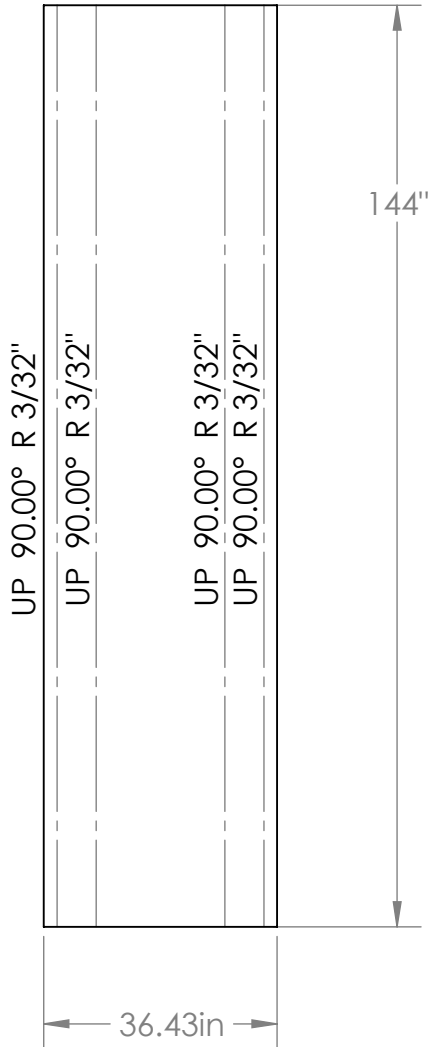
PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:
		DIMENSIONS ARE IN INCHES	DRAWN	JCS	11/18/2012
		TOLERANCES:	CHECKED		
		FRACTIONAL $\pm 1/16$	ENG APPR.		
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.		
		ONE PLACE DECIMAL $\pm .1$	Q.A.		
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:		
		THREE PLACE DECIMAL ± 0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100			
		MATERIAL			TITLE:
NEXT ASSY	USED ON	FINISH			Climbing Duct, 6ft
APPLICATION		DO NOT SCALE DRAWING			SIZE DWG. NO. REV
					A Channel_8x20_12ft open 01
					SCALE: 1:20 WEIGHT: SHEET 1 OF 3



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

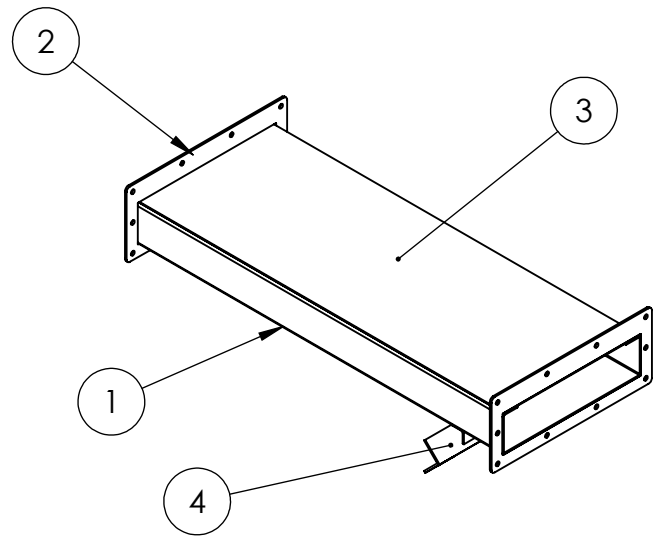
			UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:
			DIMENSIONS ARE IN INCHES	DRAWN	JCS	11/18/2012	
			TOLERANCES:	CHECKED			TITLE:
			FRACTIONAL ± 1/16	ENG APPR.			Climbing Duct, 6ft
			ANGULAR: MACH ±0.5 BEND ±2	MFG APPR.			
			ONE PLACE DECIMAL ±.1	Q.A.			
			TWO PLACE DECIMAL ±.06	COMMENTS:			
			THREE PLACE DECIMAL ±0.030				
			INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100				SIZE DWG. NO. REV
			MATERIAL				A Channel_8x20_12ft open 01
	NEXT ASSY	USED ON	FINISH				SCALE: 1:30 WEIGHT: SHEET 2 OF 3
	APPLICATION		DO NOT SCALE DRAWING				



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES		DRAWN	JCS	11/18/2012	3/16"
		TOLERANCES:		CHECKED			TITLE:
		FRACTIONAL ± 1/16		ENG APPR.			C-CHANNEL, 12FT
		ANGULAR: MACH ±0.5 BEND ±2		MFG APPR.			
		ONE PLACE DECIMAL ±.1		Q.A.			
		TWO PLACE DECIMAL ±.06		COMMENTS:			
		THREE PLACE DECIMAL ±0.030					
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					
		MATERIAL					SIZE DWG. NO. REV
		5052-H32					A C-Channel_8x20_12ft 01
NEXT ASSY	USED ON	FINISH					SCALE: 1:30 WEIGHT: SHEET 3 OF 3
APPLICATION		DO NOT SCALE DRAWING					

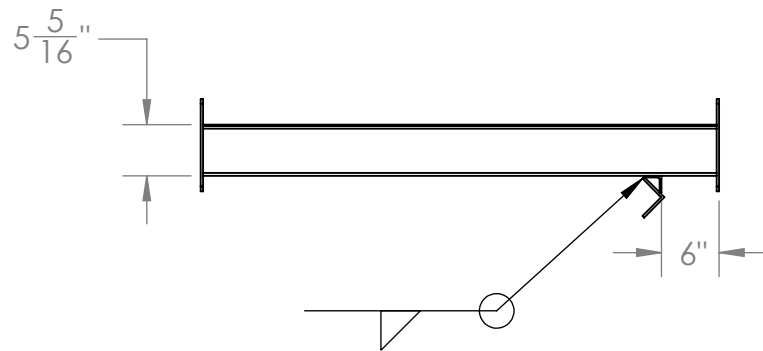
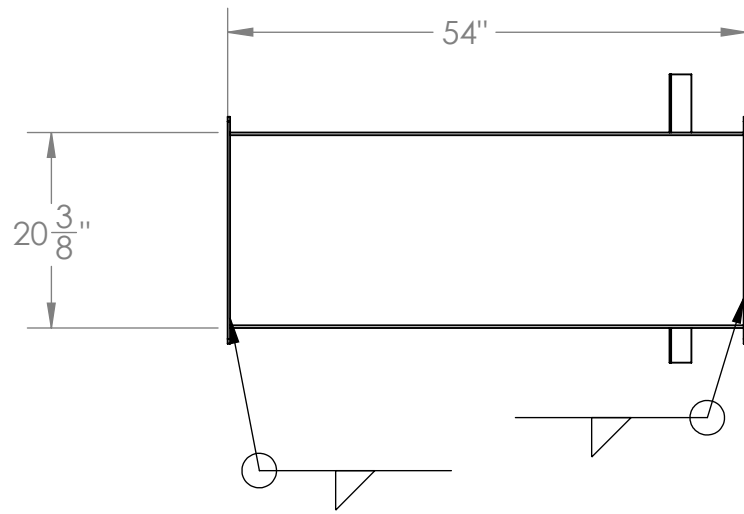
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	C-Channel_10'x8'x20"	C Channel, 10ft	1
2	Flange_005 - girder	Flange through Girder	2
3	Channel_Lid_UnderGirder	Channel Lid Under Girder	1
4	Channel_mount	Channel Mount	1



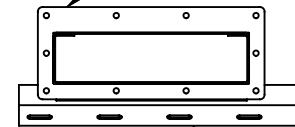
PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	JCS
		TOLERANCES:	CHECKED	11/17/2012
		FRACTIONAL $\pm 1/16$	ENG APPR.	
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.	
		ONE PLACE DECIMAL $\pm .1$	Q.A.	
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:	
		THREE PLACE DECIMAL ± 0.030		
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100		
		MATERIAL		
NEXT ASSY	USED ON	FINISH		
APPLICATION		DO NOT SCALE DRAWING		

STOCK SIZE:		
TITLE: Climbing Duct, Under Girder		
SIZE A	DWG. NO. Channel_5.1875x20_7ft under girder	REV 01
SCALE: 1:20	WEIGHT:	SHEET 1 OF 4



See Flange_005 Detail



See Channel Mount Detail



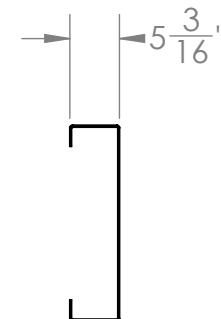
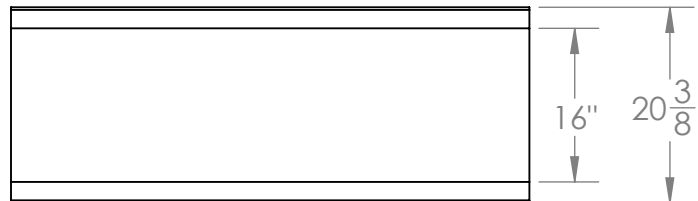
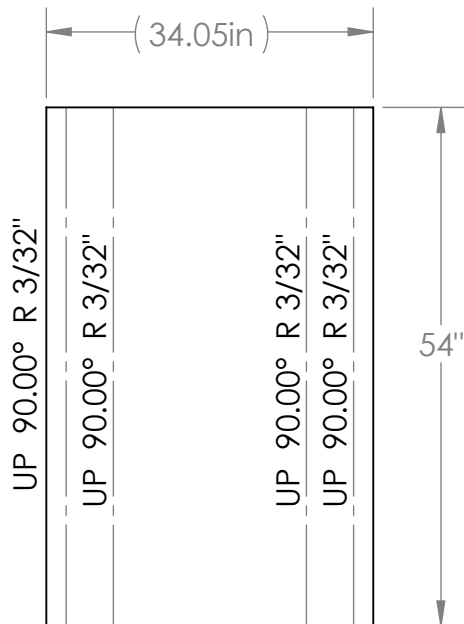
PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:
		DIMENSIONS ARE IN INCHES	DRAWN	JCS	11/17/2012
		TOLERANCES:	CHECKED		
		FRACTIONAL ± 1/16	ENG APPR.		
		ANGULAR: MACH ±0.5 BEND ±2	MFG APPR.		
		ONE PLACE DECIMAL ±.1	Q.A.		
		TWO PLACE DECIMAL ±.06	COMMENTS:		
		THREE PLACE DECIMAL ±0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100			
		MATERIAL			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

TITLE:
Climbing Duct, Under Girder

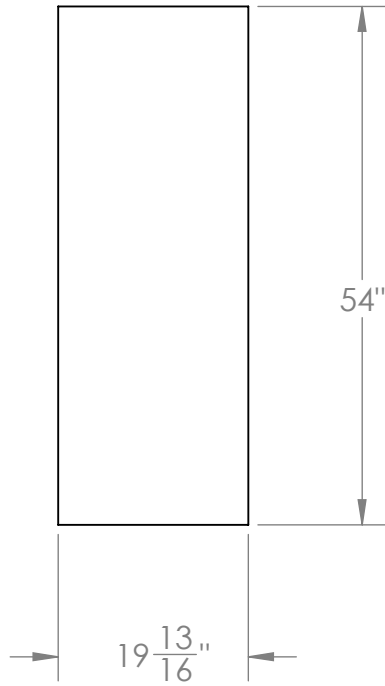
SIZE A	DWG. NO. Channel_5.1875x20_7ft under girder	REV 01
------------------	--	-----------

SCALE: 1:20	WEIGHT:	SHEET 2 OF 4
-------------	---------	--------------



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE: 3/16"	
		DIMENSIONS ARE IN INCHES		DRAWN	JCS	11/17/2012	TITLE: Channel Under Girder
		TOLERANCES:		CHECKED			
		FRACTIONAL ± 1/16		ENG APPR.			
		ANGULAR: MACH ±0.5 BEND ±2		MFG APPR.			
		ONE PLACE DECIMAL ±.1		Q.A.			SIZE DWG. NO. REV A C-Channel_8x20_Under Girder 01
		TWO PLACE DECIMAL ±.06		COMMENTS:			
		THREE PLACE DECIMAL ±0.030					SCALE: 1:20 WEIGHT: SHEET 3 OF 4
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					
		MATERIAL					
		5052-H32					
NEXT ASSY		USED ON					
APPLICATION		DO NOT SCALE DRAWING					

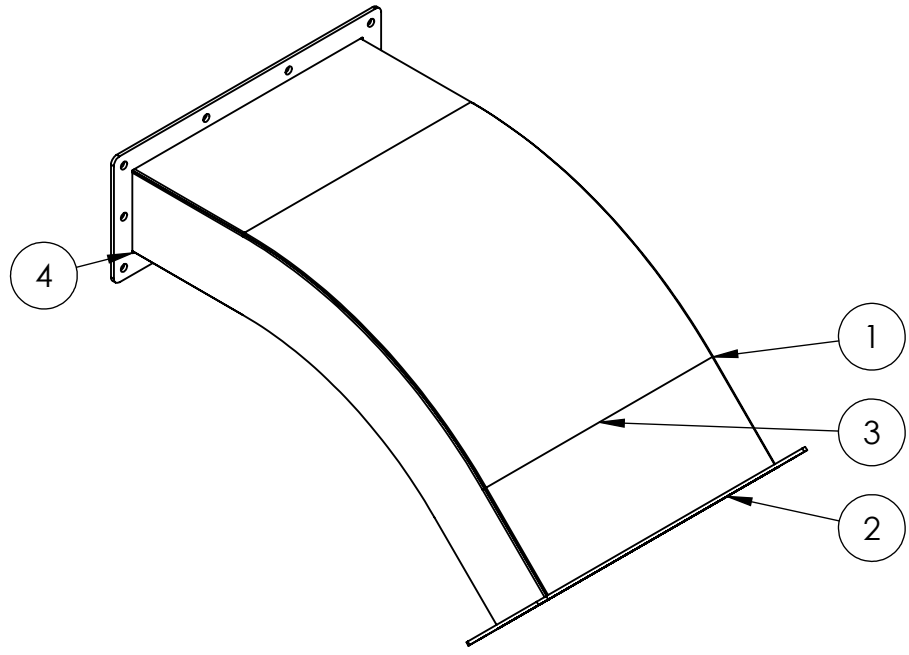


PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

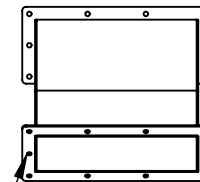
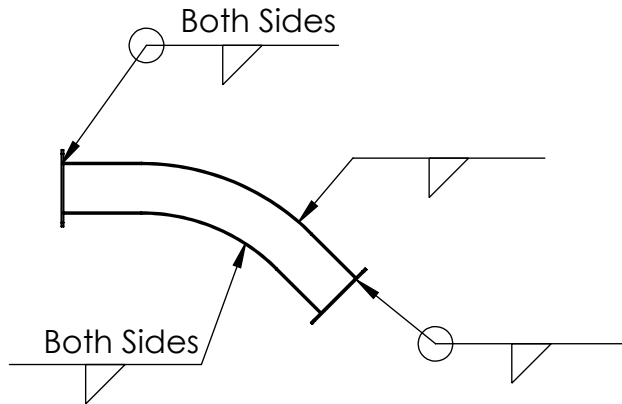
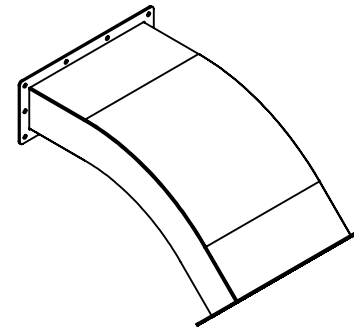
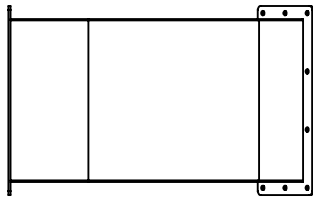
		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE: 1/8"	
		DIMENSIONS ARE IN INCHES	DRAWN	JCS	11/17/2012	TITLE: Channel Lid Under Girder
		TOLERANCES:	CHECKED			
		FRACTIONAL ± 1/16	ENG APPR.			
		ANGULAR: MACH ±0.5 BEND ±2	MFG APPR.			
		ONE PLACE DECIMAL ±.1	Q.A.			
		TWO PLACE DECIMAL ±.06	COMMENTS:			SIZE
		THREE PLACE DECIMAL ±0.030				DWG. NO.
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100				Channel_Lid_UnderGirder
		MATERIAL				REV
NEXT ASSY	USED ON	FINISH				01
APPLICATION		DO NOT SCALE DRAWING				SCALE: 1:20
						WEIGHT:
						SHEET 4 OF 4

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Tran_arc_sidewall_02	TRANSITION ARC	2
2	Tran_arc_1_02	TRANSITION ARC LID 1	1
3	Tran_arc_lid_02	TRANSITION ARC LID 2	1
4	Flange_005	Flange, 21"x8"	2



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:
		DIMENSIONS ARE IN INCHES	DRAWN	JCS	11/18/2012
		TOLERANCES:	CHECKED		TITLE:
		FRACTIONAL $\pm 1/16$	ENG APPR.		Transition
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.		
		ONE PLACE DECIMAL $\pm .1$	Q.A.		
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:		
		THREE PLACE DECIMAL ± 0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100			SIZE
		MATERIAL			DWG. NO.
NEXT ASSY	USED ON	FINISH			UPWTran
APPLICATION		DO NOT SCALE DRAWING			REV
					01
					SCALE: 1:12
					WEIGHT:
					SHEET 1 OF 5

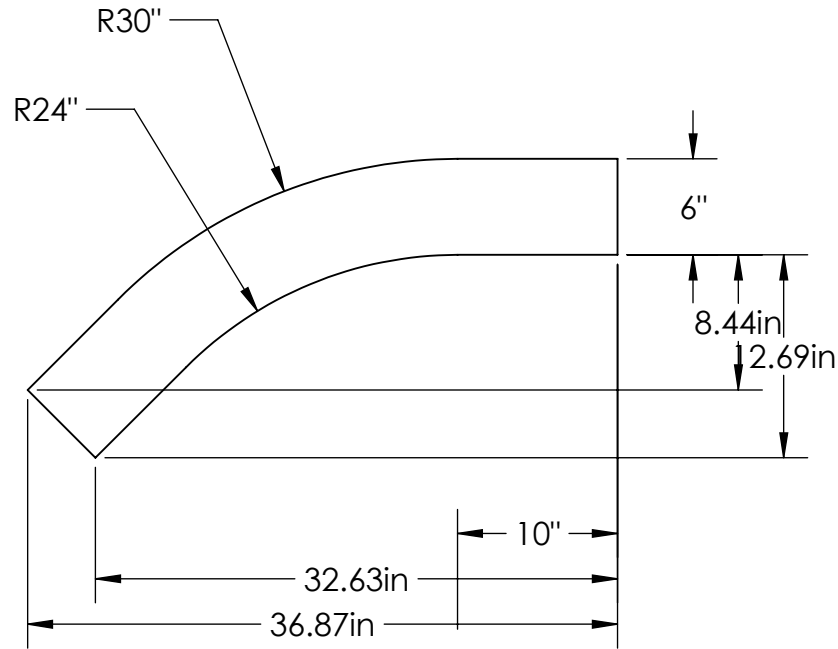


See Flange_005 Detail



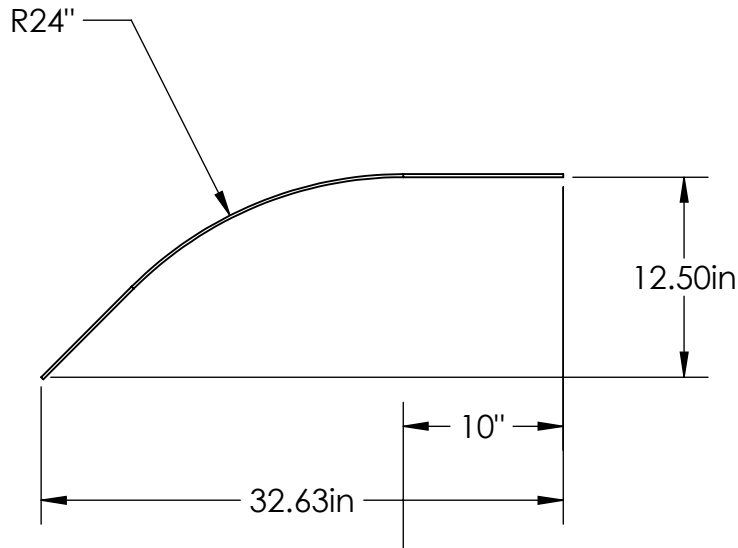
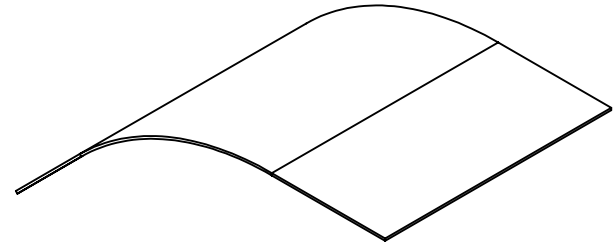
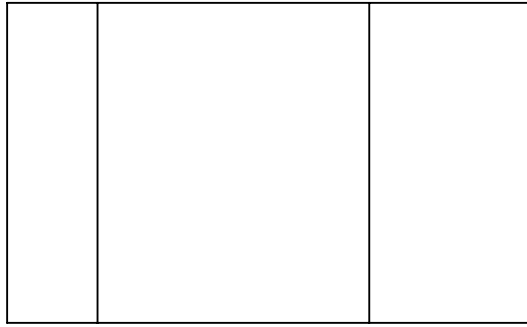
PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

			UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
			DIMENSIONS ARE IN INCHES	DRAWN	JCS	11/18/2012	TITLE:	
			TOLERANCES:	CHECKED			Transition	
			FRACTIONAL $\pm 1/16$	ENG APPR.			SIZE	
			ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.			A	DWG. NO.
			ONE PLACE DECIMAL $\pm .1$	Q.A.				UPWTran
			TWO PLACE DECIMAL $\pm .06$	COMMENTS:				REV
			THREE PLACE DECIMAL ± 0.030					01
			INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100				SCALE: 1:24	WEIGHT:
			MATERIAL					SHEET 2 OF 5
	NEXT ASSY	USED ON	FINISH					
	APPLICATION		DO NOT SCALE DRAWING					



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

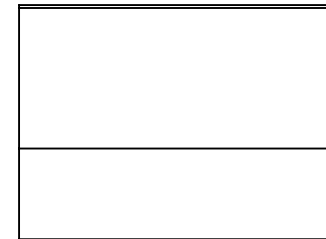
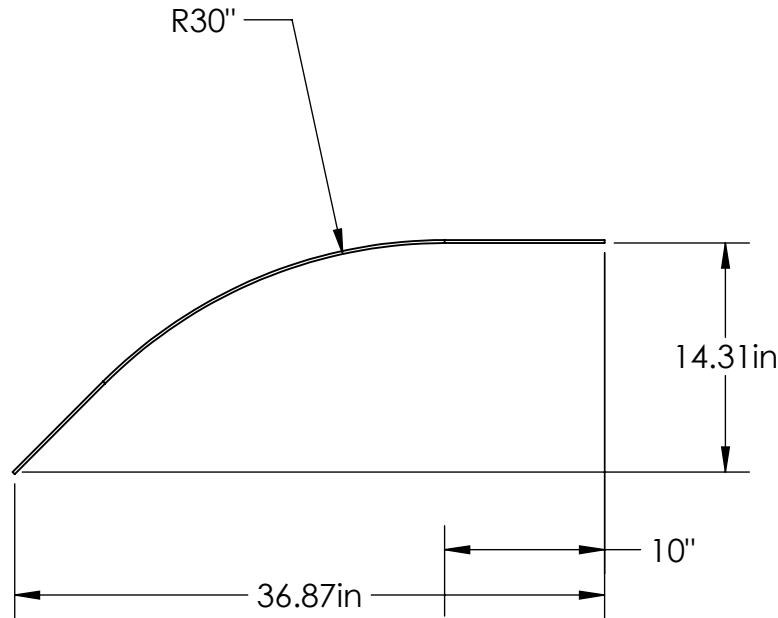
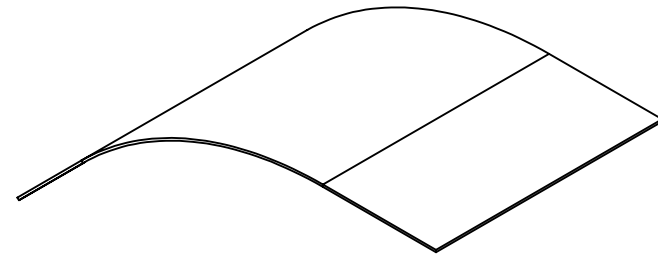
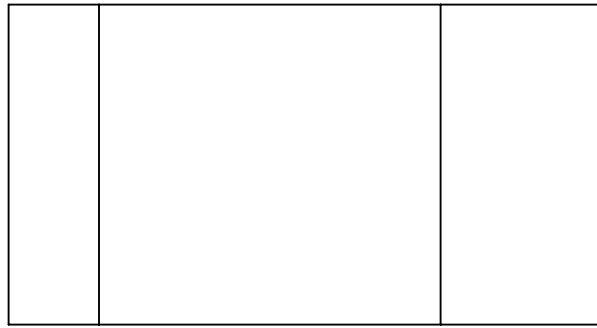
		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:
		DIMENSIONS ARE IN INCHES	DRAWN	JCS	11/18/2012
		TOLERANCES:	CHECKED		
		FRACTIONAL $\pm 1/16$	ENG APPR.		
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.		
		ONE PLACE DECIMAL $\pm .1$	Q.A.		
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:		
		THREE PLACE DECIMAL ± 0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100			
		MATERIAL			
		5052-H32			
NEXT ASSY	USED ON	FINISH			SIZE DWG. NO. REV
					A Tran_arc_sidewall_02 01
	APPLICATION	DO NOT SCALE DRAWING			SCALE: 1:12 WEIGHT: SHEET 3 OF 5



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	JCS
		TOLERANCES:	CHECKED	11/18/2012
		FRACTIONAL $\pm 1/16$	ENG APPR.	
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.	
		ONE PLACE DECIMAL $\pm .1$	Q.A.	
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:	
		THREE PLACE DECIMAL ± 0.030		
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100		
		MATERIAL		
		5052-H32		
NEXT ASSY	USED ON	FINISH		
APPLICATION		DO NOT SCALE DRAWING		

STOCK SIZE: 3/16"		
TITLE: TRANSITION ARC LID 1		
SIZE	DWG. NO.	REV
A	Tran_arc_1_02	01
SCALE: 1:12	WEIGHT:	SHEET 4 OF 5

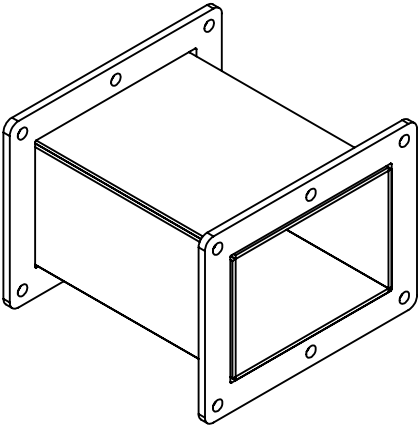


PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	JCS
		TOLERANCES:	CHECKED	11/18/2012
		FRACTIONAL ± 1/16	ENG APPR.	
		ANGULAR: MACH ±0.5 BEND ±2	MFG APPR.	
		ONE PLACE DECIMAL ±.1	Q.A.	
		TWO PLACE DECIMAL ±.06	COMMENTS:	
		THREE PLACE DECIMAL ±0.030		
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100		
		MATERIAL		
		5052-H32		
NEXT ASSY	USED ON	FINISH		
		APPLICATION		
		DO NOT SCALE DRAWING		

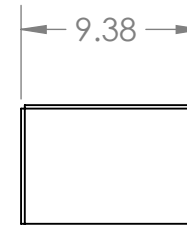
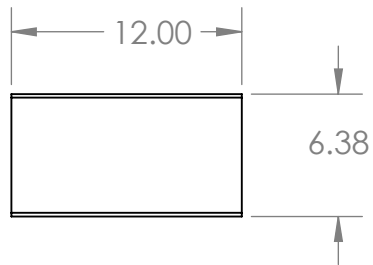
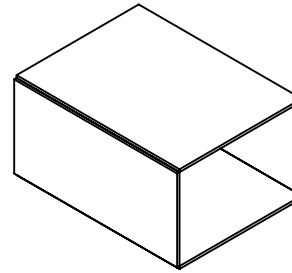
STOCK SIZE: 3/16"		
TITLE: TRANSITION ARC LID 2		
SIZE	DWG. NO.	REV
A	Tran_arc_lid_02	01
SCALE: 1:12	WEIGHT:	SHEET 5 OF 5

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Flange_006	Flange, 21"x9"	2
2	Channel_9in_Exit		1



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012	
		TOLERANCES:		CHECKED			TITLE:
		FRACTIONAL $\pm 1/16$		ENG APPR.			
		ANGULAR: MACH ± 0.5 BEND ± 2		MFG APPR.			
		ONE PLACE DECIMAL $\pm .1$		Q.A.			
		TWO PLACE DECIMAL $\pm .06$		COMMENTS:			
		THREE PLACE DECIMAL ± 0.030					
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					SIZE DWG. NO. REV
		MATERIAL					A Tran_Exit 01
NEXT ASSY	USED ON	FINISH					SCALE: 1:10 WEIGHT: SHEET 1 OF 5
APPLICATION		DO NOT SCALE DRAWING					



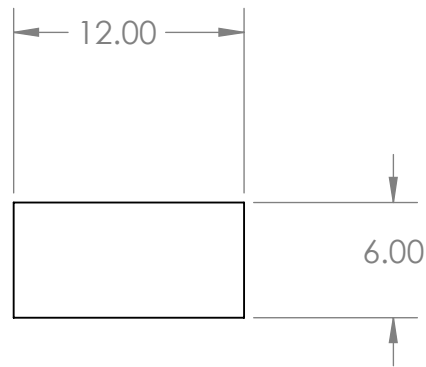
PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012	
		TOLERANCES:		CHECKED			TITLE:
		FRACTIONAL ± 1/16		ENG APPR.			
		ANGULAR: MACH ±0.5 BEND ±2		MFG APPR.			
		ONE PLACE DECIMAL ±.1		Q.A.			
		TWO PLACE DECIMAL ±.06		COMMENTS:			
		THREE PLACE DECIMAL ±0.030					
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					SIZE
		MATERIAL					DWG. NO.
NEXT ASSY	USED ON	FINISH					Channel_9in_Exit
APPLICATION		DO NOT SCALE DRAWING					REV
							01
							SCALE: 1:10
							WEIGHT:
							SHEET 2 OF 5



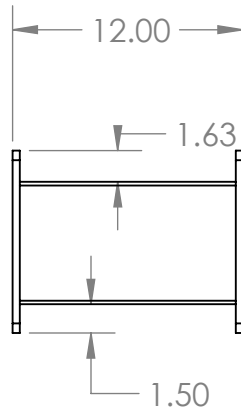
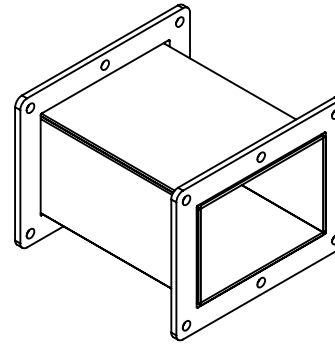
PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012	TITLE: FLAT-1
		TOLERANCES:	CHECKED			
		FRACTIONAL $\pm 1/16$	ENG APPR.			
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.			
		ONE PLACE DECIMAL $\pm .1$	Q.A.			SIZE DWG. NO. REV A Channel_9in_Exit 01
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:			
		THREE PLACE DECIMAL ± 0.030				SCALE: 1:10 WEIGHT: SHEET 3 OF 5
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100				
		MATERIAL				
NEXT ASSY	USED ON	FINISH				
APPLICATION		DO NOT SCALE DRAWING				



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012	
		TOLERANCES:	CHECKED			TITLE:
		FRACTIONAL $\pm 1/16$	ENG APPR.			FLAT-2
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.			
		ONE PLACE DECIMAL $\pm .1$	Q.A.			
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:			SIZE DWG. NO. REV
		THREE PLACE DECIMAL ± 0.030				A Channel_9in_Exit 01
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100				SCALE: 1:10 WEIGHT: SHEET 4 OF 5
		MATERIAL				
NEXT ASSY	USED ON	FINISH				
APPLICATION		DO NOT SCALE DRAWING				

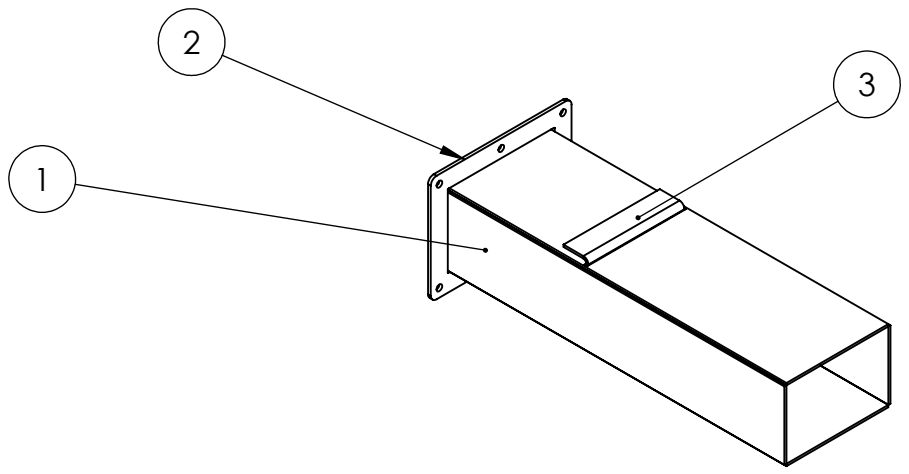


PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012	TITLE:
		TOLERANCES:		CHECKED			
		FRACTIONAL $\pm 1/16$		ENG APPR.			
		ANGULAR: MACH ± 0.5 BEND ± 2		MFG APPR.			
		ONE PLACE DECIMAL $\pm .1$		Q.A.			
		TWO PLACE DECIMAL $\pm .06$		COMMENTS:			SIZE
		THREE PLACE DECIMAL ± 0.030					DWG. NO.
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					Tran_Exit
		MATERIAL					REV
		FINISH					01
NEXT ASSY	USED ON						SCALE: 1:10
APPLICATION		DO NOT SCALE DRAWING					WEIGHT:
							SHEET 5 OF 5

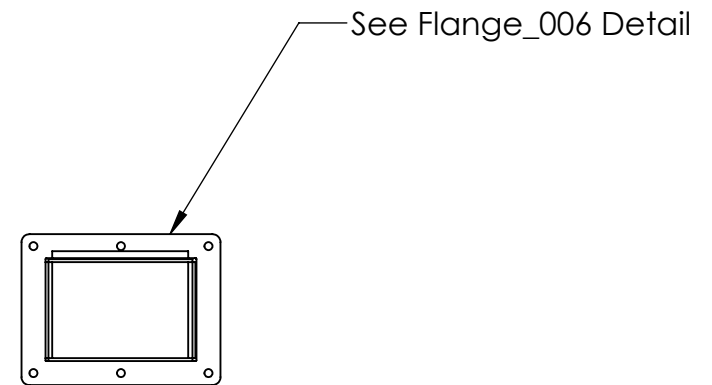
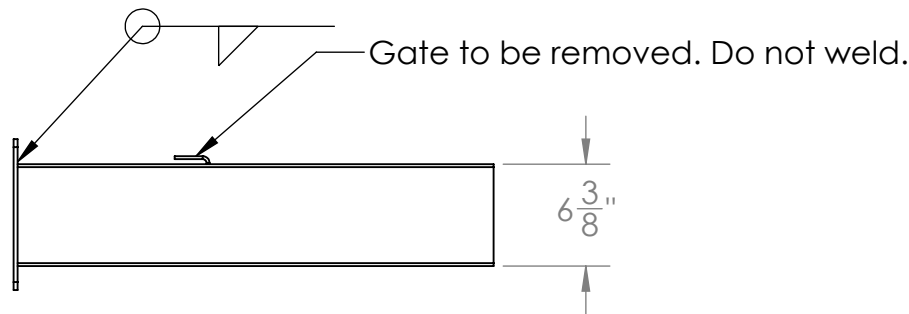
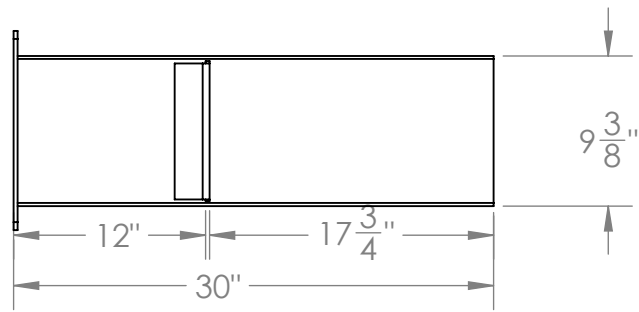
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Channel_9in_Exit	Trap Drop Chnl	1
2	Flange_006	Flange, 21"x9"	1
3	Slide Gate	Slide Gate	1



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

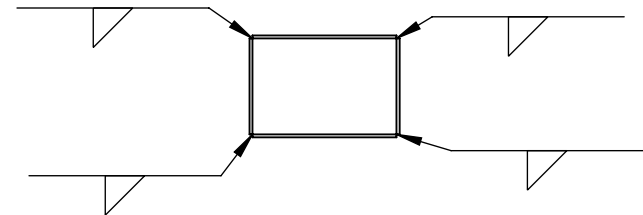
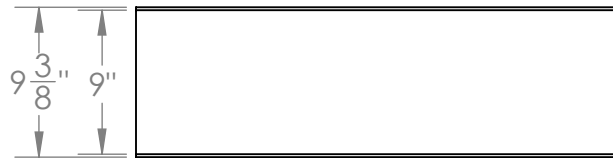
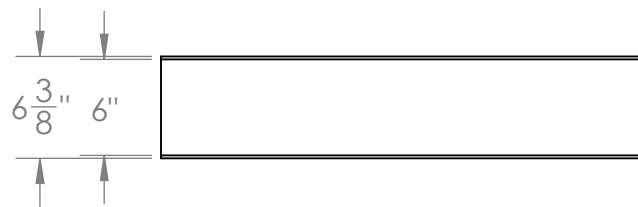
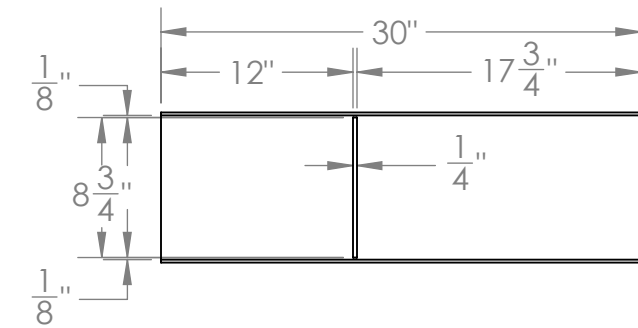
		UNLESS OTHERWISE SPECIFIED:	NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	JCS
		TOLERANCES:	CHECKED	11/18/2012
		FRACTIONAL $\pm 1/16$	ENG APPR.	
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.	
		ONE PLACE DECIMAL $\pm .1$	Q.A.	
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:	
		THREE PLACE DECIMAL ± 0.030		
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100		
		MATERIAL		
NEXT ASSY	USED ON	FINISH		
APPLICATION		DO NOT SCALE DRAWING		

STOCK SIZE:		
TITLE: Trap Exit		
SIZE	DWG. NO.	REV
A	TrapDrop	01
SCALE: 1:12	WEIGHT:	SHEET 1 OF 4



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

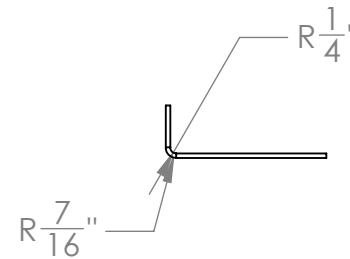
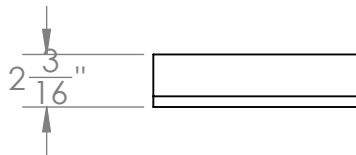
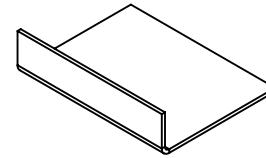
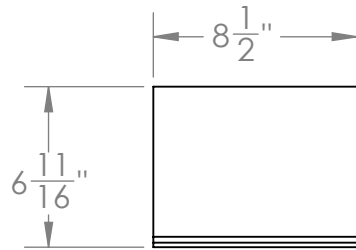
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES		DRAWN	JCS	11/18/2012	TITLE: Trap Exit
		TOLERANCES:		CHECKED			
		FRACTIONAL ± 1/16		ENG APPR.			
		ANGULAR: MACH ±0.5 BEND ±2		MFG APPR.			
		ONE PLACE DECIMAL ±.1		Q.A.			
		TWO PLACE DECIMAL ±.06		COMMENTS:			SIZE DWG. NO. REV
		THREE PLACE DECIMAL ±0.030					A TrapDrop 01
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					SCALE: 1:12 WEIGHT: SHEET 2 OF 4
		MATERIAL					
NEXT ASSY		USED ON					
APPLICATION		DO NOT SCALE DRAWING					



PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

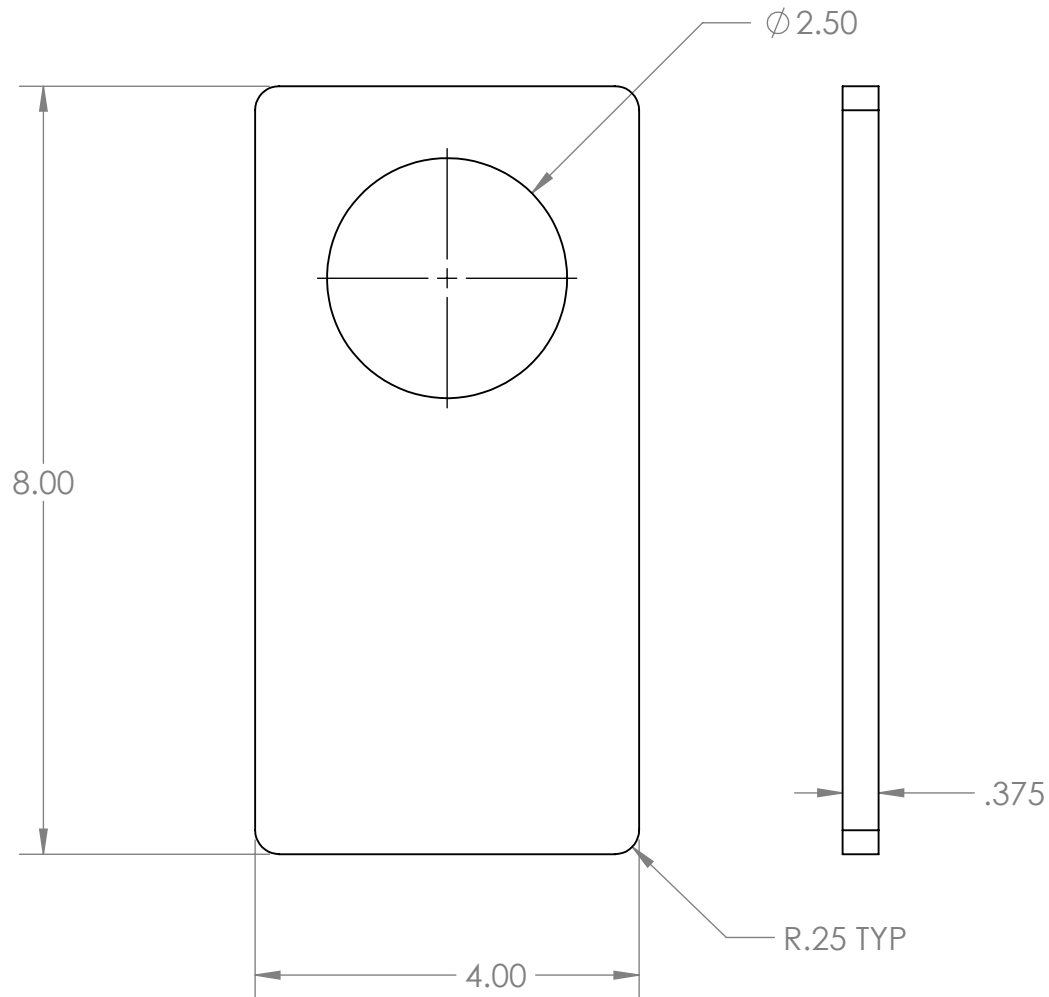
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE: 3/16"	
		DIMENSIONS ARE IN INCHES		DRAWN	JCS	11/18/2012	
		TOLERANCES:		CHECKED			
		FRACTIONAL ± 1/16		ENG APPR.			
		ANGULAR: MACH ± 0.5 BEND ± 2		MFG APPR.			
		ONE PLACE DECIMAL ± .1		Q.A.			
		TWO PLACE DECIMAL ± .06		COMMENTS:			
		THREE PLACE DECIMAL ± 0.030					
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					
		MATERIAL				SIZE	DWG. NO.
		5052-H32				A	Channel_9in_Exit
		FINISH					REV
NEXT ASSY	USED ON						01
APPLICATION		DO NOT SCALE DRAWING				SCALE: 1:12	WEIGHT:
							SHEET 3 OF 4



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	JCS
		TOLERANCES:	CHECKED	11/18/2012
		FRACTIONAL $\pm 1/16$	ENG APPR.	
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.	
		ONE PLACE DECIMAL $\pm .1$	Q.A.	
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:	
		THREE PLACE DECIMAL ± 0.030		
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100		
		MATERIAL		
		5052-H32		
NEXT ASSY	USED ON	FINISH		
APPLICATION		DO NOT SCALE DRAWING		

STOCK SIZE:			3/16"
TITLE:			Slide Gate
SIZE	DWG. NO.	REV	
A	Slide Gate	01	
SCALE: 1:8	WEIGHT:	SHEET 4 OF 4	

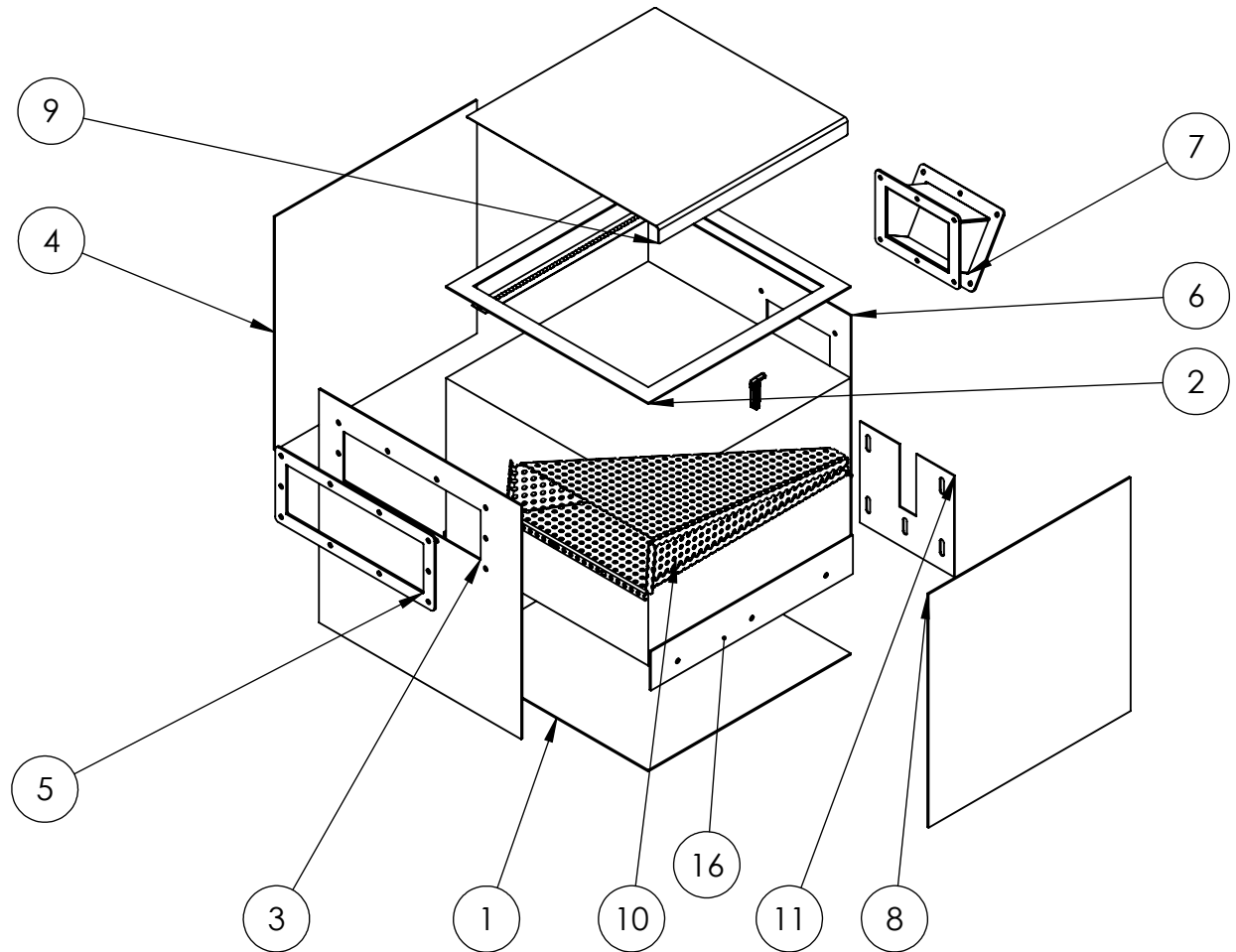


PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012
		TOLERANCES:	CHECKED		
		FRACTIONAL ± 1/16	ENG APPR.		
		ANGULAR: MACH ±0.5 BEND ±2	MFG APPR.		
		ONE PLACE DECIMAL ±.1	Q.A.		
		TWO PLACE DECIMAL ±.06	COMMENTS:		
		THREE PLACE DECIMAL ±0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100			
		MATERIAL			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

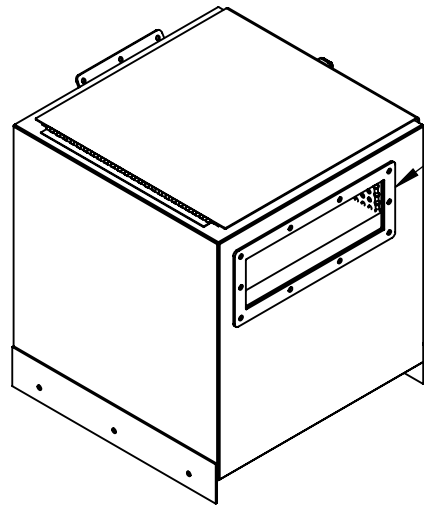
STOCK SIZE:		
TITLE:		
SIZE	DWG. NO.	REV
A	Lift_Plate	01
SCALE: 1:2	WEIGHT:	SHEET 1 OF 1

ITEM NO.	PART NUMBER	QTY.
1	UPWELLING_001-2	1
2	UPWELLING_001-4	1
3	UPWELLING_001-3	1
4	UPWELLING_001-11	1
5	Flange_005	1
6	UPWELLING_001-8	1
7	UPWELLING-003	1
8	UPWELLING_001-15	1
9	UPWELLING_001-5	1
10	UPWELLING_002	1
11	UPWELLING_001-18	1
12	1581A483	1
13	12065A630-Handle	1
14	1581A154	1
15	Part2^Upwelling_Box	1
16	UPWELLING_001-19	2



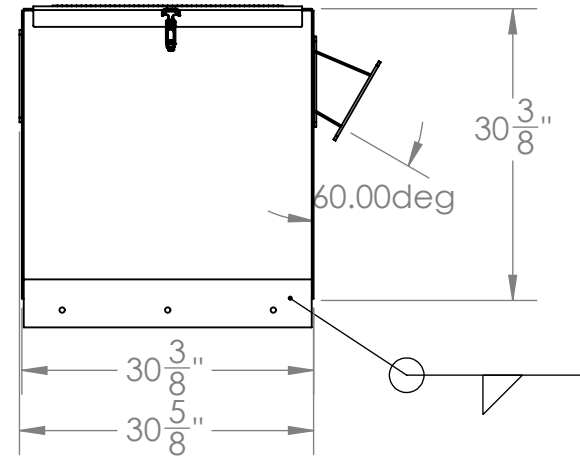
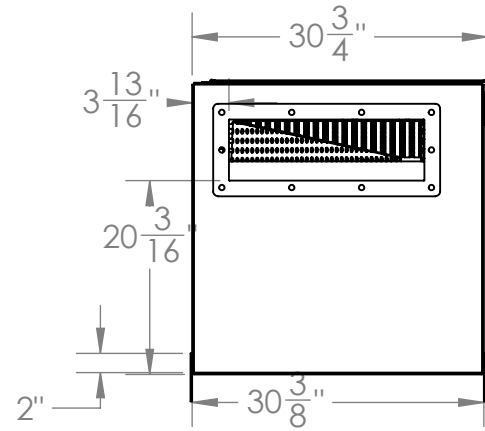
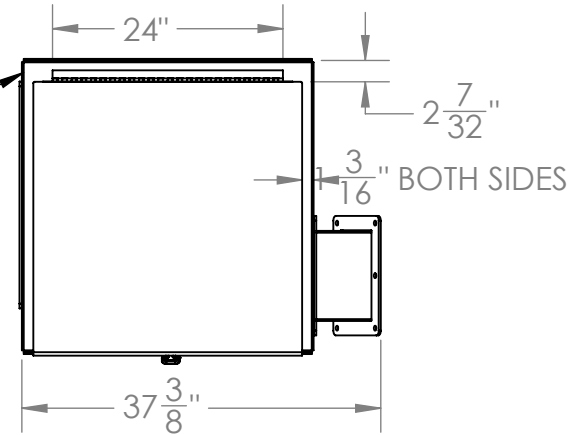
PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES		DRAWN	JCS	11/18/2012	TITLE: Upwelling Box
		TOLERANCES:		CHECKED			
		FRACTIONAL $\pm 1/16$		ENG APPR.			
		ANGULAR: MACH ± 0.5 BEND ± 2		MFG APPR.			
		ONE PLACE DECIMAL $\pm .1$		Q.A.			SIZE DWG. NO. REV A Upwelling_Box 01
		TWO PLACE DECIMAL $\pm .06$		COMMENTS:			
		THREE PLACE DECIMAL ± 0.030					
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					
		MATERIAL					
NEXT ASSY	USED ON	FINISH					
APPLICATION		DO NOT SCALE DRAWING				SCALE: 1:20 WEIGHT: SHEET 1 OF 15	



See Flange_005 Detail

All Sides

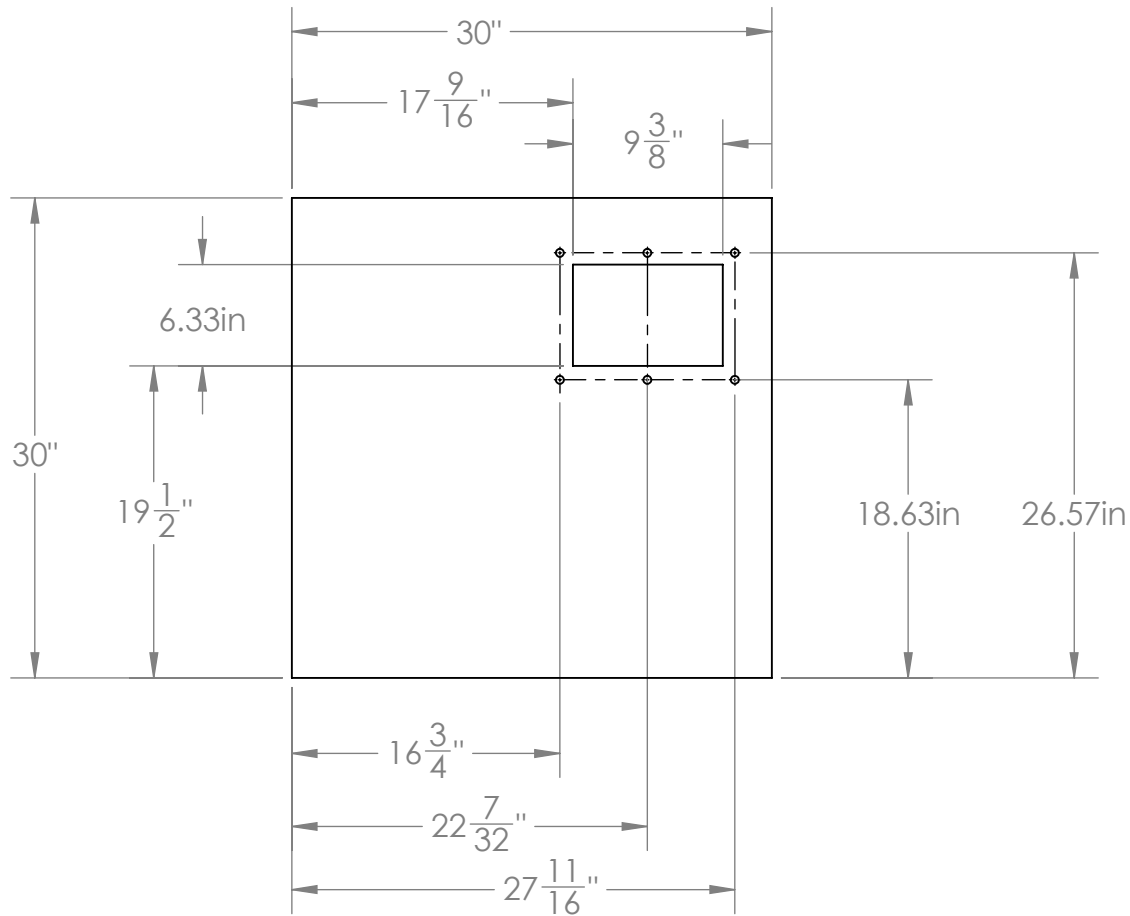


PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	JCS
		TOLERANCES:	CHECKED	11/18/2012
		FRACTIONAL ± 1/16	ENG APPR.	
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.	
		ONE PLACE DECIMAL ± .1	Q.A.	
		TWO PLACE DECIMAL ± .06	COMMENTS:	
		THREE PLACE DECIMAL ± 0.030		
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100		
		MATERIAL		
NEXT ASSY	USED ON	FINISH		
APPLICATION		DO NOT SCALE DRAWING		

STOCK SIZE:		
TITLE: Upwelling Box		
SIZE A	DWG. NO. Upwelling_Box	REV 01
SCALE: 1:20	WEIGHT:	SHEET 2 OF 15

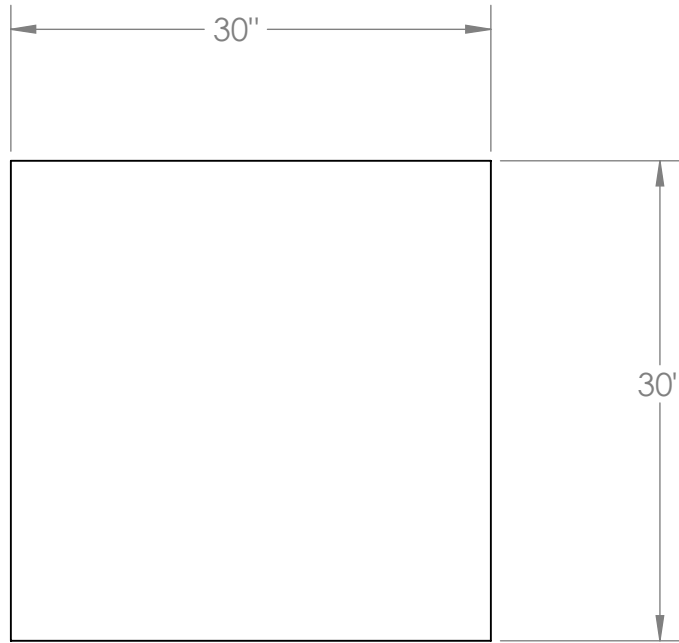


PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	JCS	11/18/2012
		TOLERANCES:	CHECKED		
		FRACTIONAL $\pm 1/16$	ENG APPR.		
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.		
		ONE PLACE DECIMAL $\pm .1$	Q.A.		
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:		
		THREE PLACE DECIMAL ± 0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100			
		MATERIAL			
		5052-H32			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

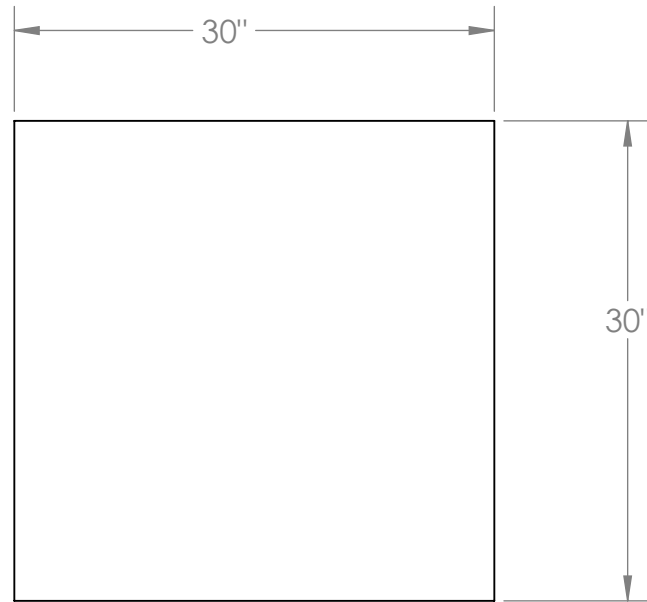
STOCK SIZE: 3/16"		
TITLE: UPWELLING BOX WALL 1/4		
SIZE	DWG. NO.	REV
A	UPWELLING_001-8	01
SCALE: 1:12	WEIGHT:	SHEET 3 OF 15



PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE: 3/16"	
		DIMENSIONS ARE IN INCHES	DRAWN	JCS	11/18/2012	TITLE: UPWELLING BOX WALL 2/4
		TOLERANCES:	CHECKED			
		FRACTIONAL ± 1/16	ENG APPR.			
		ANGULAR: MACH ±0.5 BEND ±2	MFG APPR.			
		ONE PLACE DECIMAL ±.1	Q.A.			
		TWO PLACE DECIMAL ±.06	COMMENTS:			SIZE DWG. NO. REV
		THREE PLACE DECIMAL ±0.030				A UPWELLING_001-15 01
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100				SCALE: 1:12 WEIGHT: SHEET 4 OF 15
		MATERIAL				
		5052-H32				
		FINISH				
NEXT ASSY	USED ON					
APPLICATION		DO NOT SCALE DRAWING				

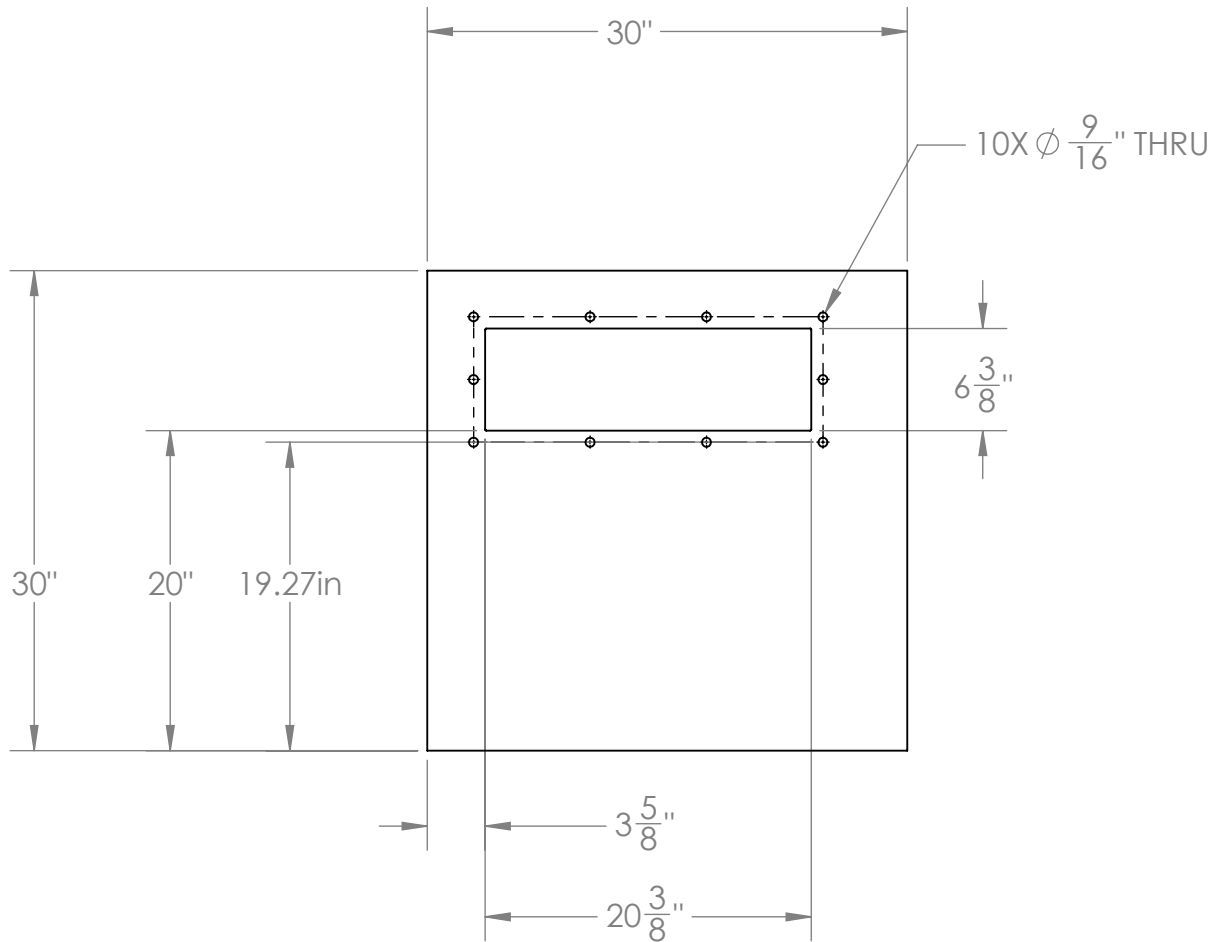


PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	JCS	11/18/2012
		TOLERANCES:	CHECKED		
		FRACTIONAL $\pm 1/16$	ENG APPR.		
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.		
		ONE PLACE DECIMAL $\pm .1$	Q.A.		
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:		
		THREE PLACE DECIMAL ± 0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100			
		MATERIAL			
		5052-H32			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

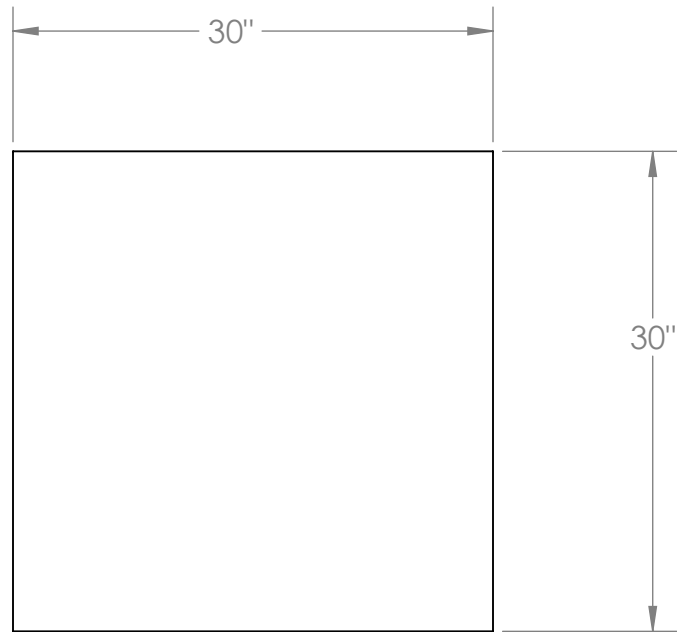
STOCK SIZE: 3/16"		
TITLE: UPWELLING BOX WALL 3/4		
SIZE	DWG. NO.	REV
A	UPWELLING_001-11	01
SCALE: 1:12	WEIGHT:	SHEET 5 OF 15



PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE: 3/16"	
		DIMENSIONS ARE IN INCHES	DRAWN	JCS	11/18/2012	TITLE: UPWELLING BOX WALL 4/4
		TOLERANCES:	CHECKED			
		FRACTIONAL ± 1/16	ENG APPR.			
		ANGULAR: MACH ±0.5 BEND ±2	MFG APPR.			
		ONE PLACE DECIMAL ±.1	Q.A.			SIZE DWG. NO. REV A UPWELLING_001-3 01
		TWO PLACE DECIMAL ±.06	COMMENTS:			
		THREE PLACE DECIMAL ±0.030				SCALE: 1:12 WEIGHT: SHEET 6 OF 15
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100				
		MATERIAL				
		5052-H32				
		FINISH				
NEXT ASSY	USED ON					
APPLICATION		DO NOT SCALE DRAWING				

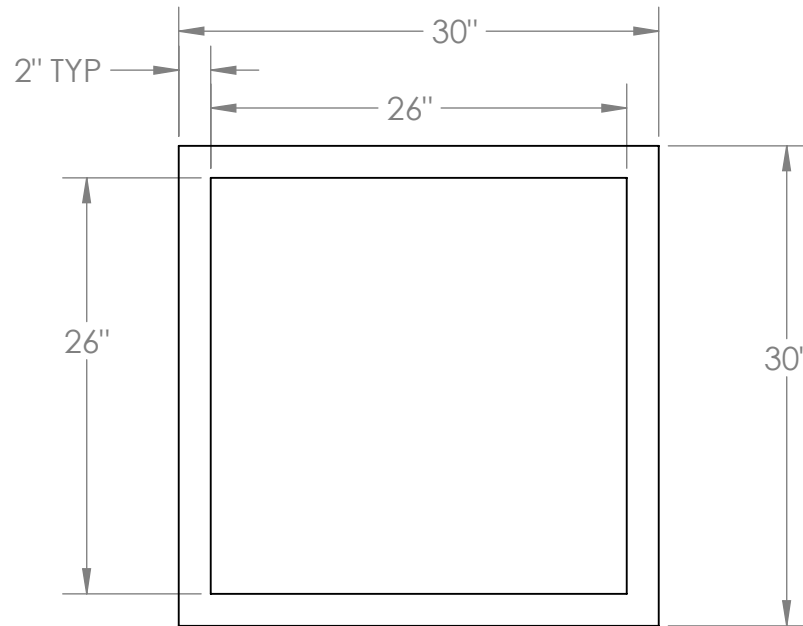


PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

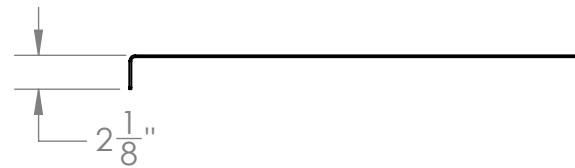
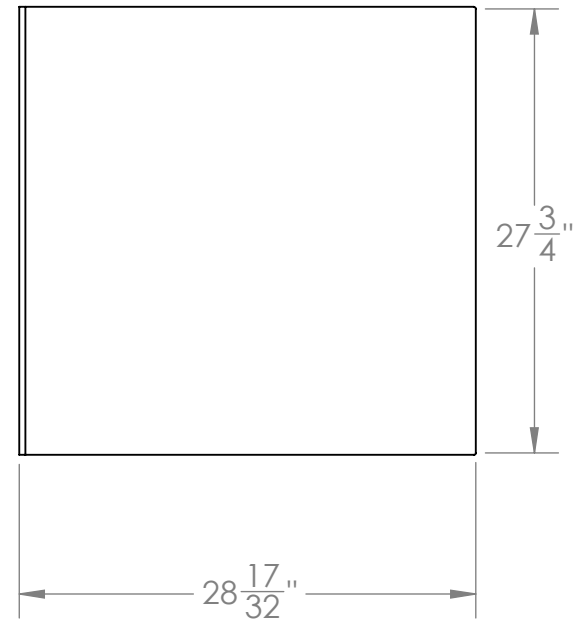
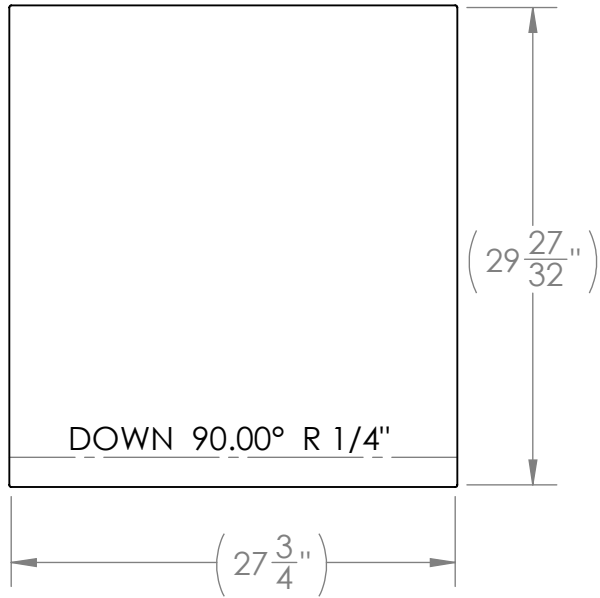
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	JCS	11/18/2012
		TOLERANCES:	CHECKED		
		FRACTIONAL $\pm 1/16$	ENG APPR.		
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.		
		ONE PLACE DECIMAL $\pm .1$	Q.A.		
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:		
		THREE PLACE DECIMAL ± 0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100			
		MATERIAL			
		5052-H32			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

STOCK SIZE: 3/16"		
TITLE: UPWELLING BOX BASE		
SIZE	DWG. NO.	REV
A	UPWELLING_001-2	01
SCALE: 1:12	WEIGHT:	SHEET 7 OF 15



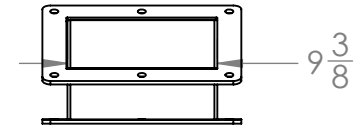
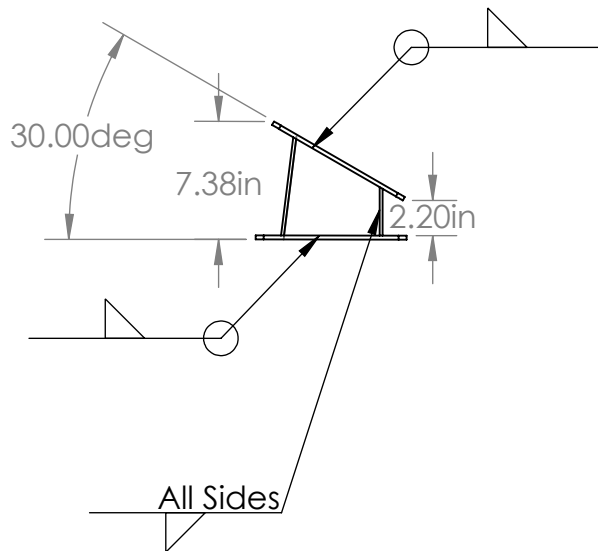
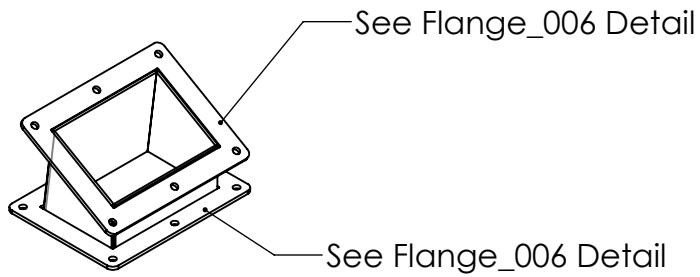
PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE: 3/16"	
		DIMENSIONS ARE IN INCHES		DRAWN	JCS	11/18/2012	TITLE: UPWELLING BOX LID-1
		TOLERANCES:		CHECKED			
		FRACTIONAL ± 1/16		ENG APPR.			
		ANGULAR: MACH ±0.5 BEND ±2		MFG APPR.			
		ONE PLACE DECIMAL ±.1		Q.A.			SIZE DWG. NO. REV A UPWELLING_001-4 01
		TWO PLACE DECIMAL ±.06		COMMENTS:			
		THREE PLACE DECIMAL ±0.030					SCALE: 1:12 WEIGHT: SHEET 8 OF 15
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					
		MATERIAL					
		5052-H32					
NEXT ASSY		USED ON					
APPLICATION		DO NOT SCALE DRAWING					



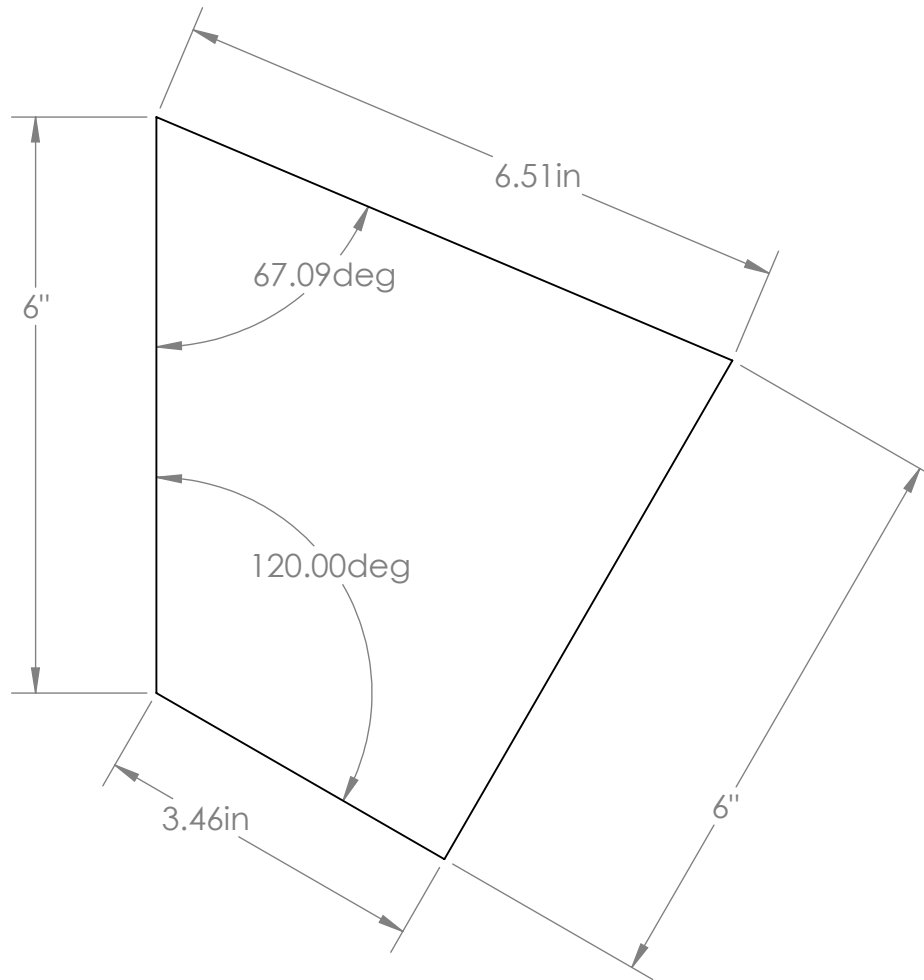
PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:		
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/18/2012	0.125	
		TOLERANCES:		CHECKED			TITLE:	
		FRACTIONAL ± 1/16		ENG APPR.			UPWELLING BOX LID 2	
		ANGULAR: MACH ±0.5 BEND ±2		MFG APPR.				
		ONE PLACE DECIMAL ±.1		Q.A.				
		TWO PLACE DECIMAL ±.06		COMMENTS:				
		THREE PLACE DECIMAL ±0.030						
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100						
		MATERIAL				SIZE	DWG. NO.	REV
		AL 5052-H32				A	UPWELLING_001-5	01
NEXT ASSY	USED ON	FINISH				SCALE: 1:12	WEIGHT:	SHEET 9 OF 15
APPLICATION		DO NOT SCALE DRAWING						



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

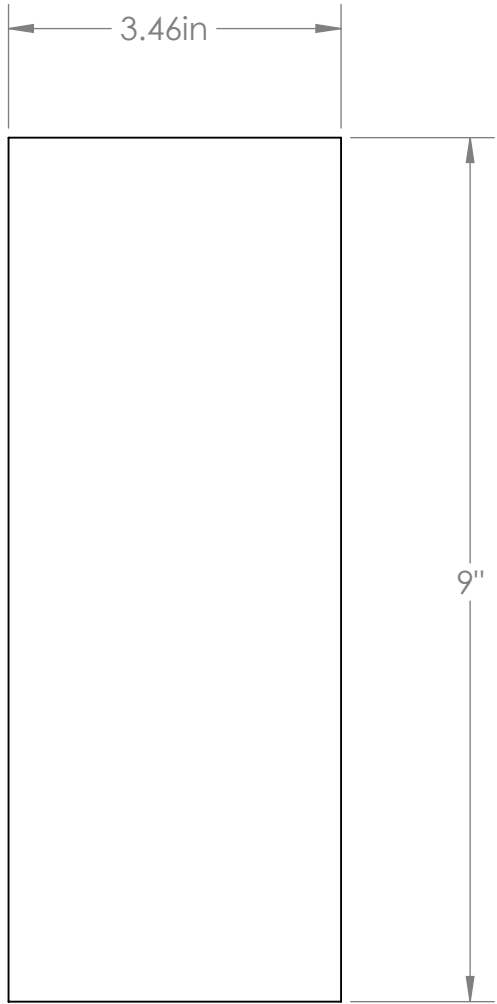
		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/18/2012	TITLE: Upwelling Exit
		TOLERANCES:	CHECKED			
		FRACTIONAL ± 1/16	ENG APPR.			
		ANGULAR: MACH ±0.5 BEND ±2	MFG APPR.			
		ONE PLACE DECIMAL ±.1	Q.A.			
		TWO PLACE DECIMAL ±.06	COMMENTS:			
		THREE PLACE DECIMAL ±0.030				
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100				SIZE DWG. NO. REV
		MATERIAL				A UPWELLING-003 01
		FINISH				SCALE: 1:12 WEIGHT: SHEET 10 OF 15
	NEXT ASSY	USED ON				
	APPLICATION					
		DO NOT SCALE DRAWING				



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	JCS	11/18/2012
		TOLERANCES:	CHECKED		
		FRACTIONAL ± 1/16	ENG APPR.		
		ANGULAR: MACH ±0.5 BEND ±2	MFG APPR.		
		ONE PLACE DECIMAL ±.1			
		TWO PLACE DECIMAL ±.06			
		THREE PLACE DECIMAL ±0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100	Q.A.		
		MATERIAL	COMMENTS:		
		5052-H32			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

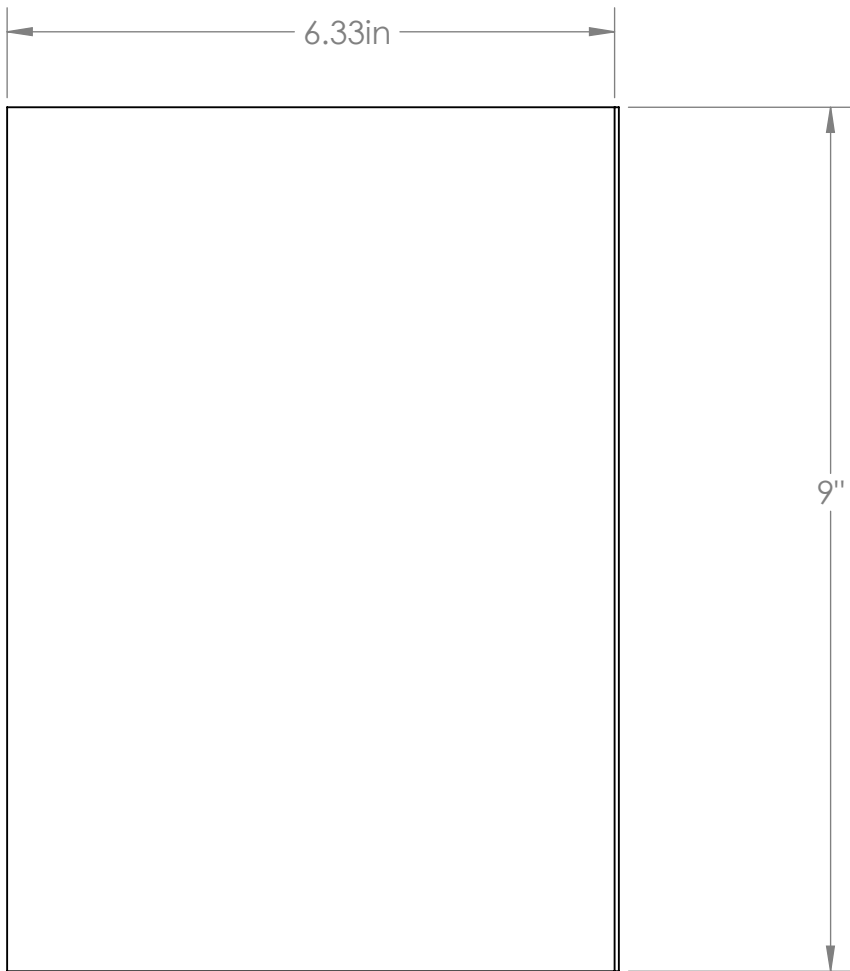
STOCK SIZE: 3/16"		
TITLE: EXIT FROM UPWELLING BOX		
SIZE	DWG. NO.	REV
A	Upwelling_Tran_01	01
SCALE: 1:2	WEIGHT:	SHEET 11 OF 15



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	JCS
		TOLERANCES:	CHECKED	11/18/2012
		FRACTIONAL ± 1/16	ENG APPR.	
		ANGULAR: MACH ±0.5 BEND ±2	MFG APPR.	
		ONE PLACE DECIMAL ±.1	Q.A.	
		TWO PLACE DECIMAL ±.06	COMMENTS:	
		THREE PLACE DECIMAL ±0.030		
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100		
		MATERIAL		
		5052-H32		
NEXT ASSY	USED ON	FINISH		
APPLICATION		DO NOT SCALE DRAWING		

STOCK SIZE:		3/16"	
TITLE:			
EXIT RAMP			
SIZE	DWG. NO.	REV	
A	UPWELLING_001-13	01	
SCALE: 1:2	WEIGHT:	SHEET 12 OF 15	

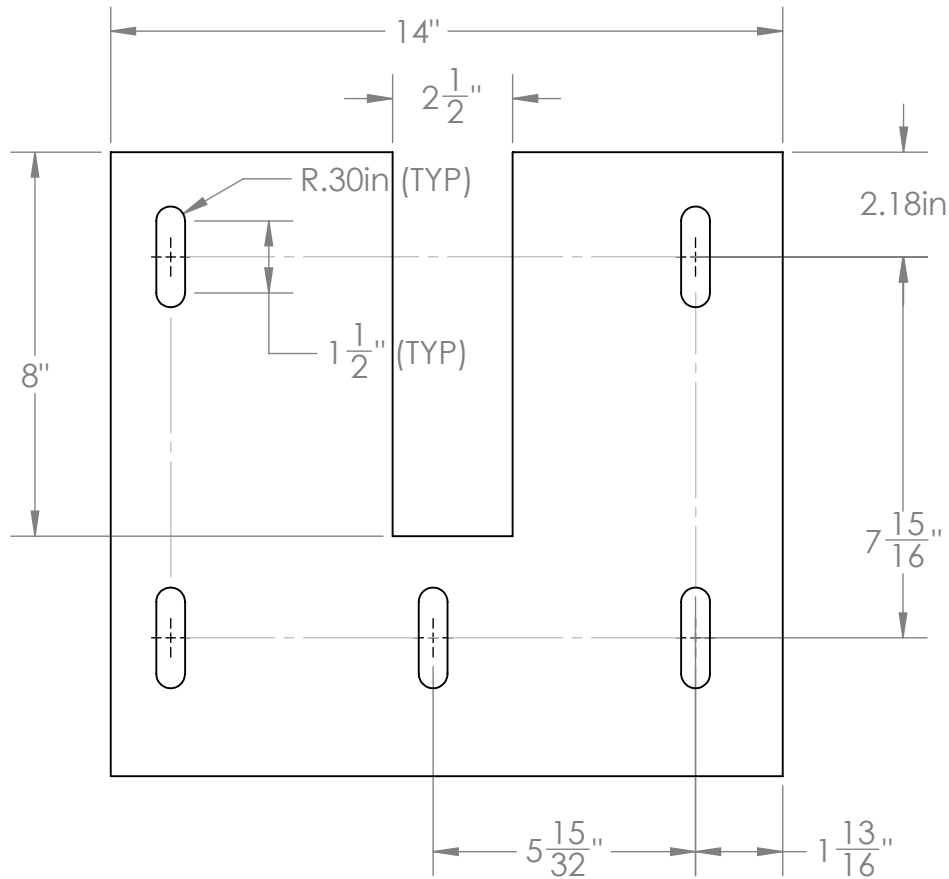


PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

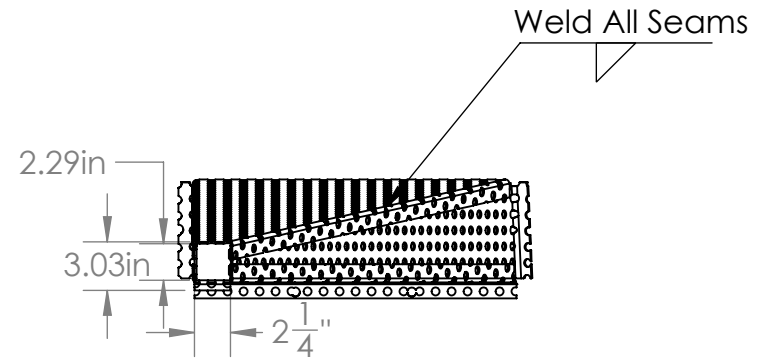
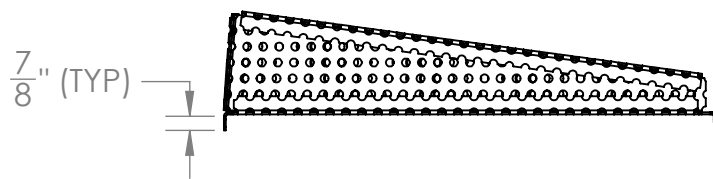
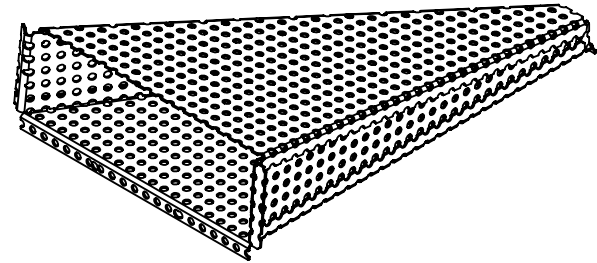
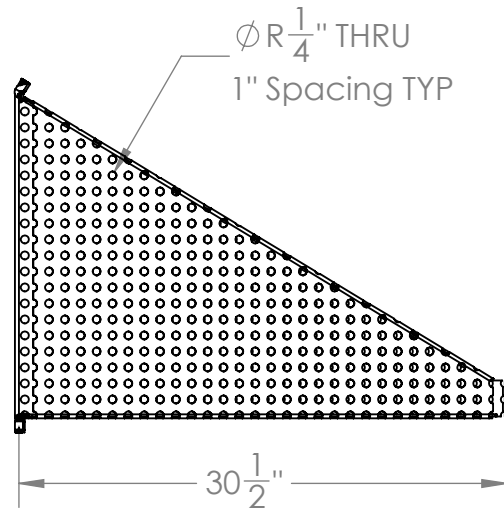
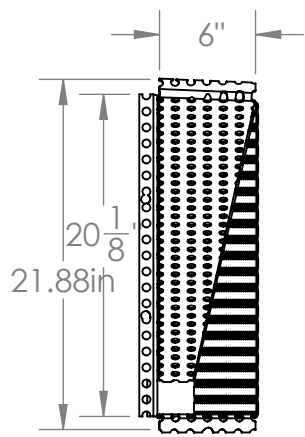
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	JCS	11/18/2012
		TOLERANCES:	CHECKED		
		FRACTIONAL ± 1/16	ENG APPR.		
		ANGULAR: MACH ±0.5 BEND ±2	MFG APPR.		
		ONE PLACE DECIMAL ±.1	Q.A.		
		TWO PLACE DECIMAL ±.06	COMMENTS:		
		THREE PLACE DECIMAL ±0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100			
		MATERIAL			
		5052-H32			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

STOCK SIZE:			3/16"
TITLE:			
EXIT RAMP LID			
SIZE	DWG. NO.	REV	
A	UPWELLING_001-16	01	
SCALE: 1:2	WEIGHT:	SHEET 13 OF 15	



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES		DRAWN	JCS	11/18/2012	1/8"
		TOLERANCES:		CHECKED			TITLE:
		FRACTIONAL ± 1/16		ENG APPR.			UPWELLING WEIR
		ANGULAR: MACH ±0.5 BEND ±2		MFG APPR.			
		ONE PLACE DECIMAL ±.1		Q.A.			
		TWO PLACE DECIMAL ±.06		COMMENTS:			
		THREE PLACE DECIMAL ±0.030					
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					SIZE DWG. NO. REV
		MATERIAL					A UPWELLING_001-18 01
		5052-H32					SCALE: 1:4 WEIGHT: SHEET 14 OF 15
NEXT ASSY		USED ON					
APPLICATION		DO NOT SCALE DRAWING					

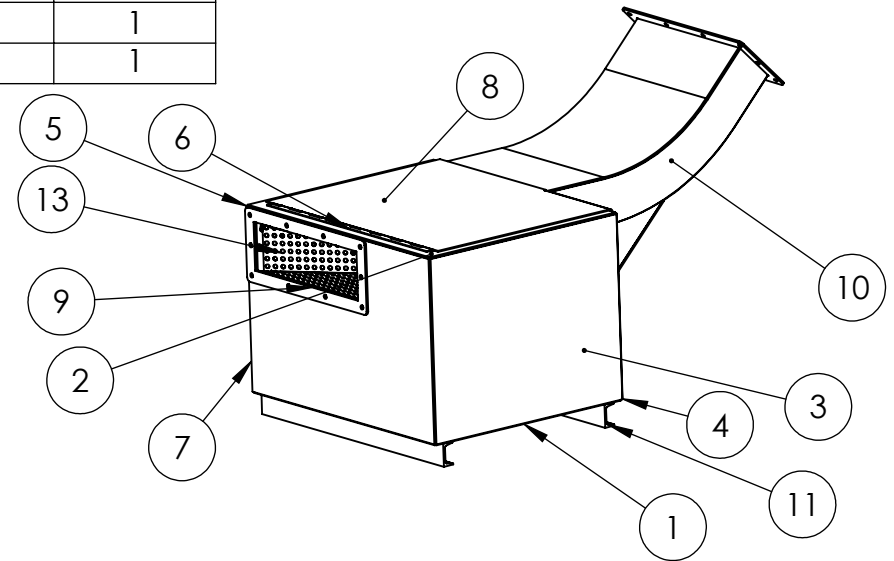


PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	JCS
		TOLERANCES:	CHECKED	11/18/2012
		FRACTIONAL ± 1/16	ENG APPR.	
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.	
		ONE PLACE DECIMAL ± .1	Q.A.	
		TWO PLACE DECIMAL ± .06	COMMENTS:	
		THREE PLACE DECIMAL ± 0.030		
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100		
		MATERIAL		
		5052-H32		
		FINISH		
NEXT ASSY	USED ON			
APPLICATION		DO NOT SCALE DRAWING		

STOCK SIZE:		
1/8"		
TITLE:		
Upwelling Fyke		
SIZE	DWG. NO.	REV
A	UPWELLING_002	01
SCALE: 1:12	WEIGHT:	SHEET 15 OF 15

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Rest_Box_002-2	REST BOX BASE	1
2	Rest_Box_002-4	REST BOX LID-1	1
3	Rest_Box_002-3	REST BOX WALL 3/4	1
4	Rest_Box_002-11	REST BOX WALL 2/4	1
5	Rest_Box_002-8	REST BOX WALL 1/4	1
6	CA12520096_32in_cut	32" hinge cut from Aluminum Piano Hinge Monroe 8'	1
7	Rest_Box_002-12	REST BOX WALL 4/4	1
8	REST_BOX_002-1	REST BOX LID 2	1
9	Flange_005	Flange, 21"x8"	1
10	Transition box2	TRANSITION REST BOX OUT	1
11	Box Beam	REST BOX SUPPORT	2
12	Rest_Box_002-15	REST BOX WALL 2/4	1
13	Fyke-003	REST BOX FYKE	1

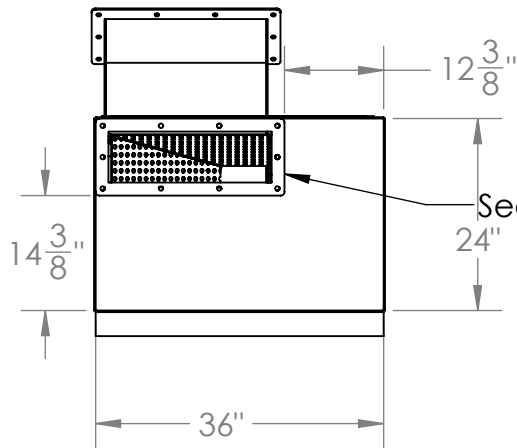
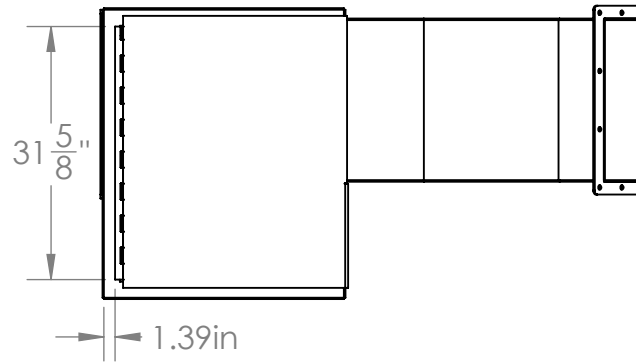
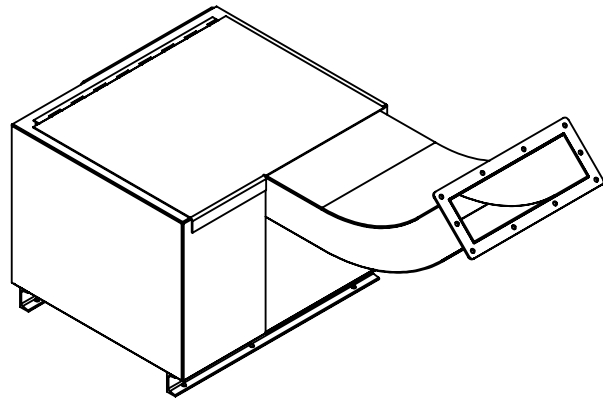


PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

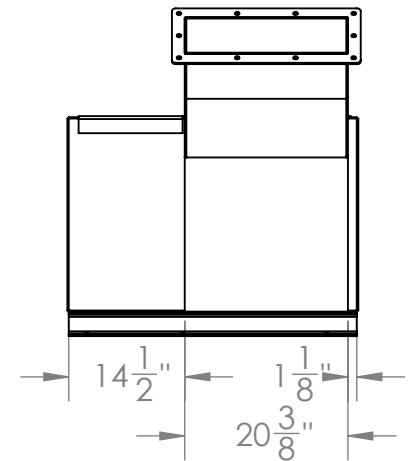
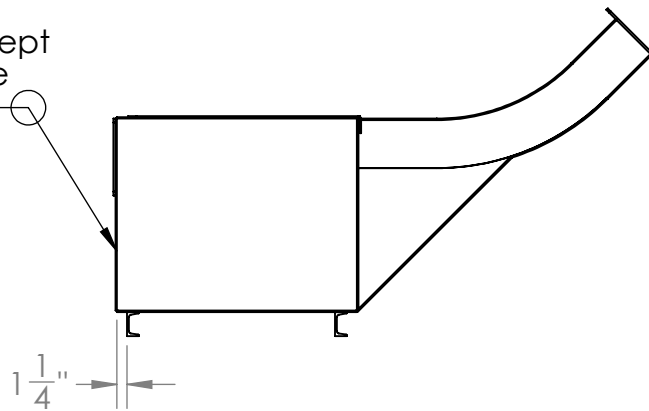
		UNLESS OTHERWISE SPECIFIED:	NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	JCS 11/18/2012
		TOLERANCES:	CHECKED	
		FRACTIONAL ± 1/16	ENG APPR.	
		ANGULAR: MACH ±0.5 BEND ±2	MFG APPR.	
		ONE PLACE DECIMAL ±.1	Q.A.	
		TWO PLACE DECIMAL ±.06	COMMENTS:	
		THREE PLACE DECIMAL ±0.030		
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100		
		MATERIAL		
NEXT ASSY	USED ON	FINISH		
APPLICATION		DO NOT SCALE DRAWING		

STOCK SIZE:		
TITLE: Rest Box		
SIZE A	DWG. NO. Sheetmetal_Rest_Box	REV 01
SCALE: 1:24	WEIGHT:	SHEET 1 OF 11



All Parts Except
Lid and Fyke

See Flange_005 Detail

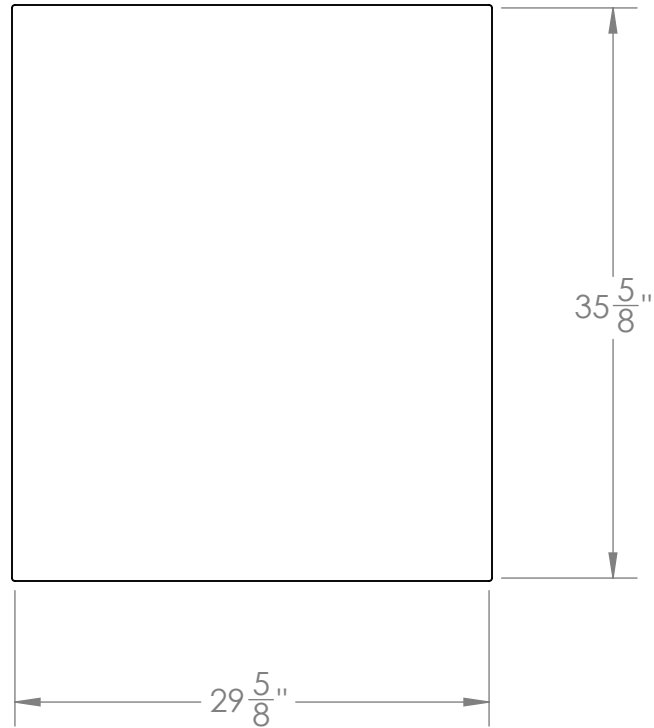


PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

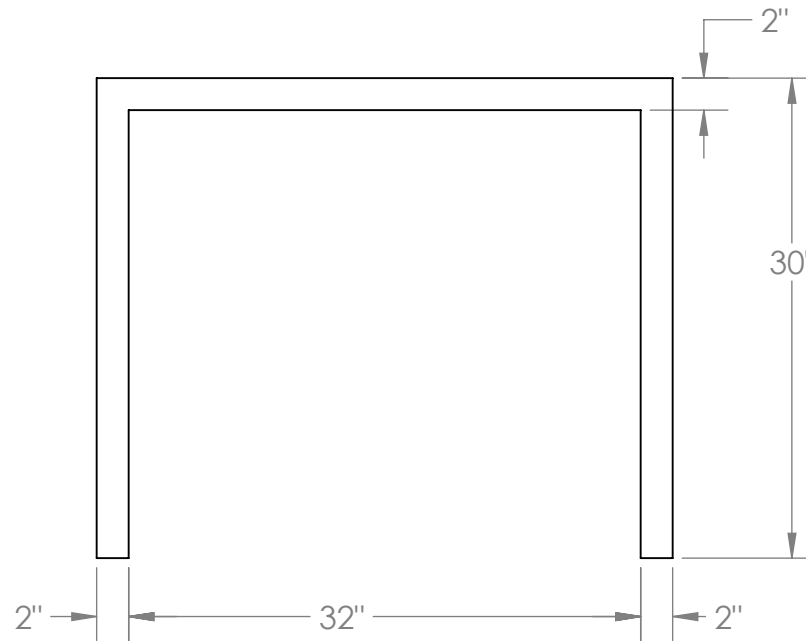
		UNLESS OTHERWISE SPECIFIED:	NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	JCS 11/18/2012
		TOLERANCES:	CHECKED	
		FRACTIONAL ± 1/16	ENG APPR.	
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.	
		ONE PLACE DECIMAL ± .1	Q.A.	
		TWO PLACE DECIMAL ± .06	COMMENTS:	
		THREE PLACE DECIMAL ± 0.030		
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100		
		MATERIAL		
NEXT ASSY	USED ON	FINISH		
APPLICATION		DO NOT SCALE DRAWING		

STOCK SIZE:		
TITLE: Rest Box		
SIZE A	DWG. NO. Sheetmetal_Rest_Box	REV 01
SCALE: 1:24	WEIGHT:	SHEET 2 OF 11



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

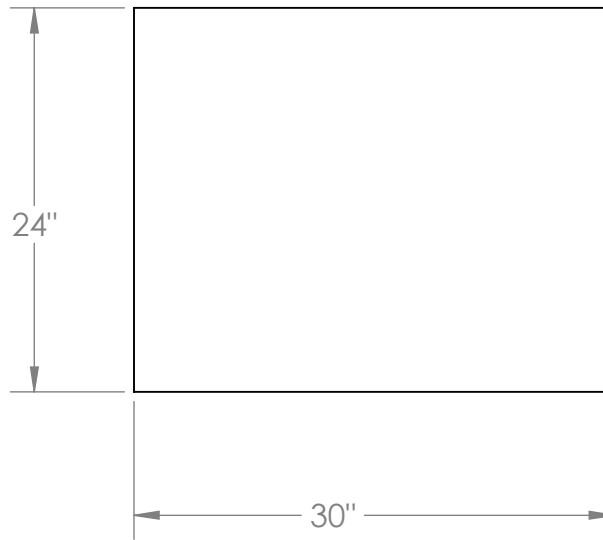
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE: 3/16"	
		DIMENSIONS ARE IN INCHES	DRAWN	JCS	11/18/2012	TITLE: REST BOX BASE	
		TOLERANCES:	CHECKED				
		FRACTIONAL $\pm 1/16$	ENG APPR.				
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.				
		ONE PLACE DECIMAL $\pm .1$	Q.A.			SIZE DWG. NO. REV	
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:			A Rest_Box_002-2 01	
		THREE PLACE DECIMAL ± 0.030				SCALE: 1:12 WEIGHT: SHEET 3 OF 11	
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					
		MATERIAL					
		5052-H32					
		FINISH					
NEXT ASSY	USED ON						
APPLICATION		DO NOT SCALE DRAWING					



PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE: 3/16"		
		DIMENSIONS ARE IN INCHES		DRAWN	JCS	11/18/2012		
		TOLERANCES:		CHECKED		TITLE: REST BOX LID-1		
		FRACTIONAL ± 1/16		ENG APPR.				
		ANGULAR: MACH ±0.5 BEND ±2		MFG APPR.				
		ONE PLACE DECIMAL ±.1		Q.A.				
		TWO PLACE DECIMAL ±.06		COMMENTS:				
		THREE PLACE DECIMAL ±0.030				SIZE	DWG. NO.	REV
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100				A	Rest_Box_002-4	01
		MATERIAL				SCALE: 1:12	WEIGHT:	SHEET 4 OF 11
		5052-H32						
NEXT ASSY		USED ON						
APPLICATION		DO NOT SCALE DRAWING						

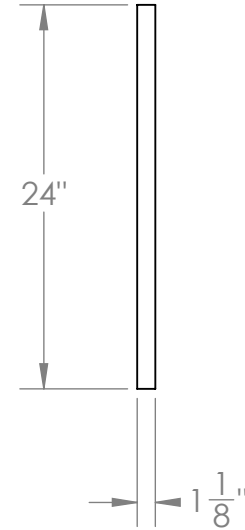
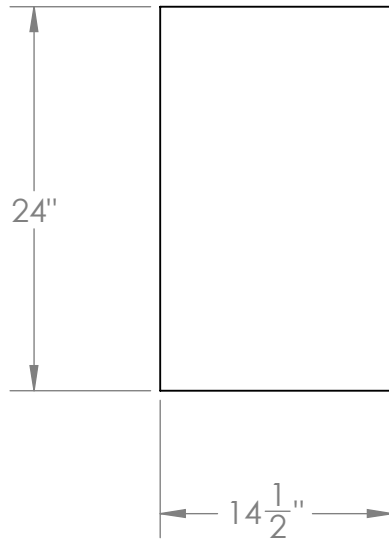


PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

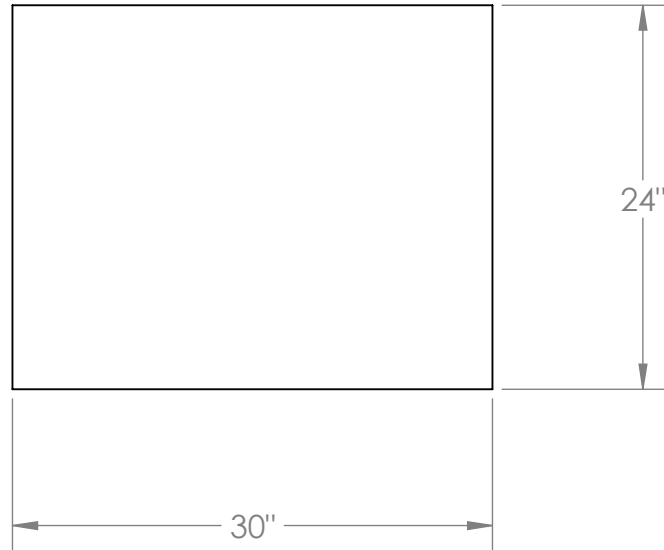
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	JCS	11/18/2012
		TOLERANCES:	CHECKED		
		FRACTIONAL $\pm 1/16$	ENG APPR.		
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.		
		ONE PLACE DECIMAL $\pm .1$	Q.A.		
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:		
		THREE PLACE DECIMAL ± 0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100			
		MATERIAL			
		5052-H32			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

STOCK SIZE:			3/16"		
TITLE:					
REST BOX WALL 1/4					
SIZE	DWG. NO.				REV
A	Rest_Box_002-8				01
SCALE: 1:12	WEIGHT:	SHEET 5 OF 11			



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

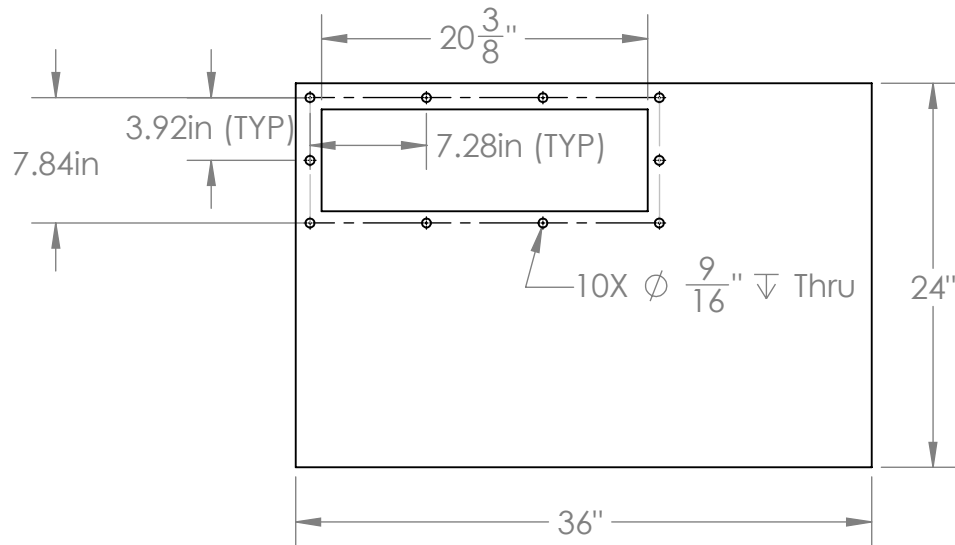
		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE: 3/16"	
		DIMENSIONS ARE IN INCHES	DRAWN	JCS	11/18/2012	TITLE: REST BOX WALL 2/4
		TOLERANCES:	CHECKED			
		FRACTIONAL ± 1/16	ENG APPR.			
		ANGULAR: MACH ±0.5 BEND ±2	MFG APPR.			
		ONE PLACE DECIMAL ±.1	Q.A.			
		TWO PLACE DECIMAL ±.06	COMMENTS:			SIZE DWG. NO. REV
		THREE PLACE DECIMAL ±0.030				A Rest_Box_002-11 01
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100				SCALE: 1:12 WEIGHT: SHEET 6 OF 11
		MATERIAL				
		5052-H32				
		FINISH				
NEXT ASSY	USED ON					
APPLICATION		DO NOT SCALE DRAWING				



PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

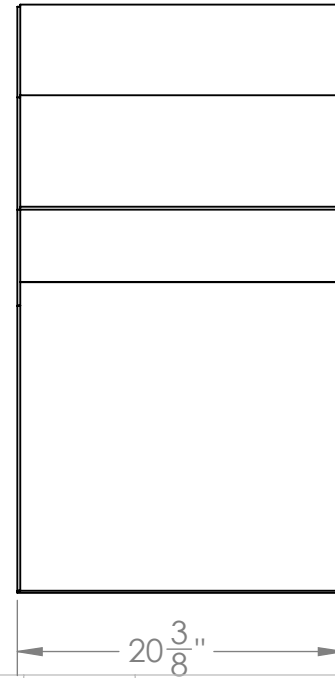
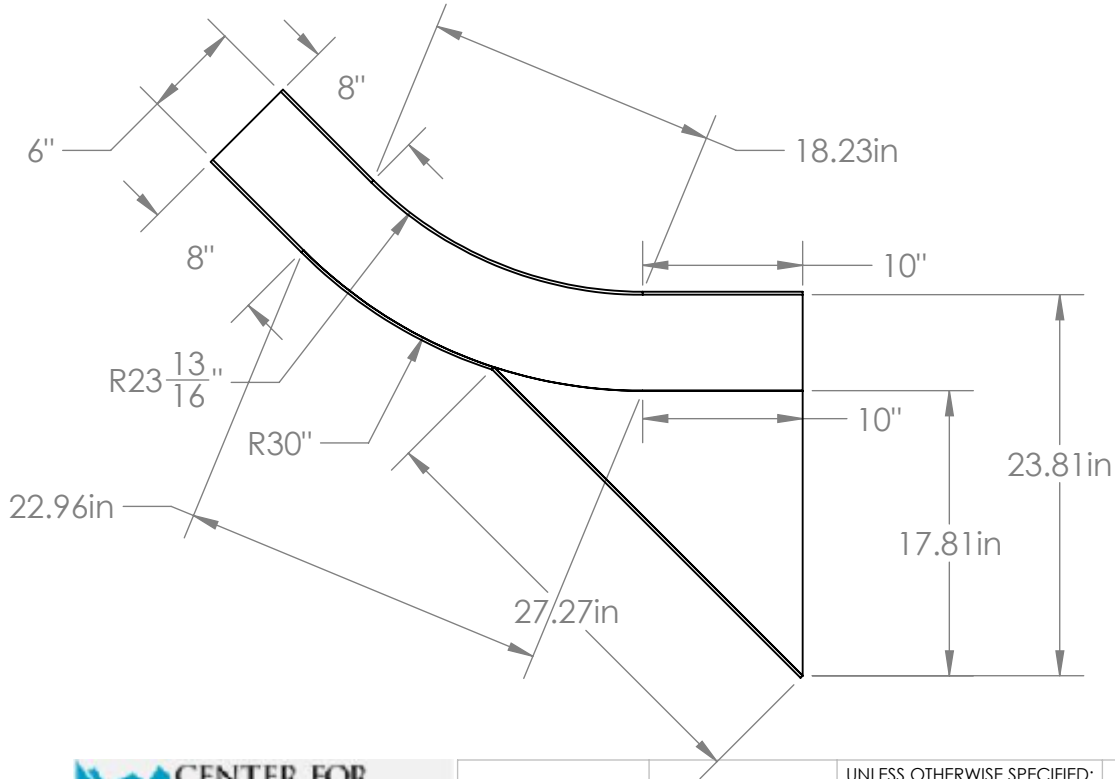
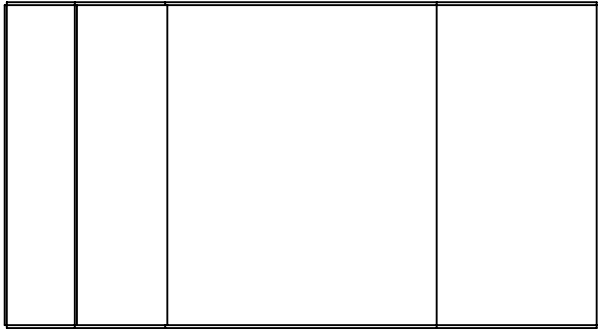
		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE: 3/16"	
		DIMENSIONS ARE IN INCHES	DRAWN	JCS	11/18/2012	TITLE: REST BOX WALL 3/4
		TOLERANCES:	CHECKED			
		FRACTIONAL ± 1/16	ENG APPR.			
		ANGULAR: MACH ±0.5 BEND ±2	MFG APPR.			
		ONE PLACE DECIMAL ±.1	Q.A.			
		TWO PLACE DECIMAL ±.06	COMMENTS:			SIZE DWG. NO. REV
		THREE PLACE DECIMAL ±0.030				A Rest_Box_002-3 01
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100				SCALE: 1:12 WEIGHT: SHEET 7 OF 11
		MATERIAL				
		5052-H32				
		FINISH				
NEXT ASSY	USED ON					
APPLICATION		DO NOT SCALE DRAWING				



PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:		
		DIMENSIONS ARE IN INCHES		DRAWN	JCS	11/18/2012	3/16"	
		TOLERANCES:		CHECKED			TITLE:	
		FRACTIONAL ± 1/16		ENG APPR.				REST BOX WALL 4/4
		ANGULAR: MACH ±0.5 BEND ±2		MFG APPR.				
		ONE PLACE DECIMAL ±.1		Q.A.			SIZE	
		TWO PLACE DECIMAL ±.06		COMMENTS:				DWG. NO.
		THREE PLACE DECIMAL ±0.030					Rest_Box_002-12	REV
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					A	01
		MATERIAL					SCALE: 1:12	WEIGHT:
		5052-H32						SHEET 8 OF 11
		FINISH						
NEXT ASSY	USED ON	APPLICATION		DO NOT SCALE DRAWING				



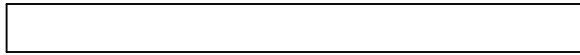
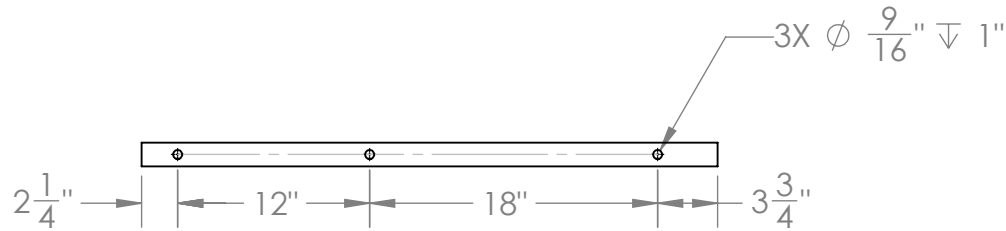
PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

NEXT ASSY	USED ON	
APPLICATION		

UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE IN INCHES
 TOLERANCES:
 FRACTIONAL ± 1/16
 ANGULAR: MACH ±0.5 BEND ±2
 ONE PLACE DECIMAL ±.1
 TWO PLACE DECIMAL ±.06
 THREE PLACE DECIMAL ±0.030
 INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100
 MATERIAL
 5052-H32
 FINISH
 DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	JCS	11/18/2012
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

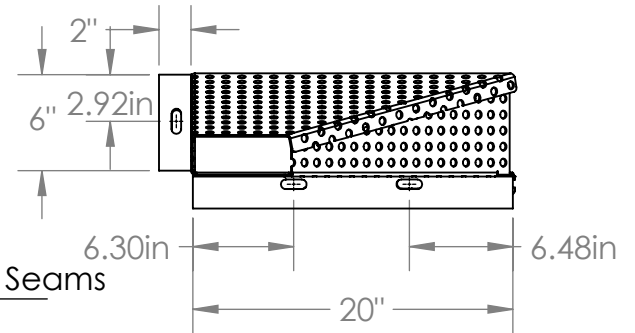
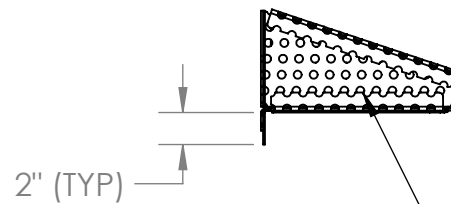
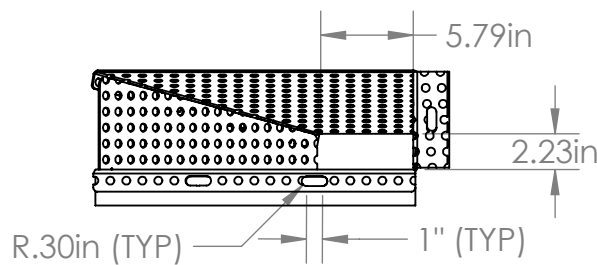
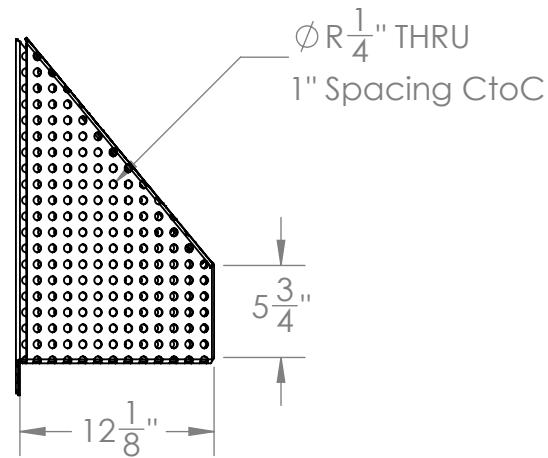
STOCK SIZE: 3/16"		
TITLE: TRANSITION REST BOX OUT		
SIZE A	DWG. NO. Transition box2	REV 01
SCALE: 1:12	WEIGHT:	SHEET 9 OF 11



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	JCS	11/18/2012
		TOLERANCES:	CHECKED		
		FRACTIONAL ± 1/16	ENG APPR.		
		ANGULAR: MACH ±0.5 BEND ±2	MFG APPR.		
		ONE PLACE DECIMAL ±.1	Q.A.		
		TWO PLACE DECIMAL ±.06	COMMENTS:		
		THREE PLACE DECIMAL ±0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100			
		MATERIAL			
		5052-H32			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

STOCK SIZE:		
C 3x5		
TITLE:		
REST BOX SUPPORT		
SIZE	DWG. NO.	REV
	Box Beam	01
SCALE: 1:12	WEIGHT:	SHEET 10 OF 11

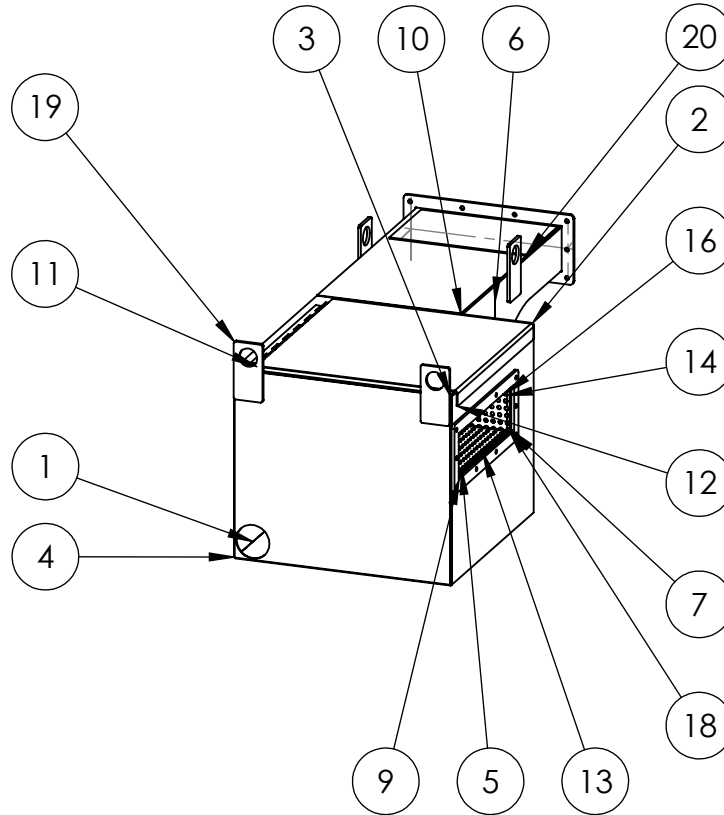



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

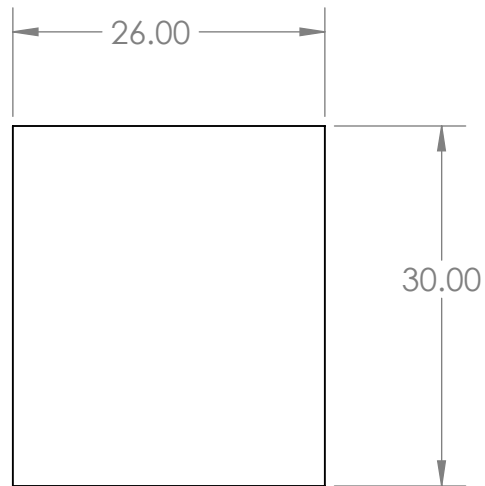
		UNLESS OTHERWISE SPECIFIED:	NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	JCS 11/18/2012
		TOLERANCES:	CHECKED	
		FRACTIONAL ± 1/16	ENG APPR.	
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.	
		ONE PLACE DECIMAL ± .1	Q.A.	
		TWO PLACE DECIMAL ± .06	COMMENTS:	
		THREE PLACE DECIMAL ± 0.030		
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100		
		MATERIAL		
NEXT ASSY	USED ON	FINISH		
APPLICATION		DO NOT SCALE DRAWING		

STOCK SIZE:		
TITLE: REST BOX FYKE		
SIZE A	DWG. NO. Fyke-003	REV 01
SCALE: 1:12	WEIGHT:	SHEET 11 OF 11

ITEM NO.	PART NUMBER	QTY.
1	REST_BOX_004-2	1
2	REST_BOX_004-4	1
3	REST_BOX_004-3	1
4	REST_BOX_004-11	1
5	REST_BOX_004-8	1
6	Rest_Box_004-17	2
7	REST_BOX_004-15	1
8	Rest_Box_004-13	1
9	Flange_005	2
10	Rest_Box_004-16	1
11	CA12520096_24in_cut	1
12	Rest_Box_004-5	1
13	FYKE_003-1	1
14	FYKE_003-3	1
15	FYKE_003-4	1
16	FYKE_003-2	1
17	FYKE_003-5	1
18	FYKE_003-6	1
19	Lift_Plate	4
20	Channel_lid-10in	1

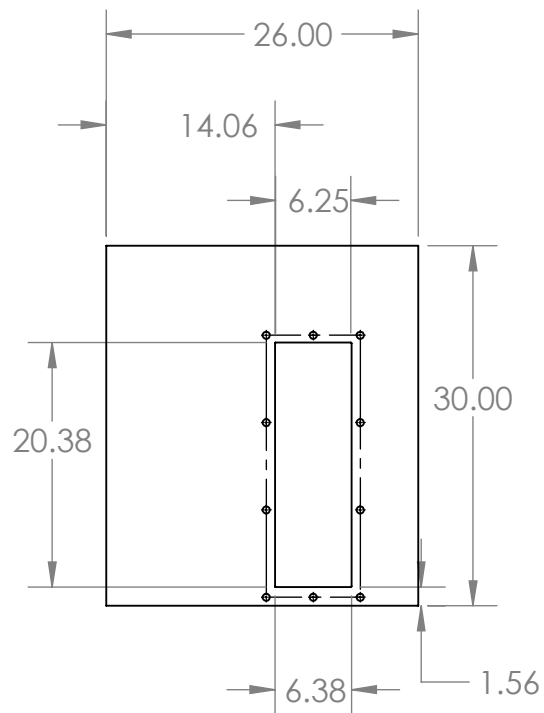


 <p>CENTER FOR ECOHYDRAULICS RESEARCH</p>			UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:
			DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012	TITLE: REST BOX #4
			TOLERANCES:	CHECKED			
			FRACTIONAL ± 1/16 ANGULAR: MACH ±0.5 BEND ±2 ONE PLACE DECIMAL ±.1 TWO PLACE DECIMAL ±.06 THREE PLACE DECIMAL ±0.030	ENG APPR.			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100	Q.A.				SIZE DWG. NO. REV
		MATERIAL	COMMENTS:				A Sheetmetal_Rest_Box_004 01
	NEXT ASSY	USED ON	FINISH				SCALE: 1:25 WEIGHT: SHEET 1 OF 11
	APPLICATION		DO NOT SCALE DRAWING				



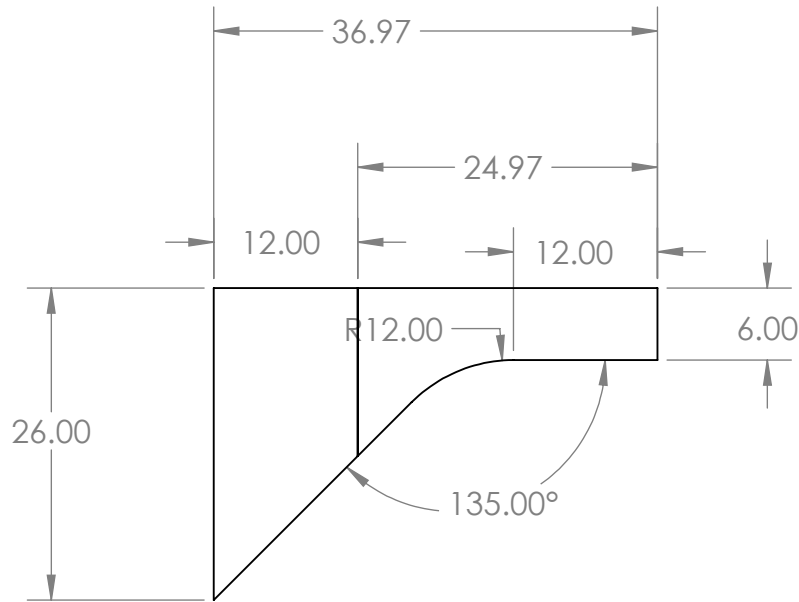
PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	0.1875		
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012	TITLE:		
		TOLERANCES:		CHECKED			REST BOX WALL 2/4		
		FRACTIONAL $\pm 1/16$		ENG APPR.					
		ANGULAR: MACH ± 0.5 BEND ± 2		MFG APPR.					
		ONE PLACE DECIMAL $\pm .1$		Q.A.					
		TWO PLACE DECIMAL $\pm .06$		COMMENTS:					
		THREE PLACE DECIMAL ± 0.030					SIZE	DWG. NO.	REV
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					A	REST_BOX_004-11	01
		MATERIAL					SCALE: 1:16	WEIGHT:	SHEET 2 OF 11
		5052-H32							
		FINISH							
	NEXT ASSY	USED ON							
	APPLICATION								
			DO NOT SCALE DRAWING						



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

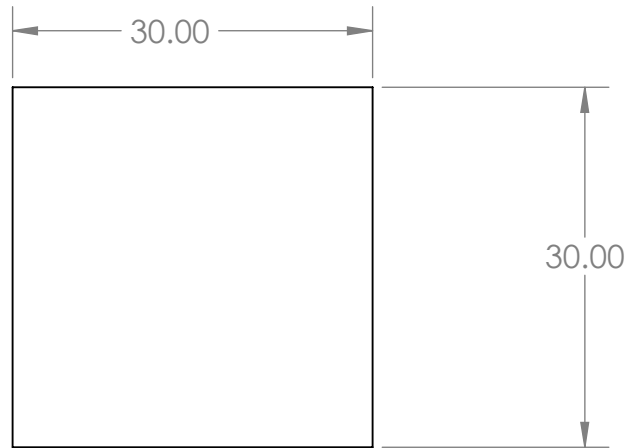
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012	0.1875
		TOLERANCES:		CHECKED			TITLE: REST BOX WALL 2/4
		FRACTIONAL ± 1/16		ENG APPR.			
		ANGULAR: MACH ±0.5 BEND ±2		MFG APPR.			
		ONE PLACE DECIMAL ±.1		Q.A.			SIZE DWG. NO. REV A REST_BOX_004-15 01
		TWO PLACE DECIMAL ±.06		COMMENTS:			
		THREE PLACE DECIMAL ±0.030					SCALE: 1:16 WEIGHT: SHEET 3 OF 11
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					
		MATERIAL					
		5052-H32					
NEXT ASSY		USED ON					
APPLICATION		DO NOT SCALE DRAWING					



PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

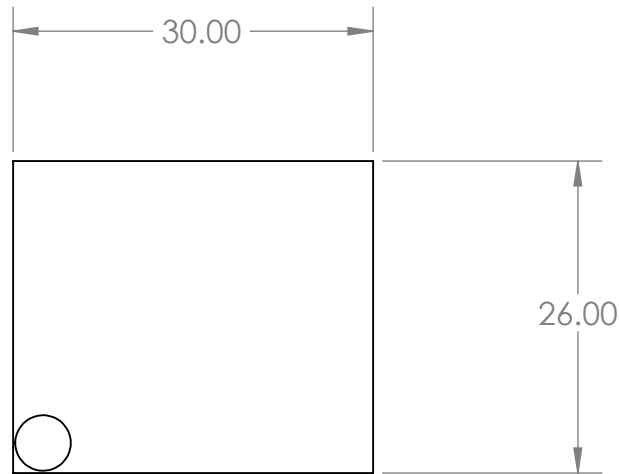
		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:			
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012	0.1875		
		TOLERANCES:	CHECKED			TITLE:		
		FRACTIONAL ± 1/16	ENG APPR.			Transition from Rest Box #4		
		ANGULAR: MACH ±0.5 BEND ±2	MFG APPR.					
		ONE PLACE DECIMAL ±.1	Q.A.					
		TWO PLACE DECIMAL ±.06	COMMENTS:					
		THREE PLACE DECIMAL ±0.030				SIZE	DWG. NO.	REV
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100				A	Rest_Box_004-17	01
		MATERIAL				SCALE: 1:16	WEIGHT:	SHEET 4 OF 11
		5052-H32						
		FINISH						
	NEXT ASSY	USED ON						
	APPLICATION							
		DO NOT SCALE DRAWING						



PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

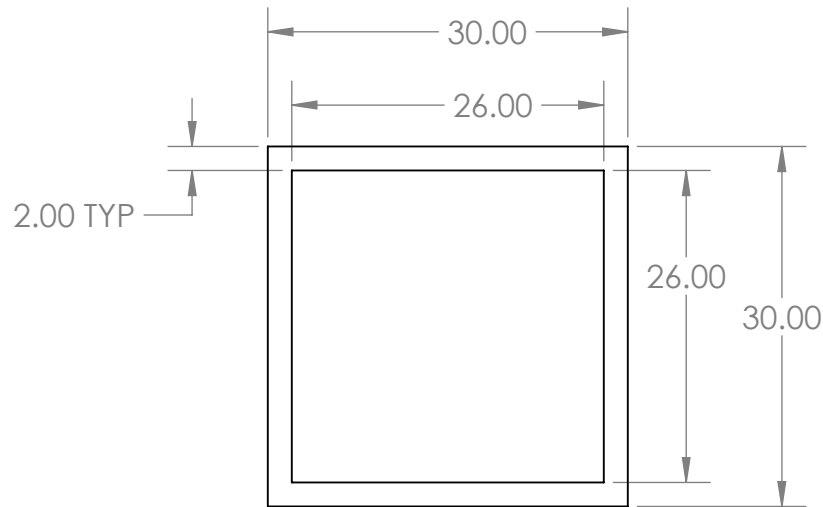
		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:	0.1875			
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012	TITLE:			
		TOLERANCES:	CHECKED			REST BOX BASE			
		FRACTIONAL $\pm 1/16$	ENG APPR.			SIZE DWG. NO. REV			
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.			A	REST_BOX_004-2	01	
		ONE PLACE DECIMAL $\pm .1$	Q.A.			SCALE: 1:16		WEIGHT:	SHEET 5 OF 11
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:						
		THREE PLACE DECIMAL ± 0.030							
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100							
		MATERIAL							
		5052-H32							
		FINISH							
NEXT ASSY	USED ON								
APPLICATION		DO NOT SCALE DRAWING							



PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

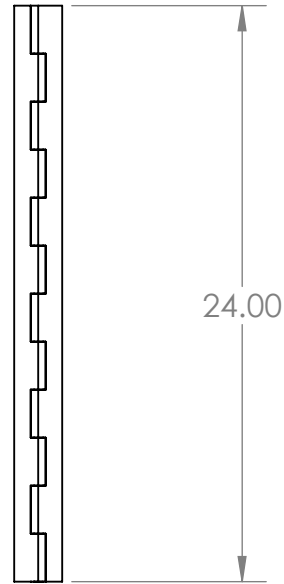
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:			
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012	0.1875		
		TOLERANCES:		CHECKED			TITLE: REST BOX WALL 3/4		
		FRACTIONAL $\pm 1/16$		ENG APPR.					
		ANGULAR: MACH ± 0.5 BEND ± 2		MFG APPR.					
		ONE PLACE DECIMAL $\pm .1$		Q.A.					
		TWO PLACE DECIMAL $\pm .06$		COMMENTS:					
		THREE PLACE DECIMAL ± 0.030							
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					SIZE	DWG. NO.	REV
		MATERIAL					A	REST_BOX_004-3	01
NEXT ASSY	USED ON	FINISH					SCALE: 1:16	WEIGHT:	SHEET 6 OF 11
APPLICATION		DO NOT SCALE DRAWING							



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

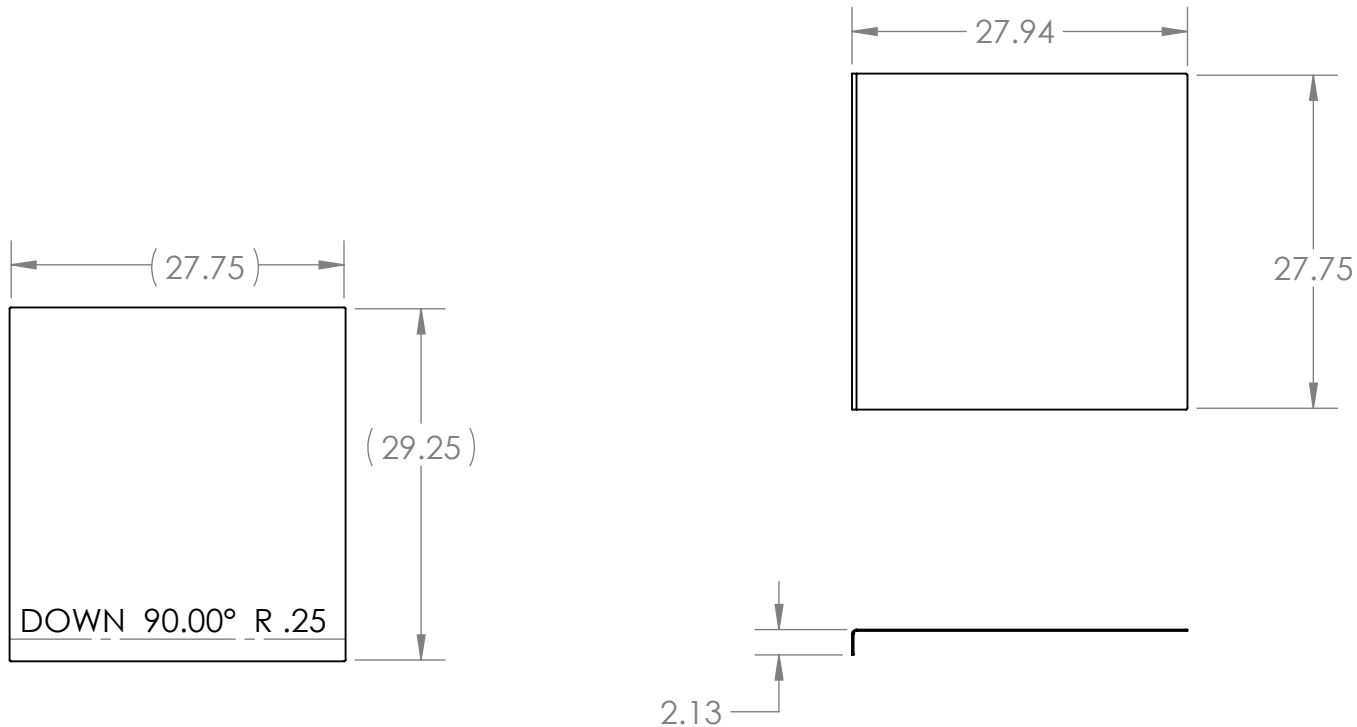
		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012	0.1875
		TOLERANCES:	CHECKED			TITLE: REST BOX LID-1
		FRACTIONAL $\pm 1/16$	ENG APPR.			
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.			
		ONE PLACE DECIMAL $\pm .1$	Q.A.			
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:			
		THREE PLACE DECIMAL ± 0.030				
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100				SIZE DWG. NO. REV
		MATERIAL				A REST_BOX_004-4 01
		5052-H32				SCALE: 1:16 WEIGHT: SHEET 7 OF 11
		FINISH				
NEXT ASSY	USED ON					
APPLICATION		DO NOT SCALE DRAWING				

NOTE:
 PURCHASED PART
 ALUMINUM PIANO HINGE
 CUT TO LENGTH IF NECESSARY



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

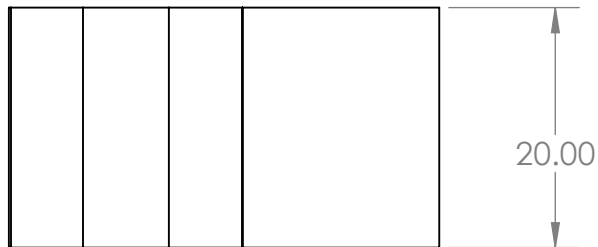
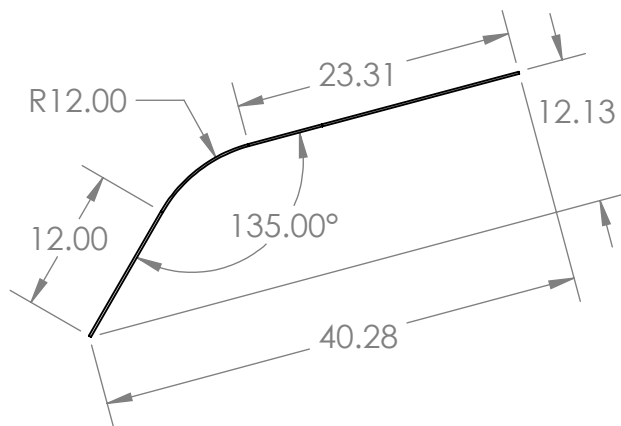
		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012	TITLE:
		TOLERANCES:	CHECKED			
		FRACTIONAL $\pm 1/16$	ENG APPR.			
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.			
		ONE PLACE DECIMAL $\pm .1$	Q.A.			
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:			SIZE
		THREE PLACE DECIMAL ± 0.030				DWG. NO.
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100				REV
		MATERIAL				01
NEXT ASSY	USED ON	FINISH				SCALE: 1:25
APPLICATION		DO NOT SCALE DRAWING				WEIGHT:
						SHEET 8 OF 11



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

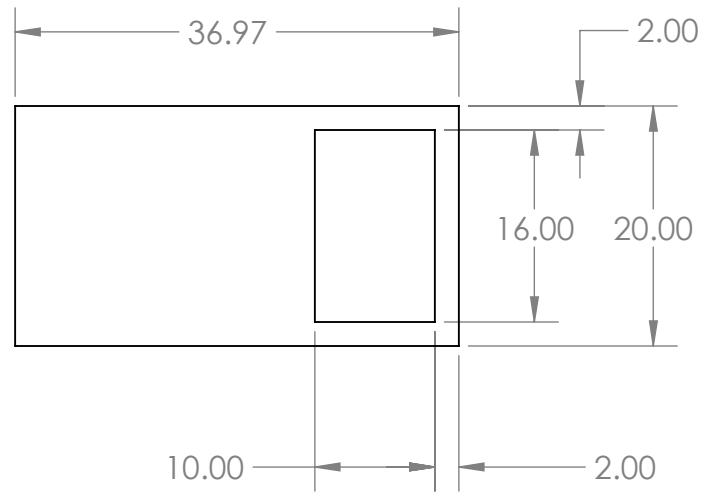
		UNLESS OTHERWISE SPECIFIED:	NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ
		TOLERANCES:	CHECKED	11/28/2012
		FRACTIONAL ± 1/16	ENG APPR.	
		ANGULAR: MACH ±0.5 BEND ±2	MFG APPR.	
		ONE PLACE DECIMAL ±.1	Q.A.	
		TWO PLACE DECIMAL ±.06	COMMENTS:	
		THREE PLACE DECIMAL ±0.030		
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100		
		MATERIAL		
		AL 5052-H32		
NEXT ASSY	USED ON	FINISH		
APPLICATION		DO NOT SCALE DRAWING		

STOCK SIZE:		0.125
TITLE:		
REST BOX LID		
SIZE	DWG. NO.	REV
A	Rest_Box_004-5	01
SCALE: 1:16	WEIGHT:	SHEET 9 OF 11



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:	0.1875		
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012	TITLE:		
		TOLERANCES:	CHECKED			EXIT RAMP		
		FRACTIONAL ± 1/16	ENG APPR.			SIZE DWG. NO. REV		
		ANGULAR: MACH ±0.5 BEND ±2	MFG APPR.			A	Rest_Box_004-13	01
		ONE PLACE DECIMAL ±.1	Q.A.			SCALE: 1:16		
		TWO PLACE DECIMAL ±.06	COMMENTS:			WEIGHT:	SHEET 10 OF 11	
		THREE PLACE DECIMAL ±0.030						
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100						
		MATERIAL						
		5052-H32						
		FINISH						
NEXT ASSY	USED ON	APPLICATION						
		DO NOT SCALE DRAWING						

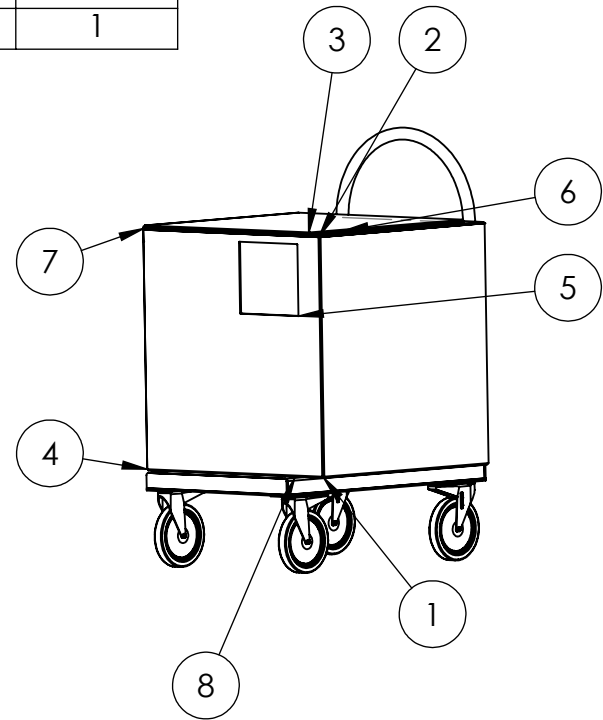


PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

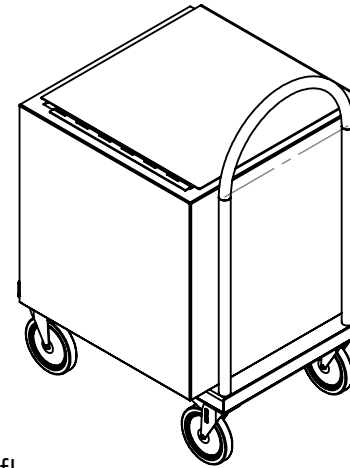
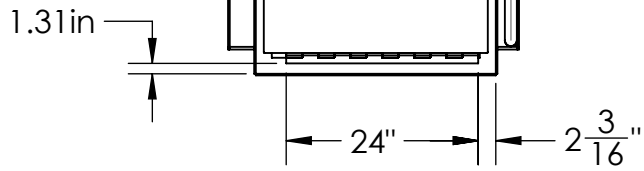
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:			
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012	0.1875		
		TOLERANCES:		CHECKED			TITLE: EXIT RAMP LID		
		FRACTIONAL ± 1/16		ENG APPR.					
		ANGULAR: MACH ±0.5 BEND ±2		MFG APPR.					
		ONE PLACE DECIMAL ±.1		Q.A.			SIZE DWG. NO. REV A Rest_Box_004-16 01		
		TWO PLACE DECIMAL ±.06		COMMENTS:					
		THREE PLACE DECIMAL ±0.030					SCALE: 1:16	WEIGHT:	SHEET 11 OF 11
NEXT ASSY		USED ON		MATERIAL					
				5052-H32					
				FINISH					
				INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					
				APPLICATION			DO NOT SCALE DRAWING		

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	UPWELLING_001-2	TRAP BOX BASE	1
2	UPWELLING_001-4	TRAP BOX LID-1	1
3	Trap_001-3	TRAP BOX WALL 3/4	1
4	UPWELLING_001-15	TRAP BOX WALL 1&2/4	2
5	trap_001-4	TRAP BOX WALL 4/4	1
6	CA12520096_24in_cut	2' hinge cut from Aluminum Piano Hinge Monroe 8'	1
7	UPWELLING_001-5	TRAP BOX LID 2	1
8	cart	Cart Supplied by Uofl	1

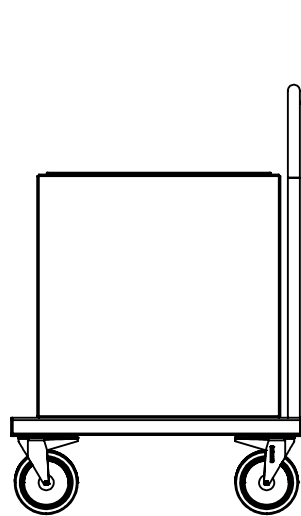


PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

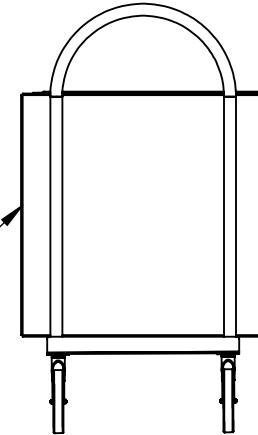
		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:
		DIMENSIONS ARE IN INCHES	DRAWN	JCS	11/18/2012
		TOLERANCES:	CHECKED		TITLE:
		FRACTIONAL $\pm 1/16$	ENG APPR.		Trap Box
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.		
		ONE PLACE DECIMAL $\pm .1$	Q.A.		
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:		
		THREE PLACE DECIMAL ± 0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100			SIZE DWG. NO. REV
NEXT ASSY	USED ON	MATERIAL			A Trap_Box 01
APPLICATION		FINISH			SCALE: 1:24 WEIGHT: SHEET 1 OF 8
		DO NOT SCALE DRAWING			



Cart to Be Supplied by UofI

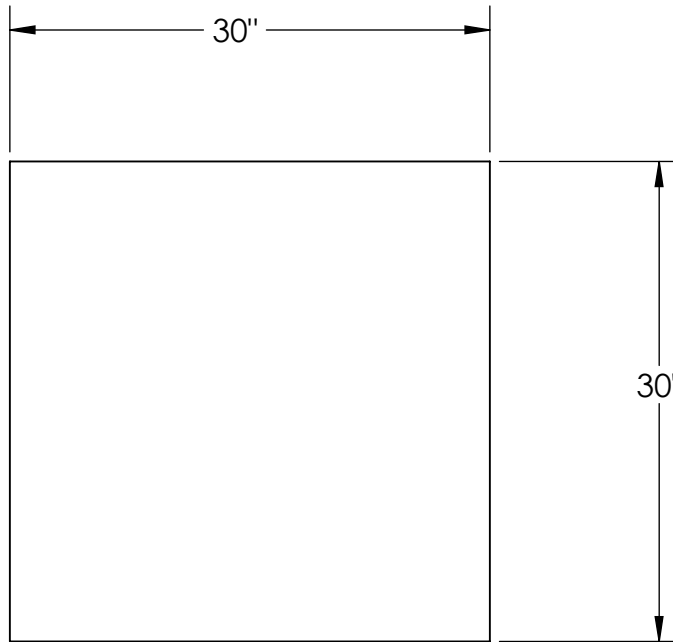


All Parts Except Lid



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES		DRAWN	JCS	11/18/2012	TITLE: Trap Box
		TOLERANCES:		CHECKED			
		FRACTIONAL ± 1/16		ENG APPR.			
		ANGULAR: MACH ±0.5 BEND ±2		MFG APPR.			
		ONE PLACE DECIMAL ±.1		Q.A.			
		TWO PLACE DECIMAL ±.06		COMMENTS:			SIZE DWG. NO. REV
		THREE PLACE DECIMAL ±0.030					A Trap_Box 01
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					SCALE: 1:24 WEIGHT: SHEET 2 OF 8
		MATERIAL					
NEXT ASSY		USED ON					
APPLICATION		DO NOT SCALE DRAWING					

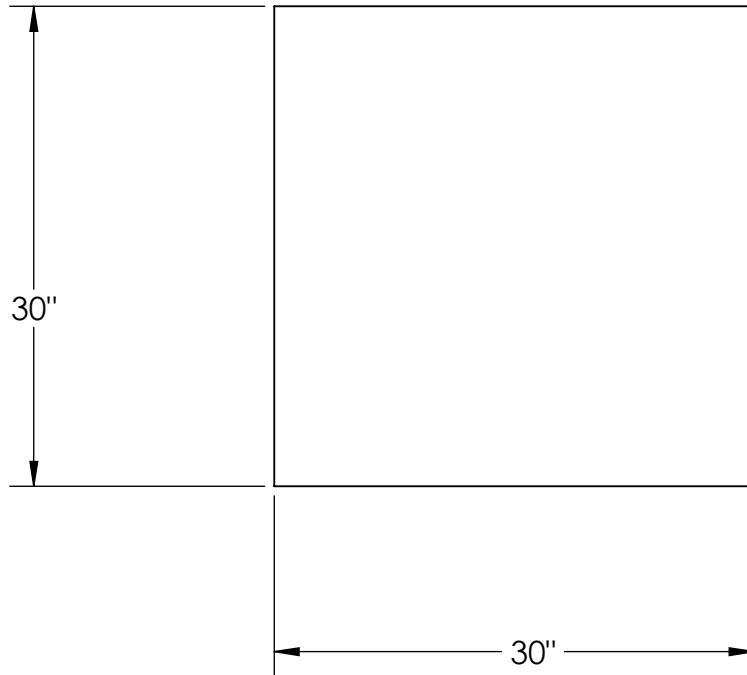


PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	JCS	11/18/2012
		TOLERANCES:	CHECKED		
		FRACTIONAL $\pm 1/16$	ENG APPR.		
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.		
		ONE PLACE DECIMAL $\pm .1$	Q.A.		
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:		
		THREE PLACE DECIMAL ± 0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100			
		MATERIAL			
		5052-H32			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

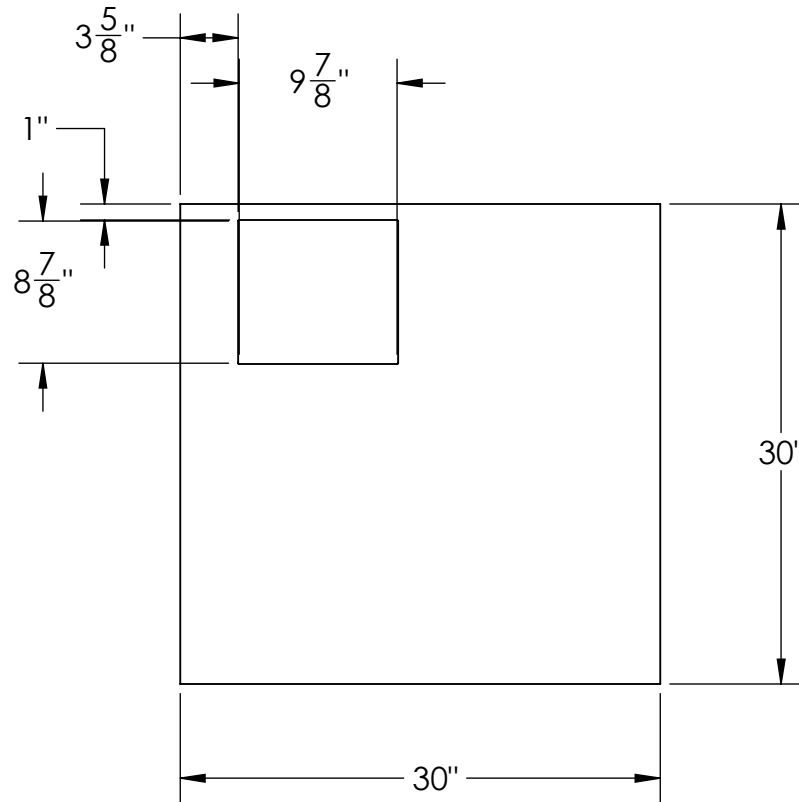
STOCK SIZE: 3/16"		
TITLE: TRAP BOX WALL 1&2/4		
SIZE	DWG. NO.	REV
A	UPWELLING_001-15	01
SCALE: 1:12	WEIGHT:	SHEET 3 OF 8



PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

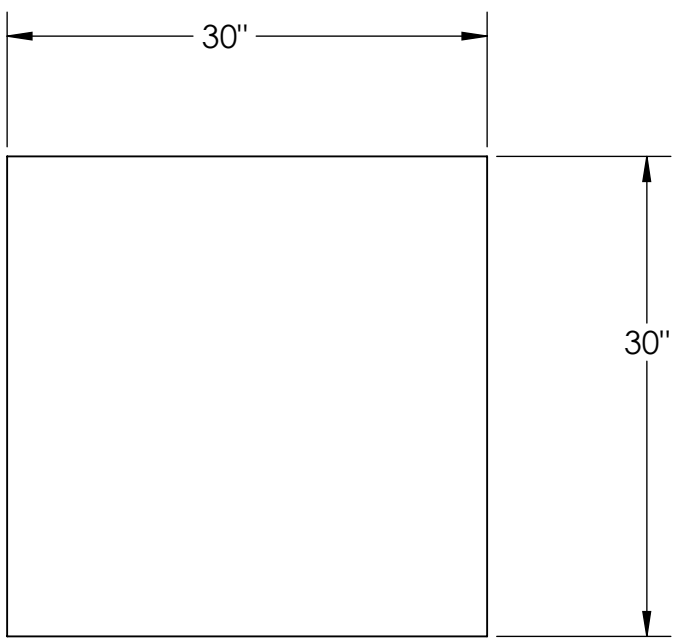
		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE: 3/16"	
		DIMENSIONS ARE IN INCHES	DRAWN	JCS	11/18/2012	TITLE: TRAP BOX WALL 3/4
		TOLERANCES:	CHECKED			
		FRACTIONAL ± 1/16	ENG APPR.			
		ANGULAR: MACH ±0.5 BEND ±2	MFG APPR.			
		ONE PLACE DECIMAL ±.1	Q.A.			
		TWO PLACE DECIMAL ±.06	COMMENTS:			SIZE DWG. NO. REV
		THREE PLACE DECIMAL ±0.030				A Trap_001-3 01
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100				SCALE: 1:12 WEIGHT: SHEET 4 OF 8
		MATERIAL				
		5052-H32				
		FINISH				
NEXT ASSY	USED ON					
APPLICATION		DO NOT SCALE DRAWING				



PROPRIETARY AND CONFIDENTIAL

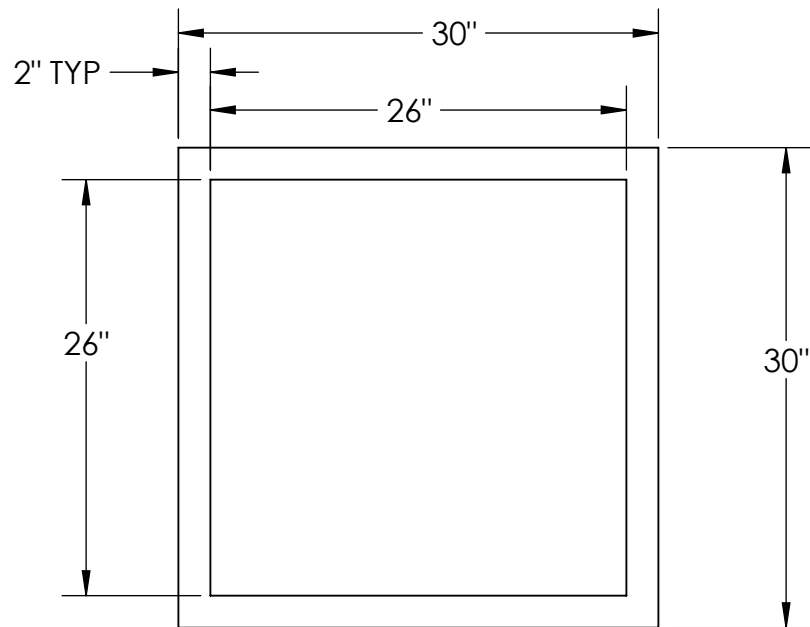
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES		DRAWN	JCS	11/18/2012	0.1875
		TOLERANCES:		CHECKED			TITLE: TRAP BOX WALL 4/4
		FRACTIONAL ± 1/16		ENG APPR.			
		ANGULAR: MACH ±0.5 BEND ±2		MFG APPR.			
		ONE PLACE DECIMAL ±.1		Q.A.			
		TWO PLACE DECIMAL ±.06		COMMENTS:			
		THREE PLACE DECIMAL ±0.030					
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					SIZE DWG. NO. REV
		MATERIAL					A trap_001-4 01
		5052-H32					SCALE: 1:12 WEIGHT: SHEET 5 OF 8
		FINISH					
NEXT ASSY	USED ON						
APPLICATION		DO NOT SCALE DRAWING					



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

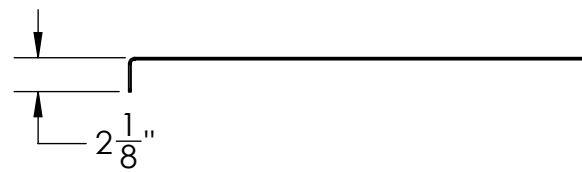
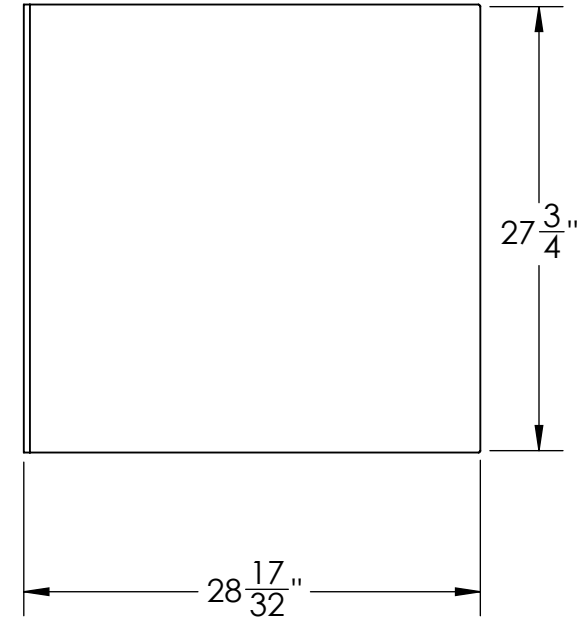
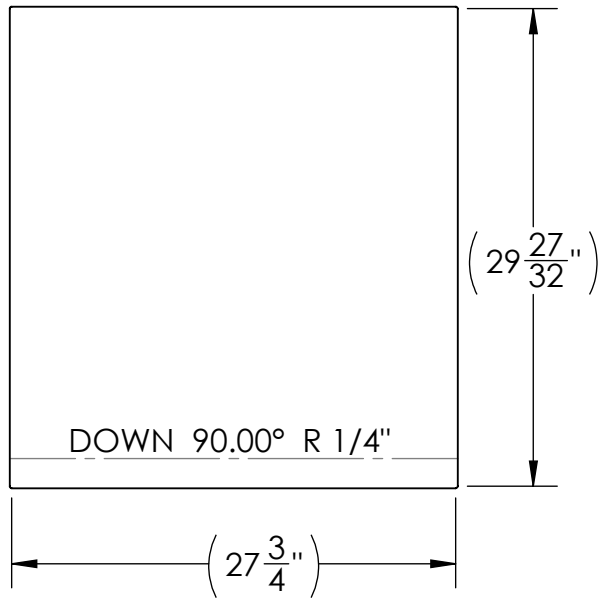
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE: 3/16"	
		DIMENSIONS ARE IN INCHES		DRAWN	JCS	11/18/2012	
		TOLERANCES:		CHECKED		TITLE: TRAP BOX BASE	
		FRACTIONAL ± 1/16		ENG APPR.			
		ANGULAR: MACH ±0.5 BEND ±2		MFG APPR.			
		ONE PLACE DECIMAL ±.1		Q.A.			
		TWO PLACE DECIMAL ±.06		COMMENTS:			
		THREE PLACE DECIMAL ±0.030					
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					
		MATERIAL				SIZE DWG. NO. REV	
		5052-H32				A UPWELLING_001-2 01	
NEXT ASSY		USED ON				SCALE: 1:12 WEIGHT: SHEET 6 OF 8	
APPLICATION		DO NOT SCALE DRAWING					



PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE: 3/16"		
		DIMENSIONS ARE IN INCHES		DRAWN	JCS	11/18/2012		
		TOLERANCES:		CHECKED		TITLE: TRAP BOX LID-1		
		FRACTIONAL ± 1/16		ENG APPR.				
		ANGULAR: MACH ±0.5 BEND ±2		MFG APPR.				
		ONE PLACE DECIMAL ±.1		Q.A.				
		TWO PLACE DECIMAL ±.06		COMMENTS:				
		THREE PLACE DECIMAL ±0.030						
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100						
		MATERIAL				SIZE	DWG. NO.	REV
		5052-H32				A	UPWELLING_001-4	01
NEXT ASSY	USED ON	FINISH				SCALE: 1:12	WEIGHT:	SHEET 7 OF 8
APPLICATION		DO NOT SCALE DRAWING						



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/18/2012
		TOLERANCES:	CHECKED		
		FRACTIONAL ± 1/16	ENG APPR.		
		ANGULAR: MACH ±0.5 BEND ±2	MFG APPR.		
		ONE PLACE DECIMAL ±.1			
		TWO PLACE DECIMAL ±.06			
		THREE PLACE DECIMAL ±0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100	Q.A.		
		MATERIAL	COMMENTS:		
		AL 5052-H32			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

STOCK SIZE:			1/8"
TITLE:			
TRAP BOX LID 2			
SIZE	DWG. NO.	REV	
A	UPWELLING_001-5	01	
SCALE: 1:12	WEIGHT:	SHEET 8 OF 8	

STRUCTURAL NOTES

DESIGN CRITERIA:

1. Design Codes:
 - A. 2009 International Building Code
 - B. ASCE Standard ASCE/SEI 7-05
2. Design Loads:
 - A. D.L. = Component Weight + Water
3. Wind load = 90 MPH, exposure C, Iw = 1.0
4. Seismic: IBC Table 15.4.2
Elevated Tank on Symetrically Braced Legs: 15.7.10
R = 3.0 SDS = 0.542
S1 = 0.228Cs = .03

MATERIALS:

ALUMINUM: Per Specification for Aluminum Structures

1. Aluminum Sheet Materials: 5052-H32 (welded)
 - A. Ft_u = 25 KSI
 - B. E = 10,200 KSI
 - C. Fty = 9.5 KSI
 - D. Fcy = 9.5 KSI
2. Aluminum Shapes Materials: 6061-T6 (welded)
Channels, Angles and Square Tubes
 - A. Ft_u = 24 KSI
 - B. E = 10,100 KSI
 - C. Fty = 15 KSI
 - D. Fcy = 15 KSI
3. Welding shall be accordance with AWS A5.10 /M5.10 specifications:
 - A. Welding Filler Material: 4043

STAINLESS STEEL: Per AISI Specification

1. All Stainless Steel Componets: AISI 304
2. Welding shall be accordance with AWS A5.22 / M5.22 specifications:
3. Component Bolts: SS - 304; ASTM A193, grade 8, meeting provisions of ANSI/ASME B18.2.1 dimensional requirements.
4. Bolts to Concrete: Hilti "Kwik Bolt -TZ" -SS 304 (or equivalent)
5. Provide neoprene washers to isolate Stainless Steel bolt heads and nuts from bearing at aluminum surfaces.

BAR GRATING: Aluminum or Stainless Steel

1. 1" x 1/8" GW

CORROSION PROTECTION

1. Provide Bitumen coating for all Aluminum surfaces in contact with concrete or stainless steel surfaces. Bitumen shall be shop applied. Protect all Bitumen coatings during shipping.



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

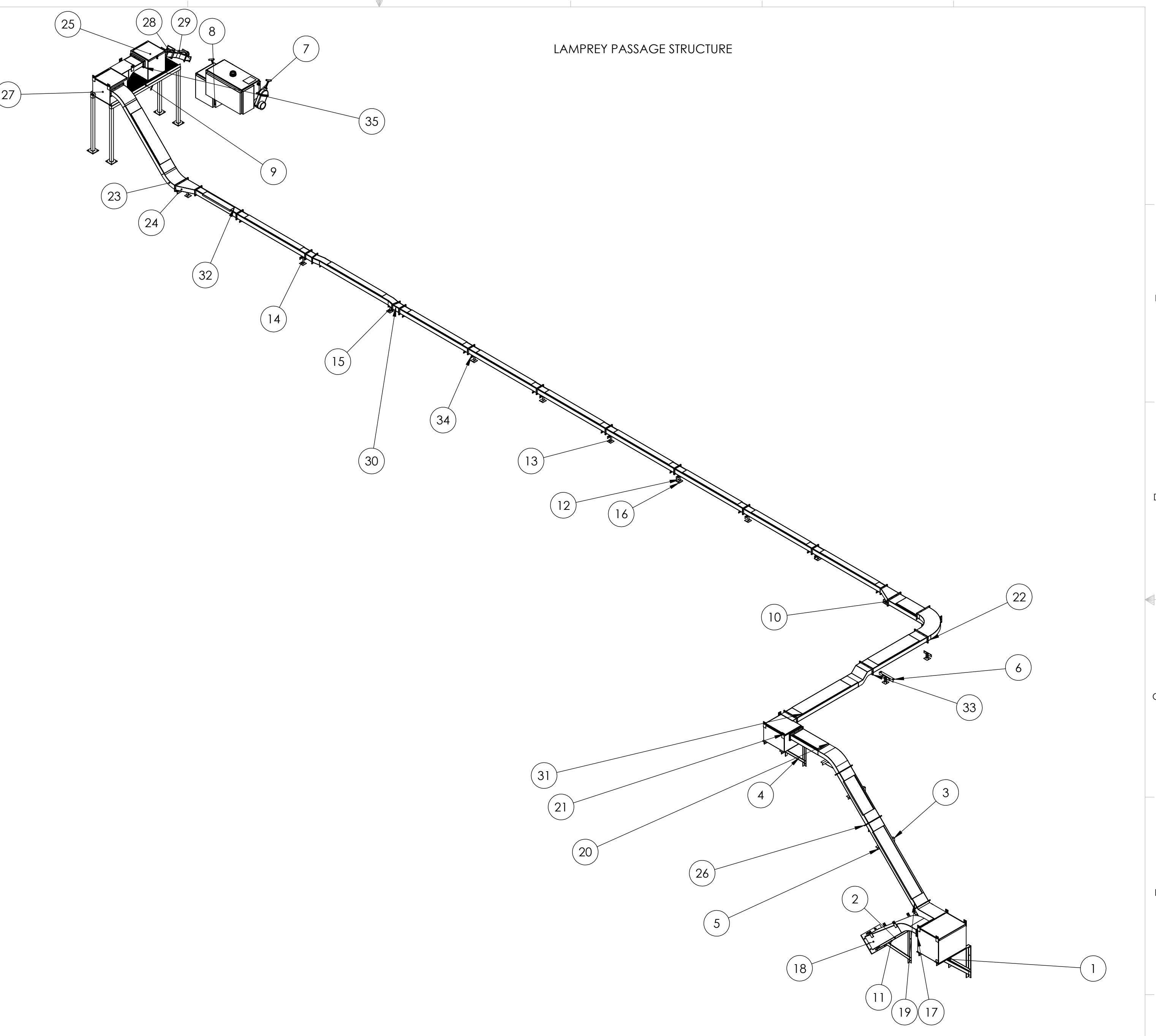
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/16 ANGULAR: MACH ±0.5 BEND ±2 ONE PLACE DECIMAL ±.1 TWO PLACE DECIMAL ±.06 THREE PLACE DECIMAL ±0.030		DRAWN	HRZ		
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100		CHECKED		TITLE:	
		MATERIAL		ENG APPR.			
NEXT ASSY		USED ON		MFG APPR.			
		FINISH		Q.A.			
APPLICATION		DO NOT SCALE DRAWING		COMMENTS:		SIZE	DWG. NO.
						A	
							REV
							01
						SCALE: 1:1	WEIGHT:
							SHEET 1 OF 35



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012
		TOLERANCES:		CHECKED		
		FRACTIONAL $\pm 1/16$		ENG APPR.		
		ANGULAR: MACH ± 0.5 BEND ± 2		MFG APPR.		
		ONE PLACE DECIMAL $\pm .1$		Q.A.		
		TWO PLACE DECIMAL $\pm .06$		COMMENTS:		
		THREE PLACE DECIMAL ± 0.030				
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100				
		MATERIAL				
		FINISH				
NEXT ASSY	USED ON					SIZE DWG. NO. REV
APPLICATION		DO NOT SCALE DRAWING				Board WaShoresLadderMonoliths QIPS
						SCALE: 1:300 WEIGHT: SHEET 2 OF 35

ITEM NO.	PART NUMBER	No Monolith/QTY.
1	Str_brac_03-1	1
2	Str_brac_04	1
3	Str_brac_05	4
4	Str_brac_02	1
5	Str_spacer_05	4
6	Str_spacer_04	3
7	60x30x30_storage tank	1
8	30x30x30_storage tank	1
9	Lamprey Exit Box Platform	1
10	Str_stand	4
11	Str_spacer_06	1
12	Str_stand-02	2
13	Str_stand-03	3
14	Str_stand-04	2
15	Str_stand-03-2	1
16	Str_stand-shim	1
17	Sheetmetal_Rest_Box_001	1
18	Transition	1
19	Channel_8x20_10ft	1
20	Transition2	1
21	Sheetmetal_Rest_Box_002	1
22	Tran_90deg_Elbow	1
23	Transition4-2-02	1
24	Expansion_01	2
25	Upwelling_Box	1
26	Channel_8x20_6ft	2
27	Sheetmetal_Rest_Box_004	1
28	Tran_Exit	1
29	Tran_Exit_Ygate	1
30	Channel_6x9_Jog	1
31	Channel_6x20_9ftStep	1
32	Channel_6x9_6ft	1
33	Channel_8x20_8ft	1
34	Channel_6x9_10ft	8
35	PIT Antenna	1

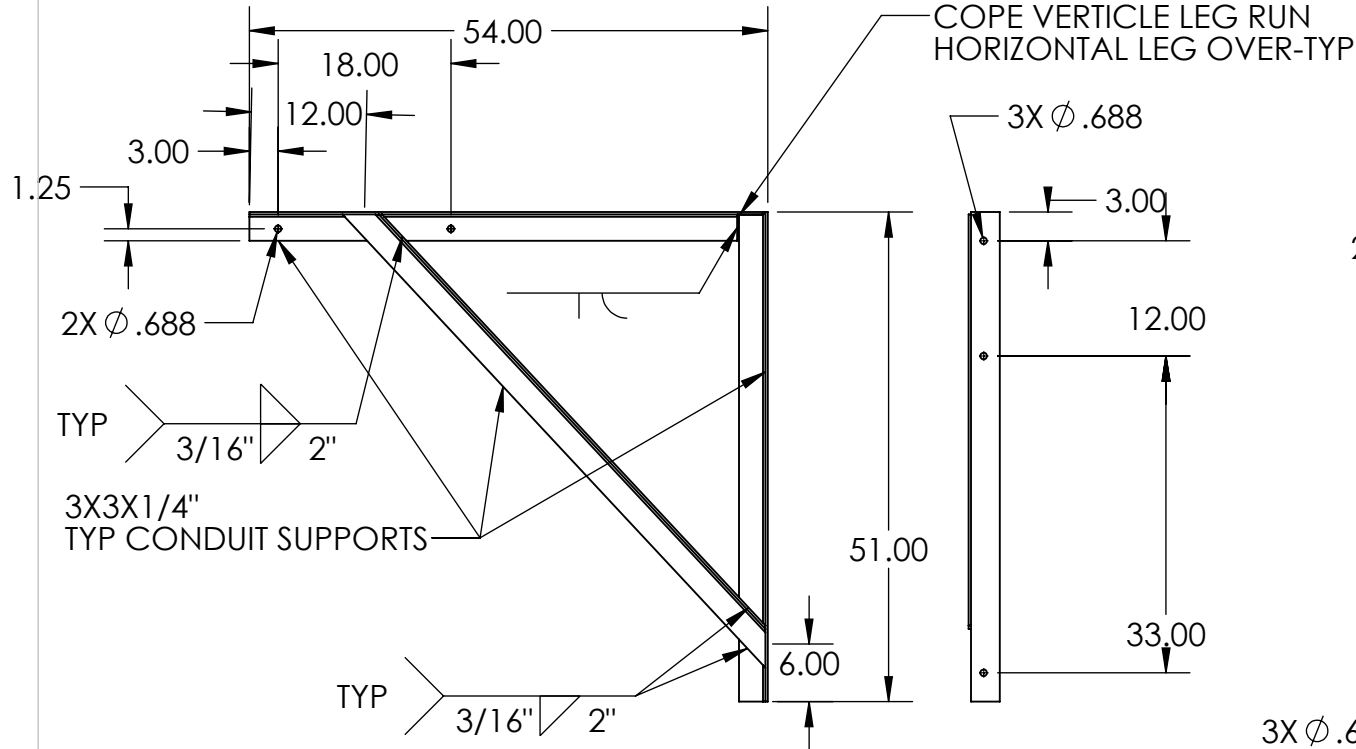


PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/16 ANGULAR: MACH ± 0.5 BEND ± 2 ONE PLACE DECIMAL ± .1 TWO PLACE DECIMAL ± .06 THREE PLACE DECIMAL ± 0.030		NAME	DATE	TITLE:
NEXT ASSY	USED ON	DRAWN	11/28/2012	
APPLICATION	DO NOT SCALE DRAWING	CHECKED		
		ENG APPR.		
		Q.A.		SIZE DWG. NO. REV 800nnWaShoresLadderMonoliths_LPS
		COMMENTS:		
				SCALE: 1:90 WEIGHT: SHEET 3 OF 35

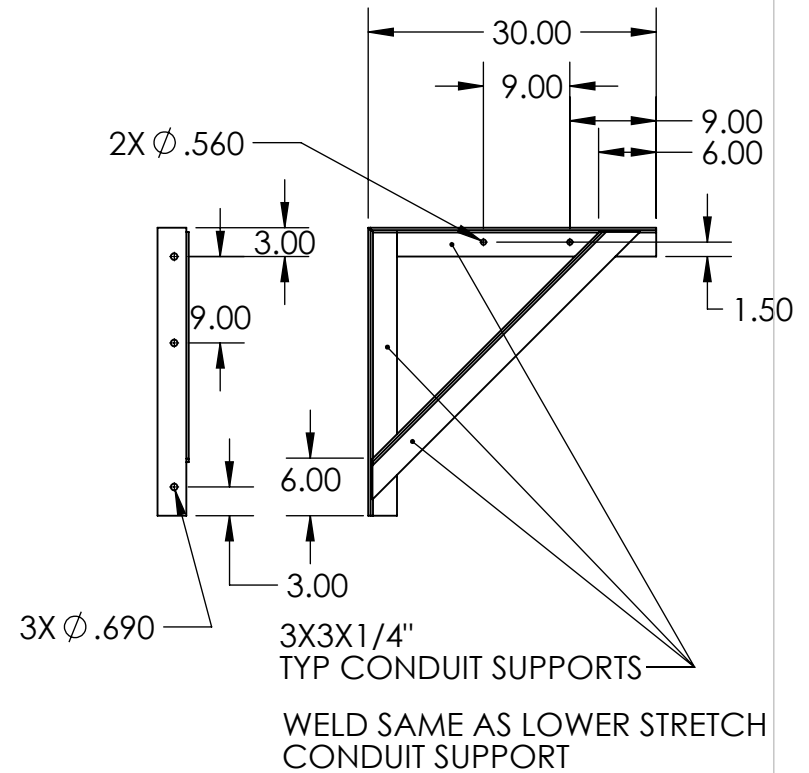
LOWER STRETCH CONDUIT SUPPORT

PN# Str_Brac-04



UPPER STRETCH CONDUIT SUPPORT

PN# Str_Brac-05



PROPRIETARY AND CONFIDENTIAL

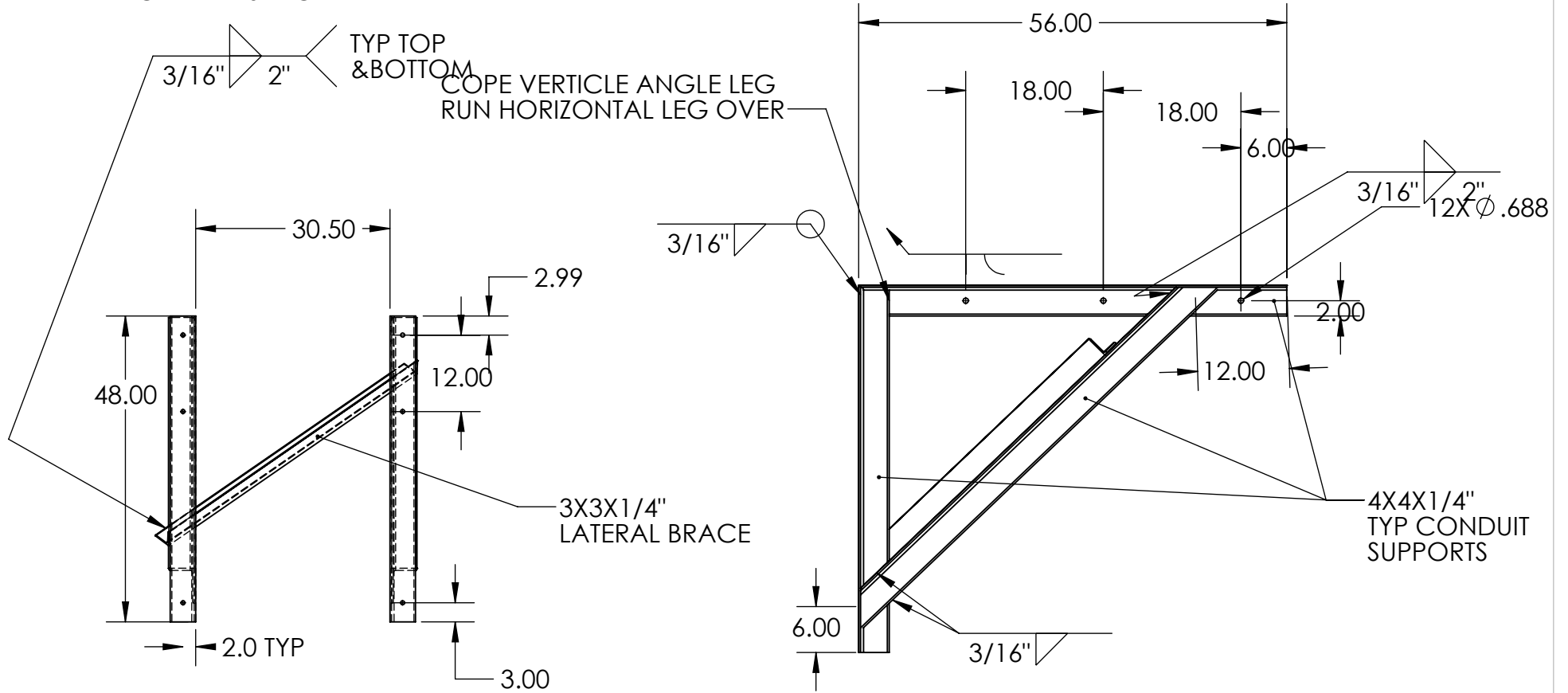
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012
		TOLERANCES:	CHECKED		
		FRACTIONAL ± 1/16	ENG APPR.		
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.		
		ONE PLACE DECIMAL ± .1	Q.A.		
		TWO PLACE DECIMAL ± .06	COMMENTS:		
		THREE PLACE DECIMAL ± 0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100			
		MATERIAL			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

TITLE:		
STRUCTURAL BRACING LOWER AND UPPER CONDUIT SUPPORTS		
SIZE	DWG. NO.	REV
A		01
SCALE: 1:20	WEIGHT:	SHEET 4 OF 35

LATERAL BRACING
LOWER REST BOX

LOWER REST BOX SUPPORTS



PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

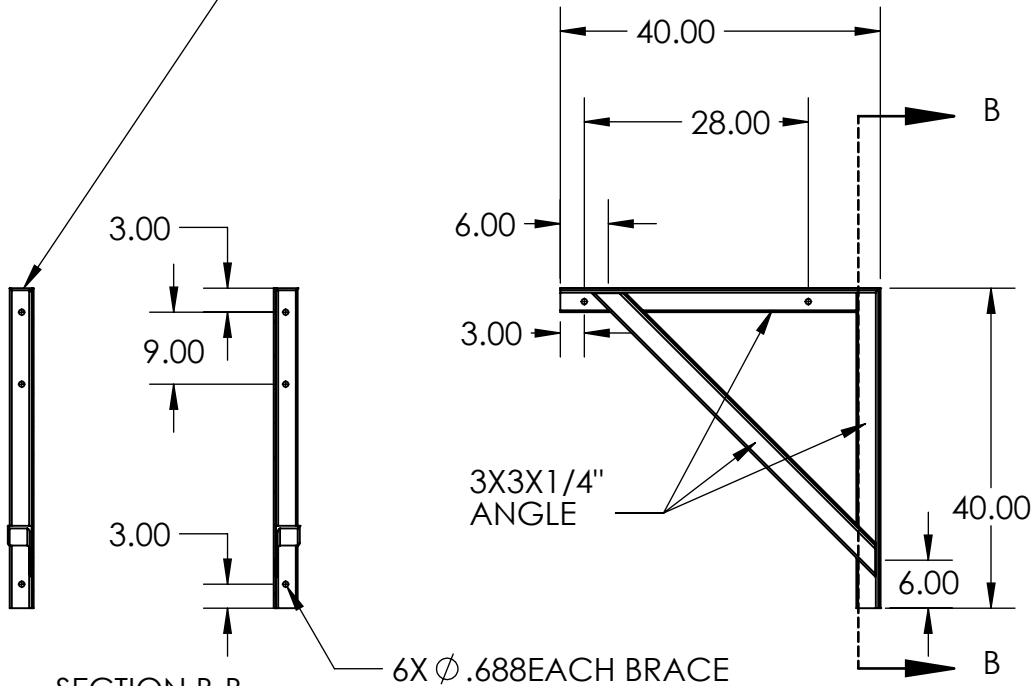
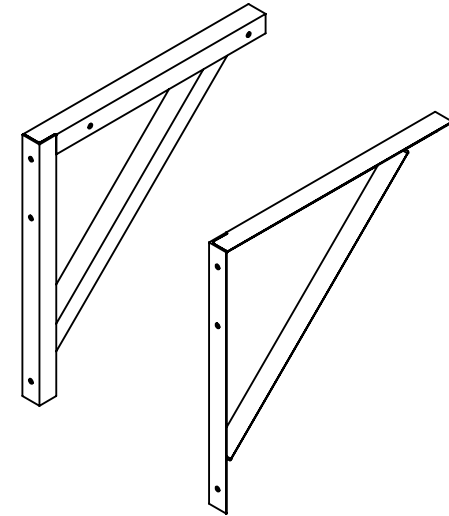
		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012
		TOLERANCES:	CHECKED		
		FRACTIONAL ± 1/16	ENG APPR.		
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.		
		ONE PLACE DECIMAL ± .1	Q.A.		
		TWO PLACE DECIMAL ± .06	COMMENTS:		
		THREE PLACE DECIMAL ± 0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100			
		MATERIAL			
		6061 Alloy			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

TITLE:		
Rest Box #1 Supports		
SIZE	DWG. NO.	REV
A	Str_brac_03-1	01
SCALE: 1:20	WEIGHT:	SHEET 5 OF 35

UPPER REST BOX SUPPORTS

MIRROR IMAGE OF BRACE 1

BRACE 1



SECTION B-B
SCALE 1 : 24

6X Ø .688 EACH BRACE

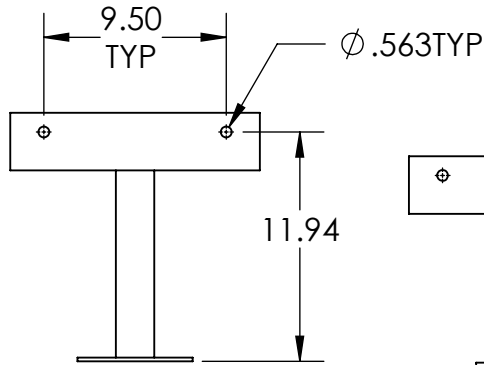


PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

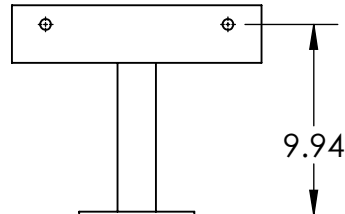
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012
		TOLERANCES:		CHECKED		
		FRACTIONAL ± 1/16		ENG APPR.		TITLE:
		ANGULAR: MACH ±0.5 BEND ±2		MFG APPR.		UPPER RESTING BOX SUPPORT
		ONE PLACE DECIMAL ±.1		Q.A.		
		TWO PLACE DECIMAL ±.06		COMMENTS:		
		THREE PLACE DECIMAL ±0.030				
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100				SIZE DWG. NO. REV
		MATERIAL				A Str_brac_02 01
NEXT ASSY	USED ON	FINISH				SCALE: 1:20 WEIGHT: SHEET 6 OF 35
	APPLICATION	DO NOT SCALE DRAWING				

DECK CONDUIT SUPPORTS

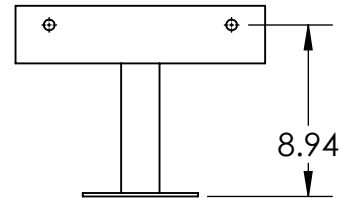
Str_stand-04



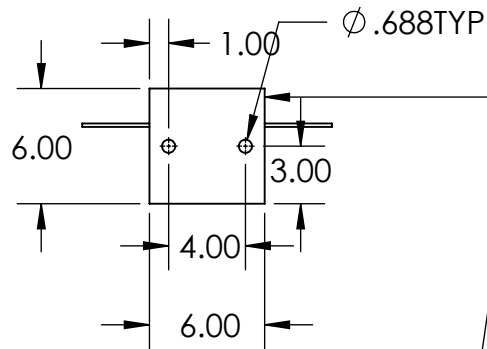
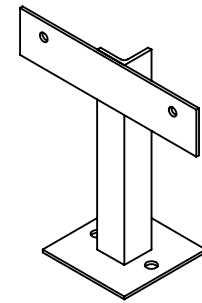
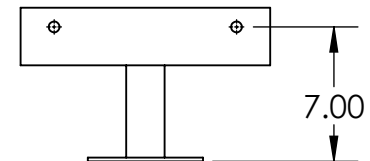
Str_stand-03



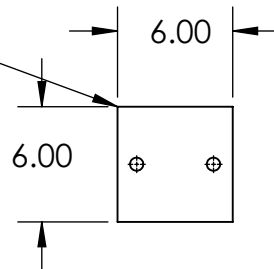
Str_stand-02



Str_stand

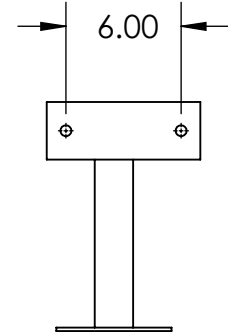


SHIM FOR STANDS



3/8" 50-52 AL
NO BITUMEN

str_stand-03-2



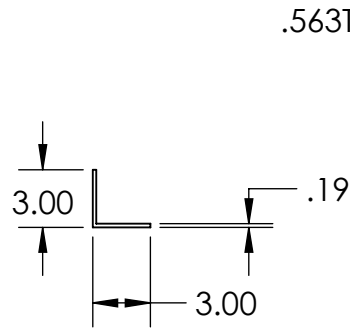
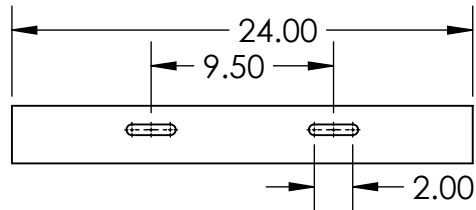
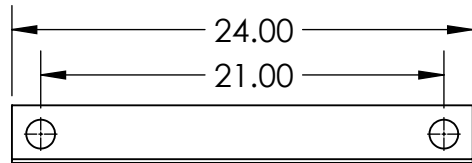
BASE MOUNT PLATE



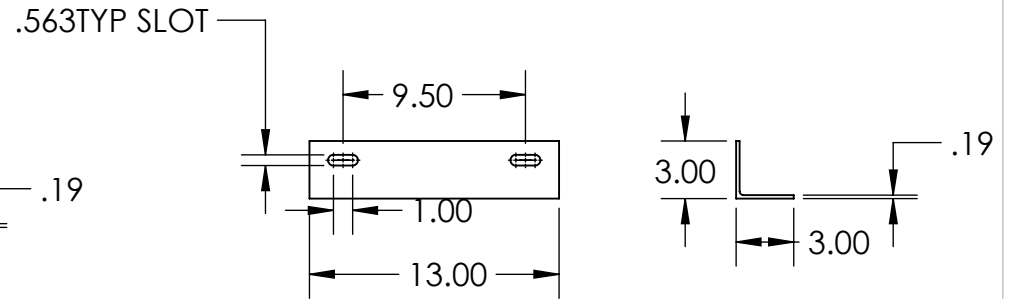
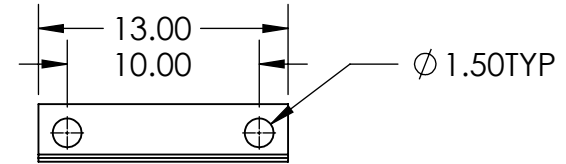
PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012	
		TOLERANCES:		CHECKED			TITLE:
		FRACTIONAL ± 1/16		ENG APPR.			Conduit Attachment stand
		ANGULAR: MACH ±0.5 BEND ±2		MFG APPR.			
		ONE PLACE DECIMAL ±.1		Q.A.			
		TWO PLACE DECIMAL ±.06		COMMENTS:			
		THREE PLACE DECIMAL ±0.030					
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					
		MATERIAL					SIZE DWG. NO. REV
		6061 Alloy					A Str_stand-04 01
NEXT ASSY	USED ON	FINISH					SCALE: 1:10 WEIGHT: SHEET 7 OF 35
APPLICATION		DO NOT SCALE DRAWING					

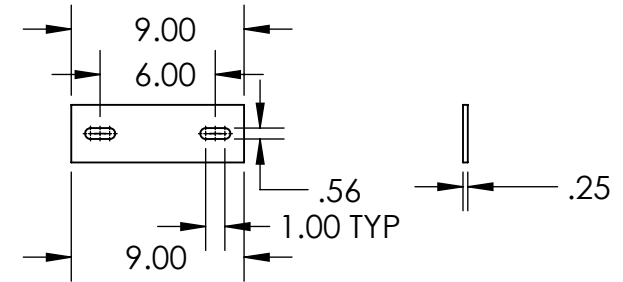
Str_spacer_04



Str_spacer_08



Str_spacer_10

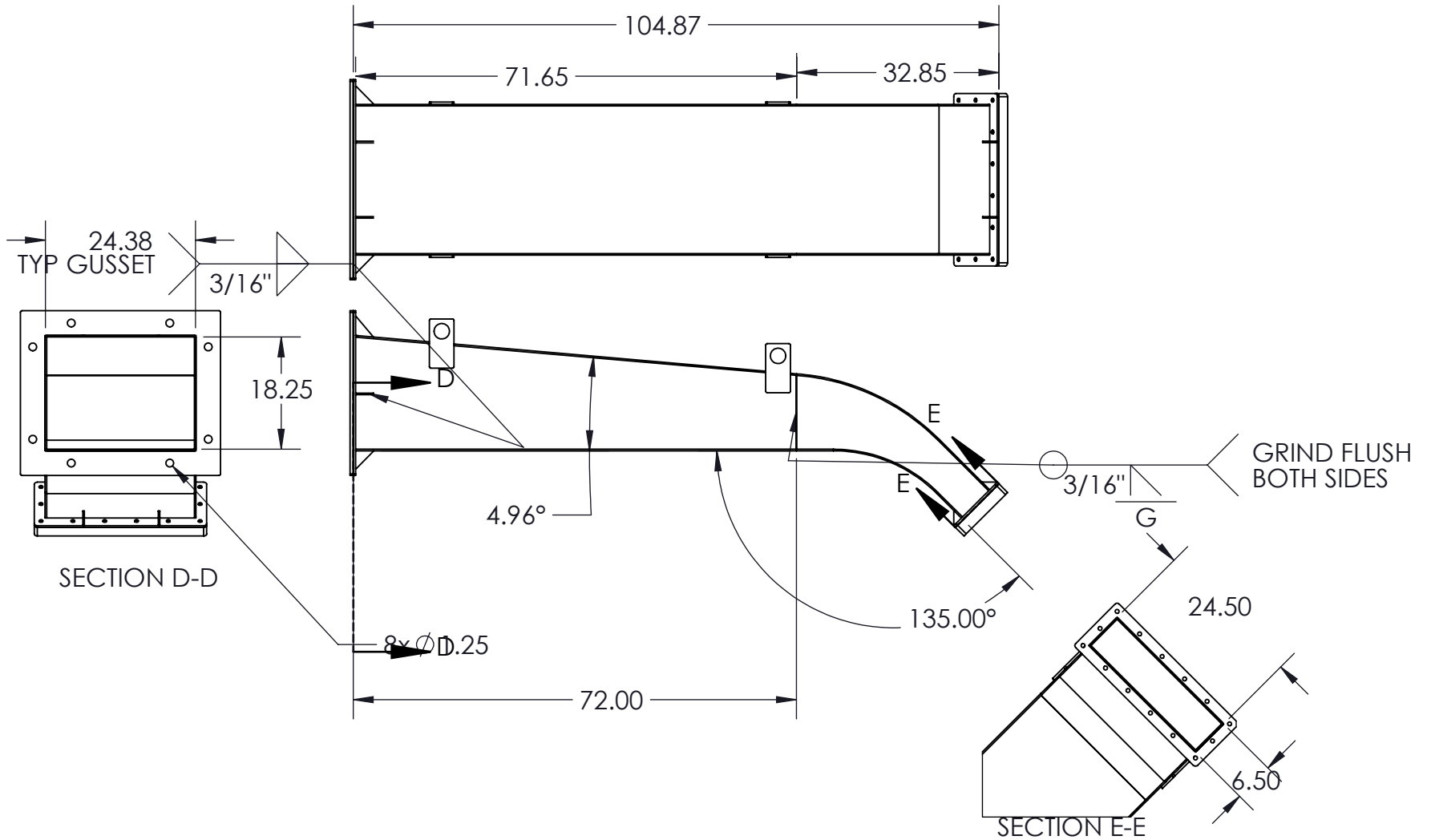


50-52 AL OKAY IF BENDING OR FLAT
60-61 AL FOR SHAPES



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012	
		TOLERANCES:		CHECKED			TITLE:
		FRACTIONAL ± 1/16		ENG APPR.			Conduit Attachment
		ANGULAR: MACH ± 0.5 BEND ± 2		MFG APPR.			
		ONE PLACE DECIMAL ± .1		Q.A.			SIZE
		TWO PLACE DECIMAL ± .06		COMMENTS:			DWG. NO.
		THREE PLACE DECIMAL ± 0.030					REV
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					01
		MATERIAL					
		6061 Alloy					
		FINISH					
NEXT ASSY	USED ON						
APPLICATION		DO NOT SCALE DRAWING					
							SCALE: 1:10
							WEIGHT:
							SHEET 8 OF 35

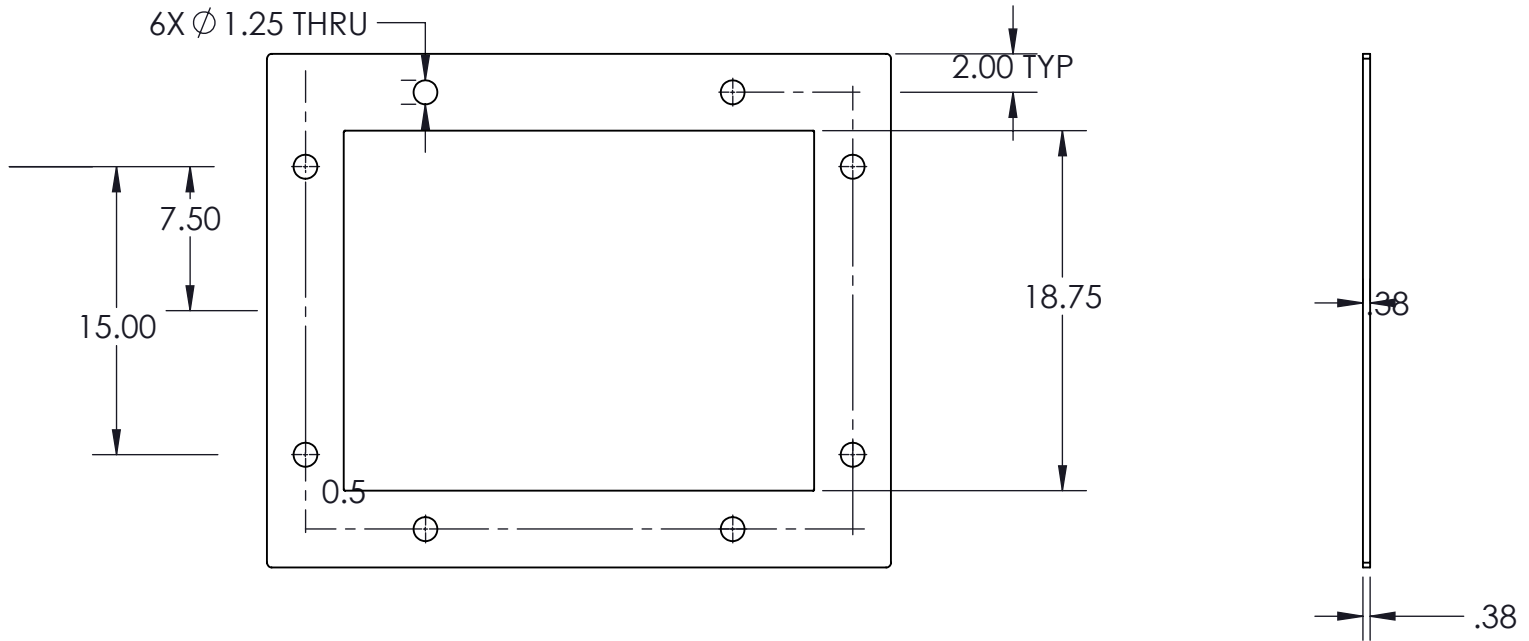


PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

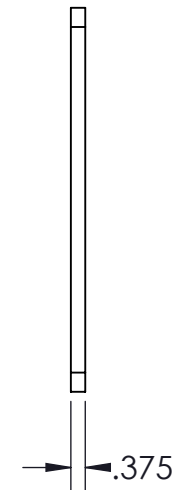
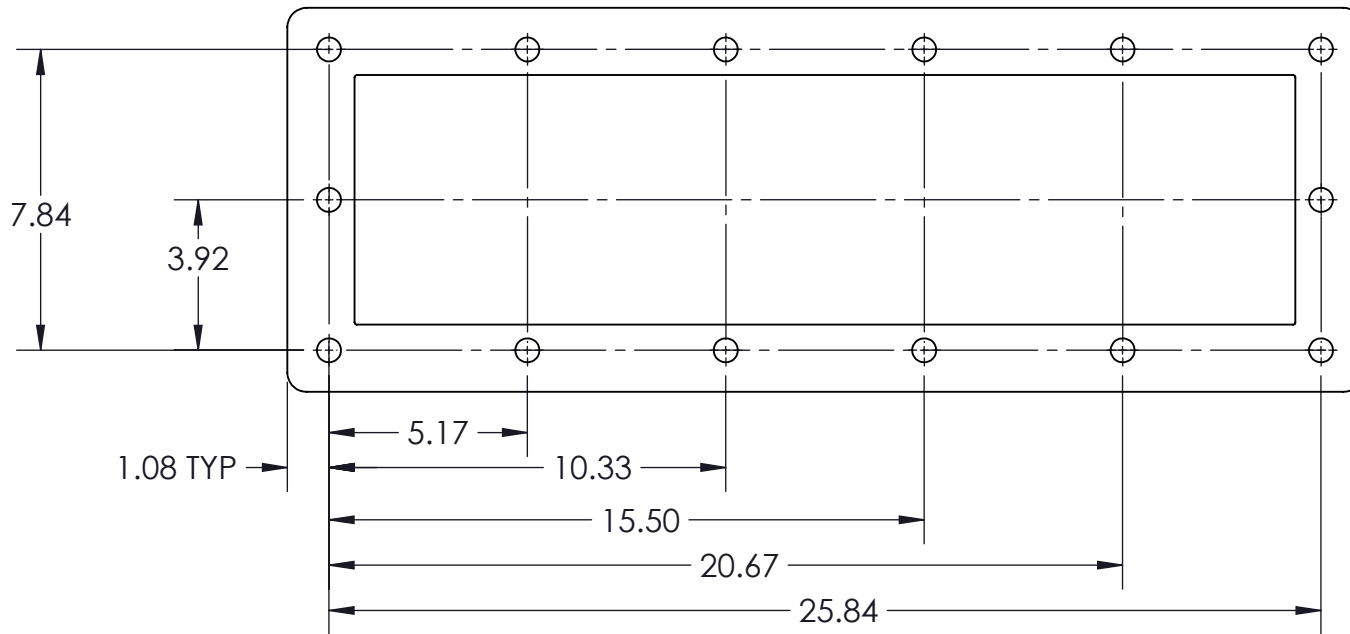
		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012
		TOLERANCES:	CHECKED		
		FRACTIONAL ± 1/16	ENG APPR.		
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.		
		ONE PLACE DECIMAL ± .1	Q.A.		
		TWO PLACE DECIMAL ± .06	COMMENTS:		
		THREE PLACE DECIMAL ± 0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100			
		MATERIAL			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

TITLE:		
TRANSITION WELD ASSEMBLY		
SIZE	DWG. NO.	REV
A	Transition	01
SCALE: 1:25	WEIGHT:	SHEET 9 OF 35



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012	TITLE:
		TOLERANCES:	CHECKED			
		FRACTIONAL ± 1/16	ENG APPR.			
		ANGULAR: MACH ±0.5 BEND ±2	MFG APPR.			
		ONE PLACE DECIMAL ±.1	Q.A.			
		TWO PLACE DECIMAL ±.06	COMMENTS:			SIZE DWG. NO. REV
		THREE PLACE DECIMAL ±0.030				A Tran_Flange_18x24 01
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100				SCALE: 1:10 WEIGHT: SHEET 10 OF 35
		MATERIAL				
		5052-H36				
		FINISH				
NEXT ASSY	USED ON					
APPLICATION		DO NOT SCALE DRAWING				

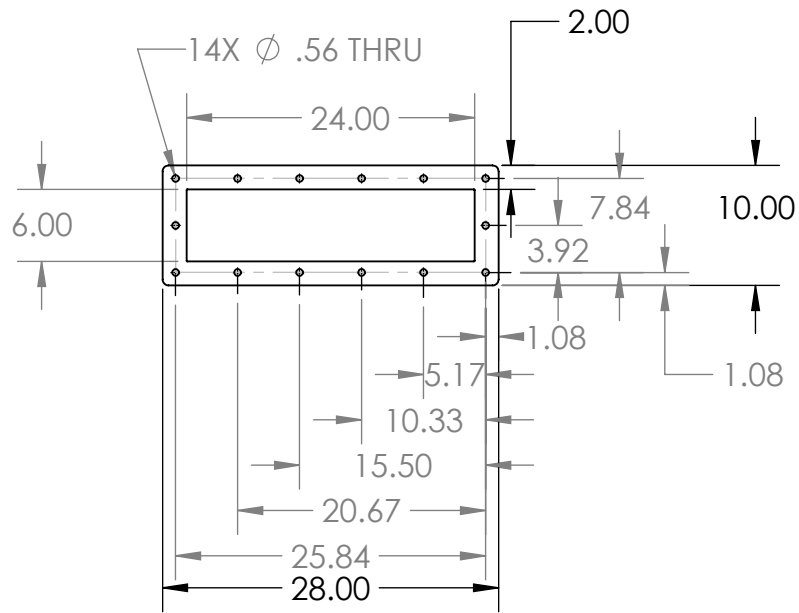


PROPRIETARY AND CONFIDENTIAL

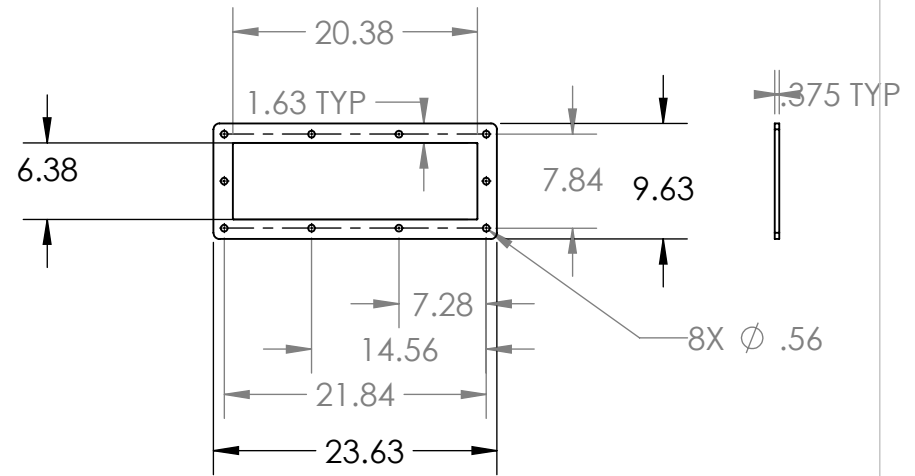
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012
		TOLERANCES:	CHECKED		TITLE:
		FRACTIONAL $\pm 1/16$	ENG APPR.		
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.		
		ONE PLACE DECIMAL $\pm .1$	Q.A.		
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:		
		THREE PLACE DECIMAL ± 0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100			
		MATERIAL			SIZE
		5052-H36			DWG. NO.
		FINISH			REV
NEXT ASSY	USED ON				01
APPLICATION		DO NOT SCALE DRAWING			SCALE: 1:5
					WEIGHT:
					SHEET 11 OF 35

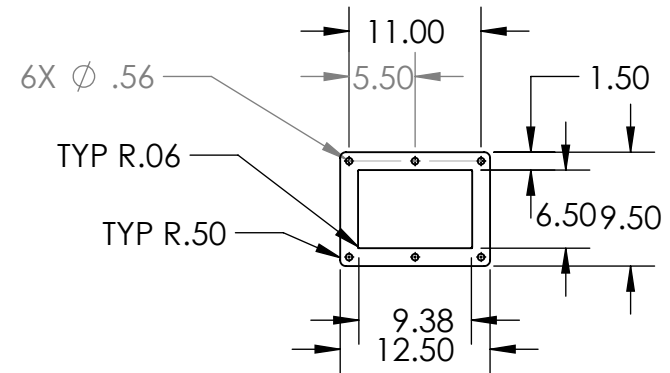
SIZE	DWG. NO.	REV
A	FLANGE24X6	01
SCALE: 1:5	WEIGHT:	SHEET 11 OF 35



TYPICAL FLANGE FOR 24"X6" CLIMBING DUCT



TYPICAL FLANGE FOR 20"X6" CLIMBING DUCT
HOLE SPACING UNDETERMINED

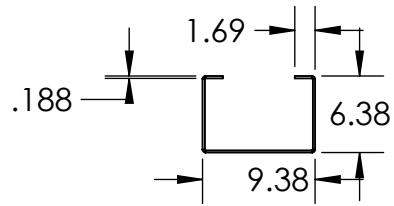


TYPICAL FLANGE FOR 9"X6" HORIZONTAL DUCT

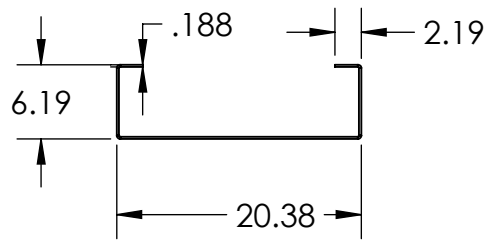


PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012	0.375
		TOLERANCES:		CHECKED			TITLE:
		FRACTIONAL ± 1/16		ENG APPR.			
		ANGULAR: MACH ± 0.5 BEND ± 2		MFG APPR.			
		ONE PLACE DECIMAL ± .1		Q.A.			
		TWO PLACE DECIMAL ± .06		COMMENTS:			
		THREE PLACE DECIMAL ± 0.030					
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					
		MATERIAL					
		5052-H32					
		FINISH					
NEXT ASSY	USED ON					SIZE	DWG. NO.
						A	
APPLICATION		DO NOT SCALE DRAWING					REV
							01
						SCALE: 1:80	WEIGHT:
							SHEET 12 OF 35



TYPICAL CROSS SECTION FOR BENT CHANNEL
9"X6" HORIZONTAL DUCT



TYPICAL CROSS SECTION FOR BENT CHANNEL
20"X6" CLIMBING DUCT

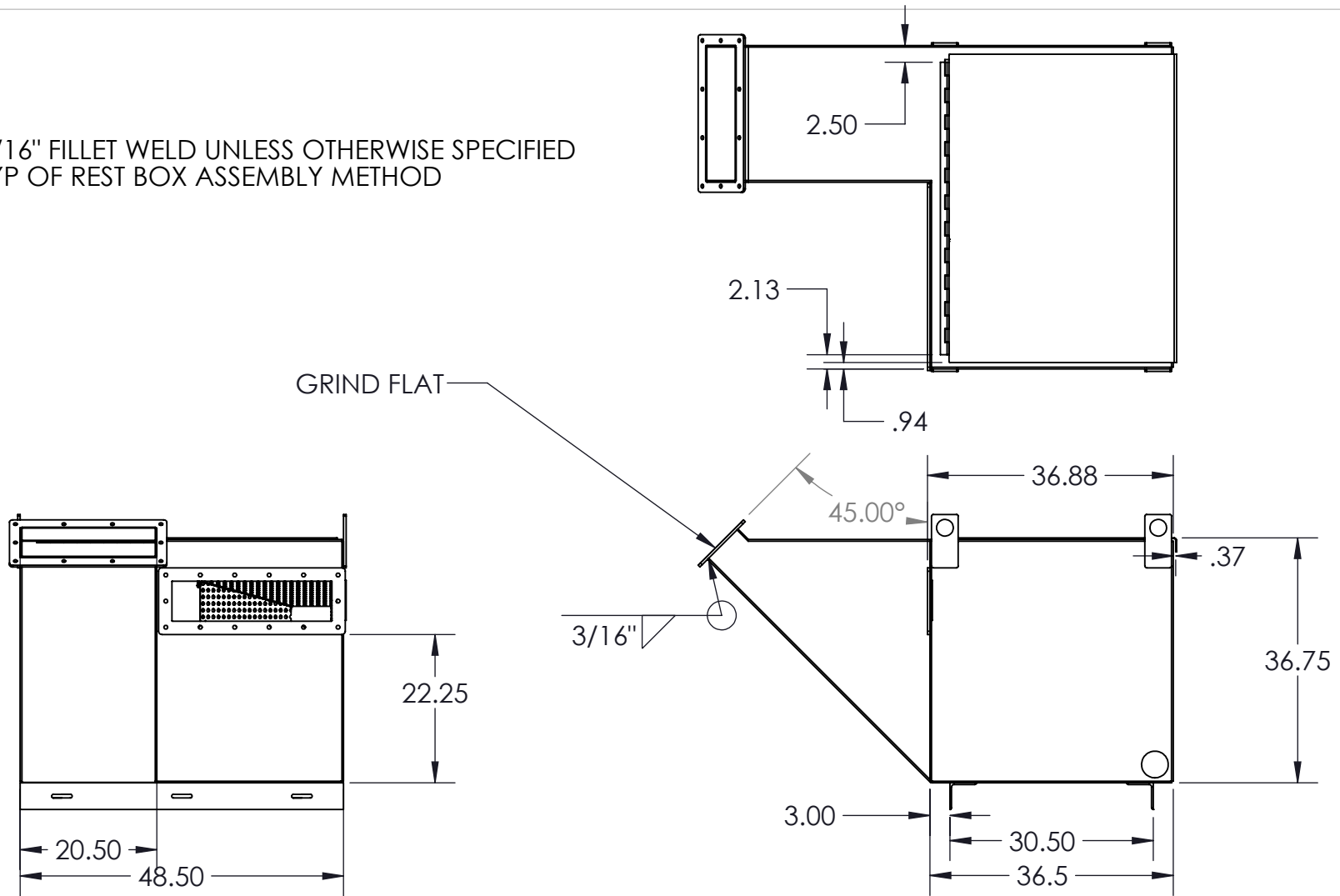
NOTES
ALUMINUM 50-52
INTERNAL SHARP OK
REFER TO DUCT DRAWINGS FOR DETAILS



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:				
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012	0.1875			
		TOLERANCES:		CHECKED			TITLE:			
		FRACTIONAL ± 1/16		ENG APPR.						
		ANGULAR: MACH ±0.5 BEND ±2		MFG APPR.						
		ONE PLACE DECIMAL ±.1		Q.A.						
		TWO PLACE DECIMAL ±.06		COMMENTS:						
		THREE PLACE DECIMAL ±0.030								
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					SIZE	DWG. NO.	REV	
		MATERIAL					A		01	
		5052-H32					SCALE: 1:80		WEIGHT:	SHEET 13 OF 35
		FINISH								
NEXT ASSY	USED ON									
APPLICATION		DO NOT SCALE DRAWING								

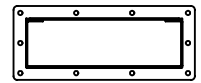
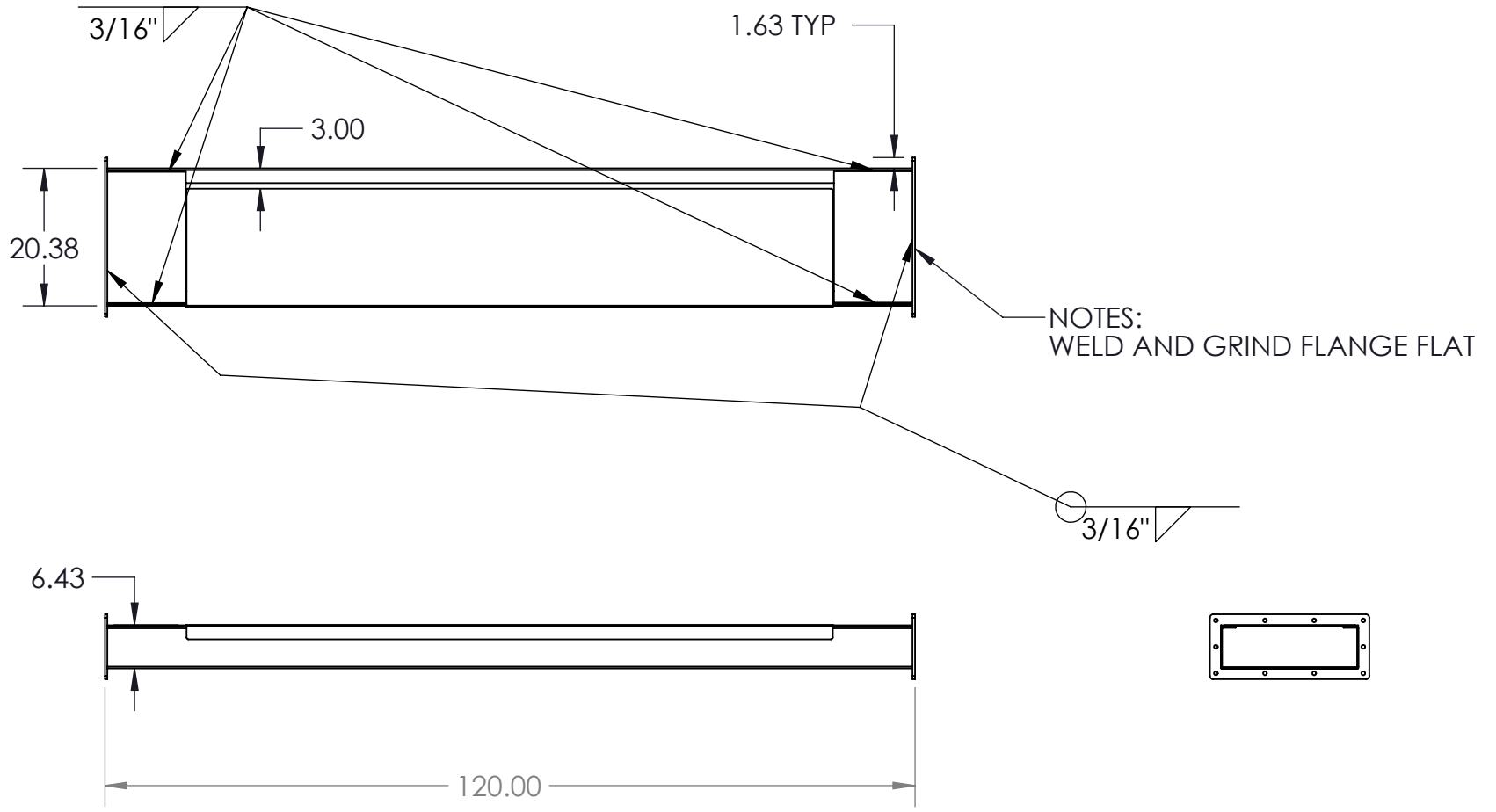
3/16" FILLET WELD UNLESS OTHERWISE SPECIFIED
 TYP OF REST BOX ASSEMBLY METHOD



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012
		TOLERANCES:	CHECKED		
		FRACTIONAL ± 1/16	ENG APPR.		
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.		
		ONE PLACE DECIMAL ± .1	Q.A.		
		TWO PLACE DECIMAL ± .06	COMMENTS:		
		THREE PLACE DECIMAL ± 0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100			
		MATERIAL			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

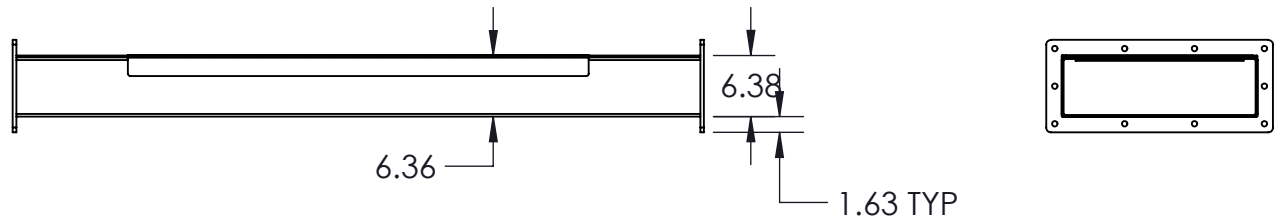
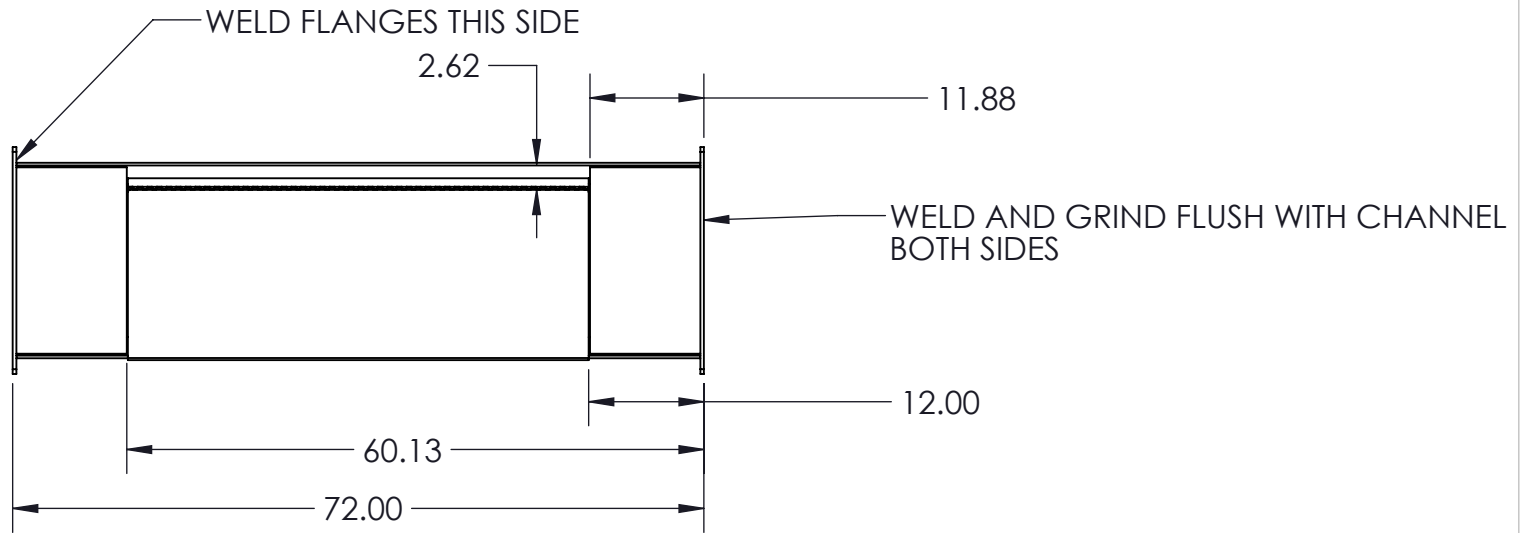
TITLE:		
REST BOX # 1		
SIZE	DWG. NO.	REV
A	Sheetmetal_Rest_Box_001	01
SCALE: 1:25	WEIGHT:	SHEET 14 OF 35



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012
		TOLERANCES:	CHECKED		
		FRACTIONAL ± 1/16	ENG APPR.		
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.		
		ONE PLACE DECIMAL ± .1	Q.A.		
		TWO PLACE DECIMAL ± .06	COMMENTS:		
		THREE PLACE DECIMAL ± 0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100			
		MATERIAL			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

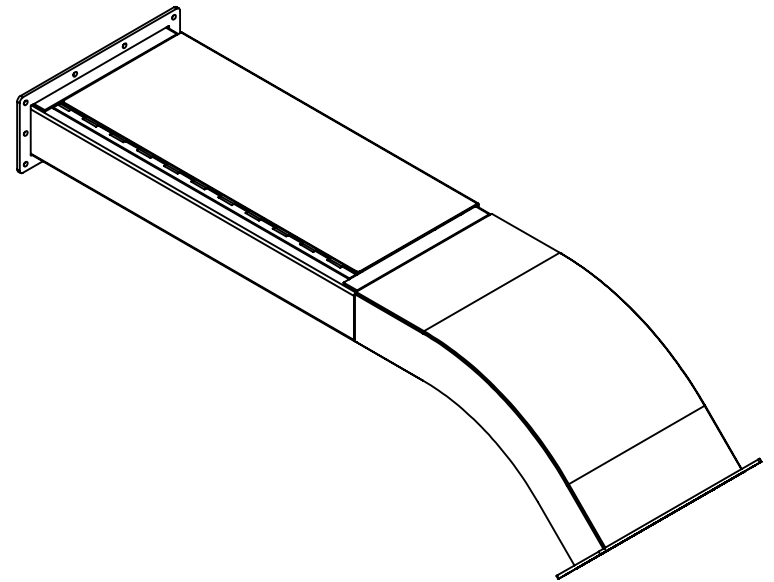
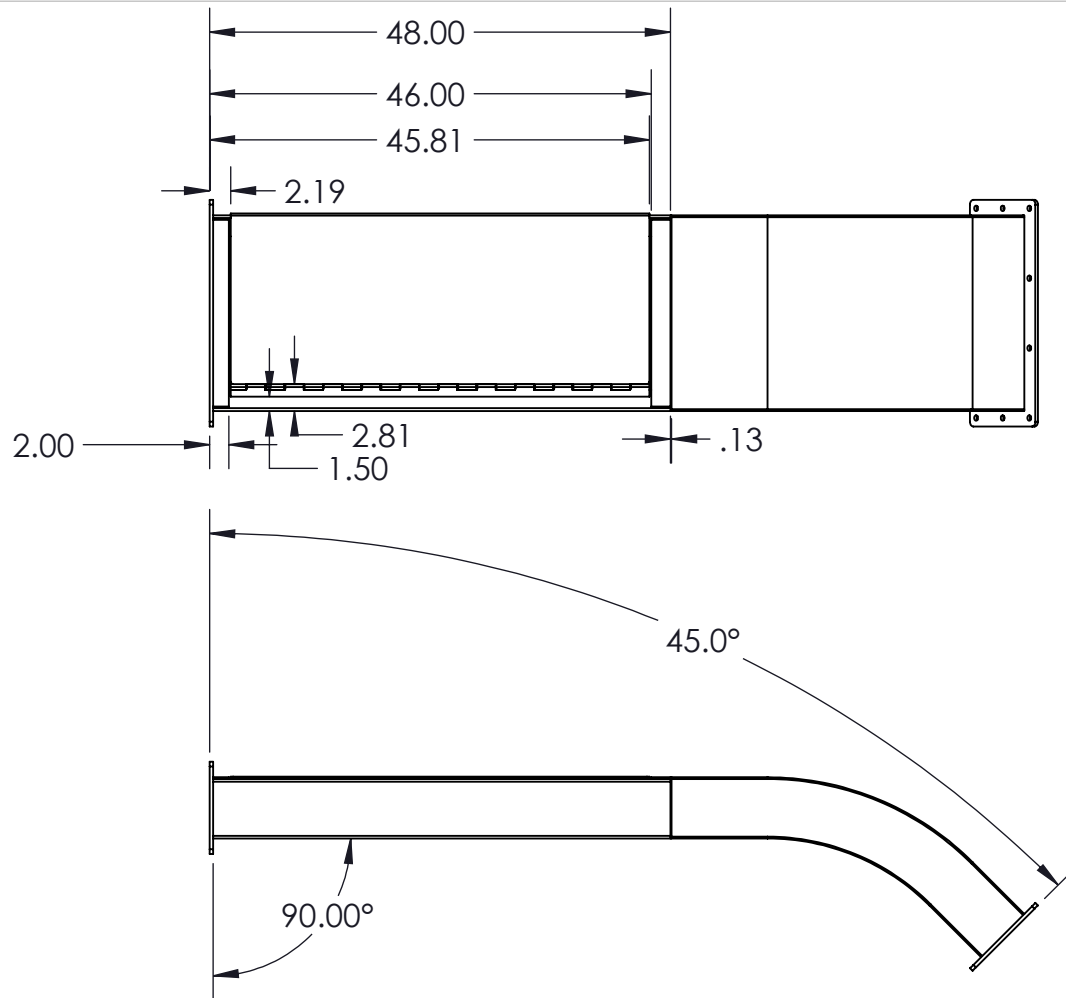
TITLE:		
SIZE	DWG. NO.	REV
A	Channel_8x20_10ft	01
SCALE: 1:25	WEIGHT:	SHEET 15 OF 35



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012
		TOLERANCES:	CHECKED		
		FRACTIONAL $\pm 1/16$	ENG APPR.		
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.		
		ONE PLACE DECIMAL $\pm .1$	Q.A.		
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:		
		THREE PLACE DECIMAL ± 0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100			
		MATERIAL			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

TITLE:		
Climbing Duct, 6ft		
SIZE	DWG. NO.	REV
A	Channel_8x20_6ft	01
SCALE: 1:20	WEIGHT:	SHEET 16 OF 35



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012
		TOLERANCES:	CHECKED		TITLE:
		FRACTIONAL ± 1/16	ENG APPR.		
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.		
		ONE PLACE DECIMAL ± .1	Q.A.		
		TWO PLACE DECIMAL ± .06	COMMENTS:		
		THREE PLACE DECIMAL ± 0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100			
		MATERIAL			
NEXT ASSY	USED ON	FINISH			SIZE DWG. NO. REV
					A Transition2 01
	APPLICATION	DO NOT SCALE DRAWING			SCALE: 1:20 WEIGHT: SHEET 17 OF 35

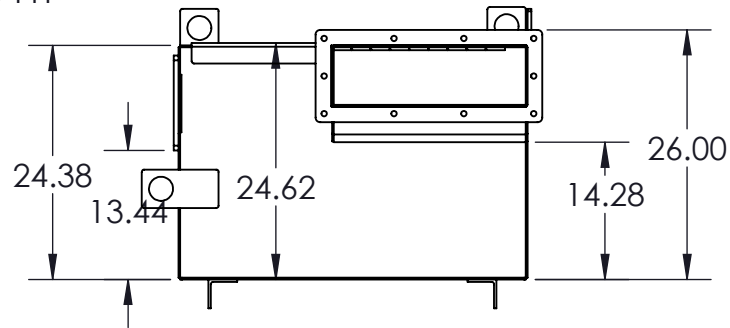
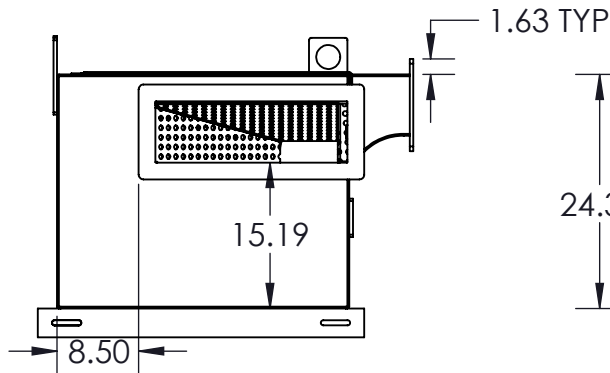
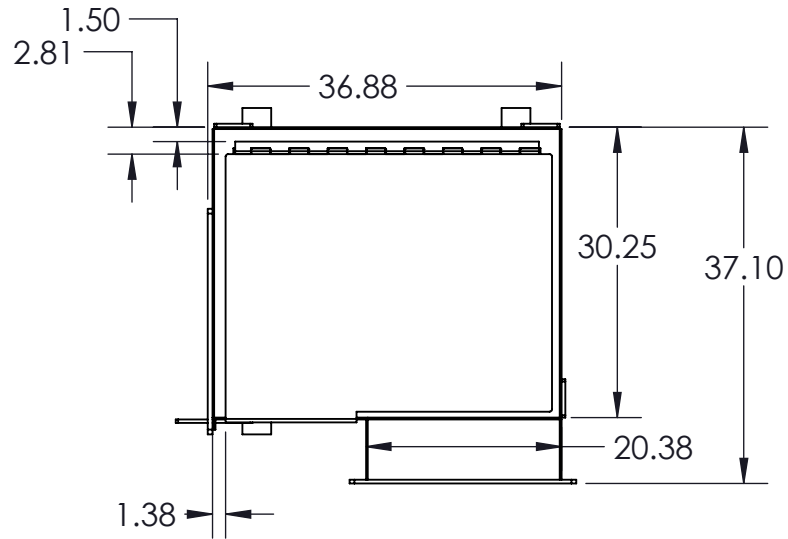
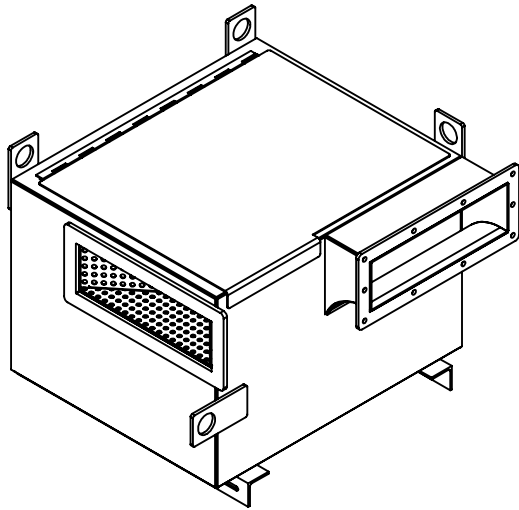
5

4

3

2

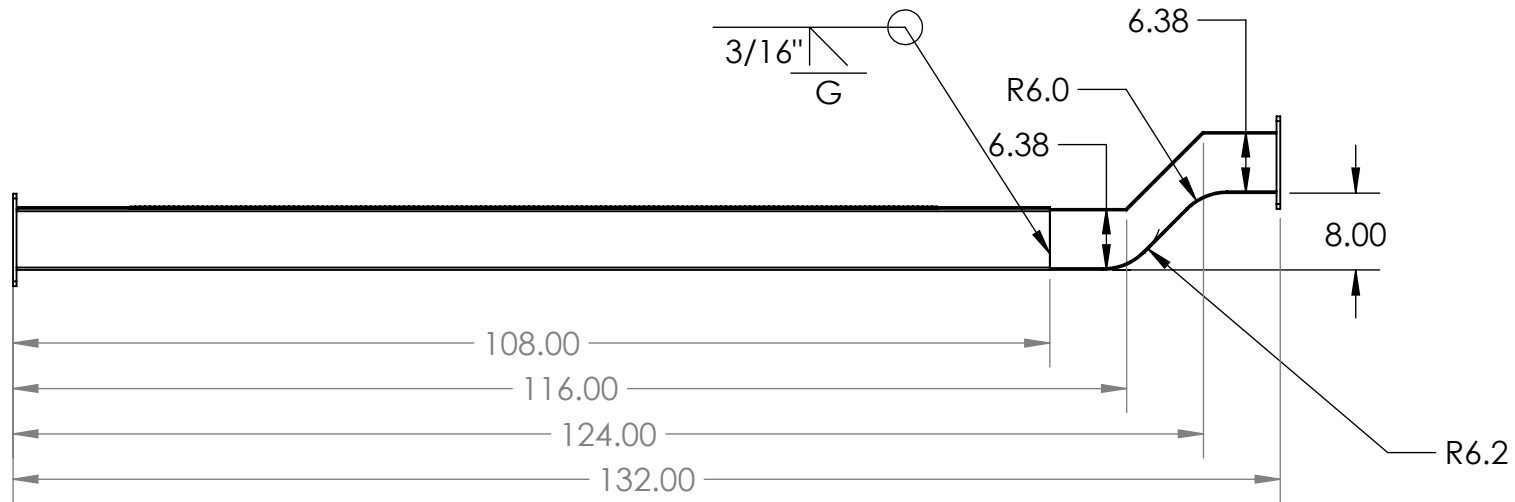
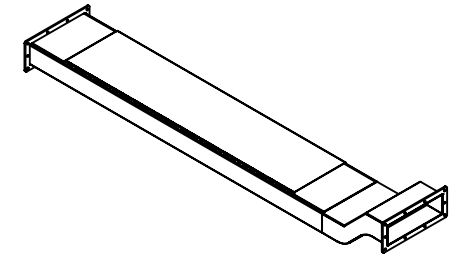
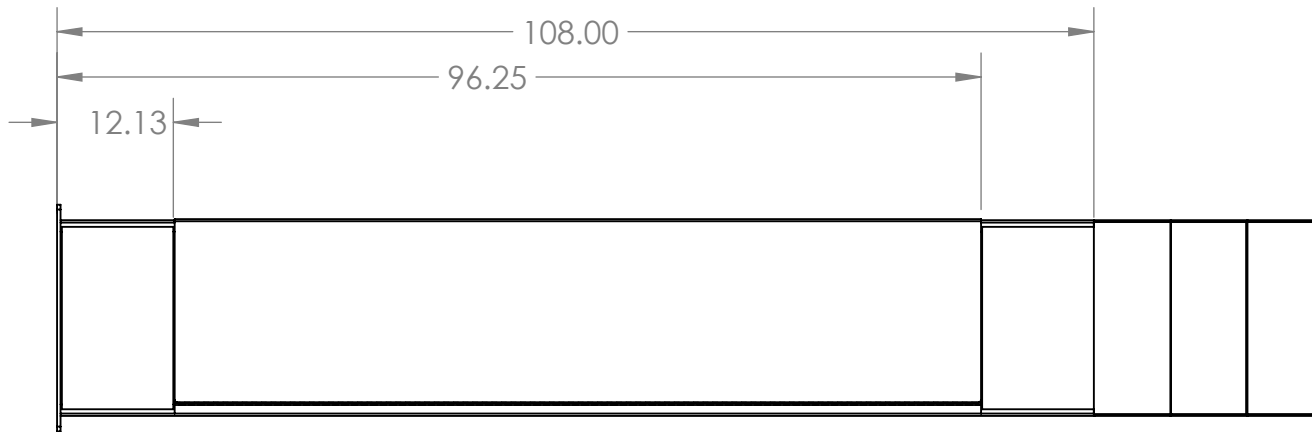
1



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012
		TOLERANCES:	CHECKED		
		FRACTIONAL ± 1/16	ENG APPR.		
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.		
		ONE PLACE DECIMAL ± .1	Q.A.		
		TWO PLACE DECIMAL ± .06	COMMENTS:		
		THREE PLACE DECIMAL ± 0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100			
		MATERIAL			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

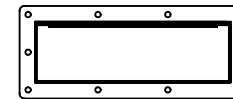
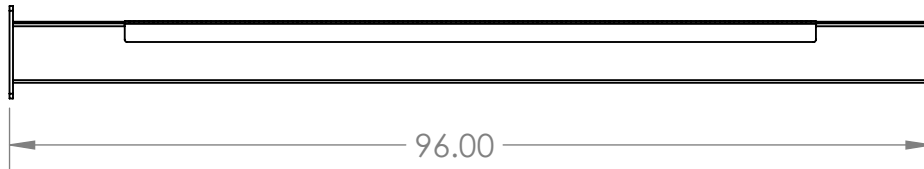
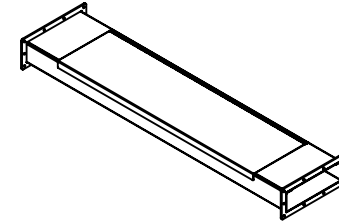
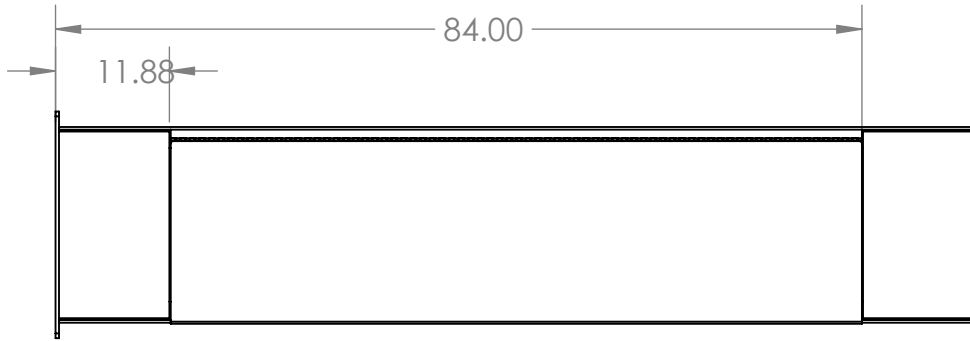
TITLE:		
REST BOX #1		
SIZE	DWG. NO.	REV
A	Sheetmetal_Rest_Box_002	01
SCALE: 1:20	WEIGHT:	SHEET 18 OF 35



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ
		TOLERANCES:	CHECKED	11/28/2012
		FRACTIONAL ± 1/16	ENG APPR.	
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.	
		ONE PLACE DECIMAL ± .1	Q.A.	
		TWO PLACE DECIMAL ± .06	COMMENTS:	
		THREE PLACE DECIMAL ± 0.030		
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100		
		MATERIAL		
NEXT ASSY	USED ON	FINISH		
APPLICATION		DO NOT SCALE DRAWING		

STOCK SIZE:		
TITLE:		
SIZE	DWG. NO.	REV
A	Channel_6x20_9ftStep	01
SCALE: 1:20	WEIGHT:	SHEET 19 OF 35

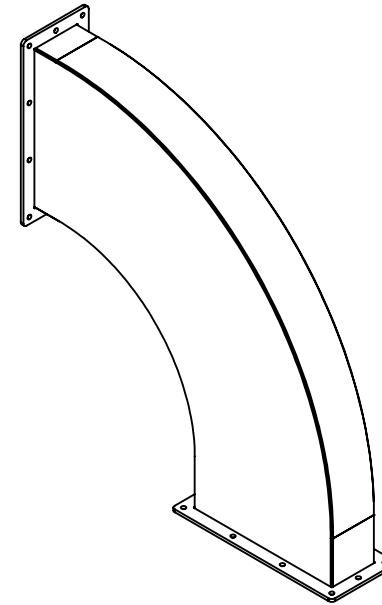
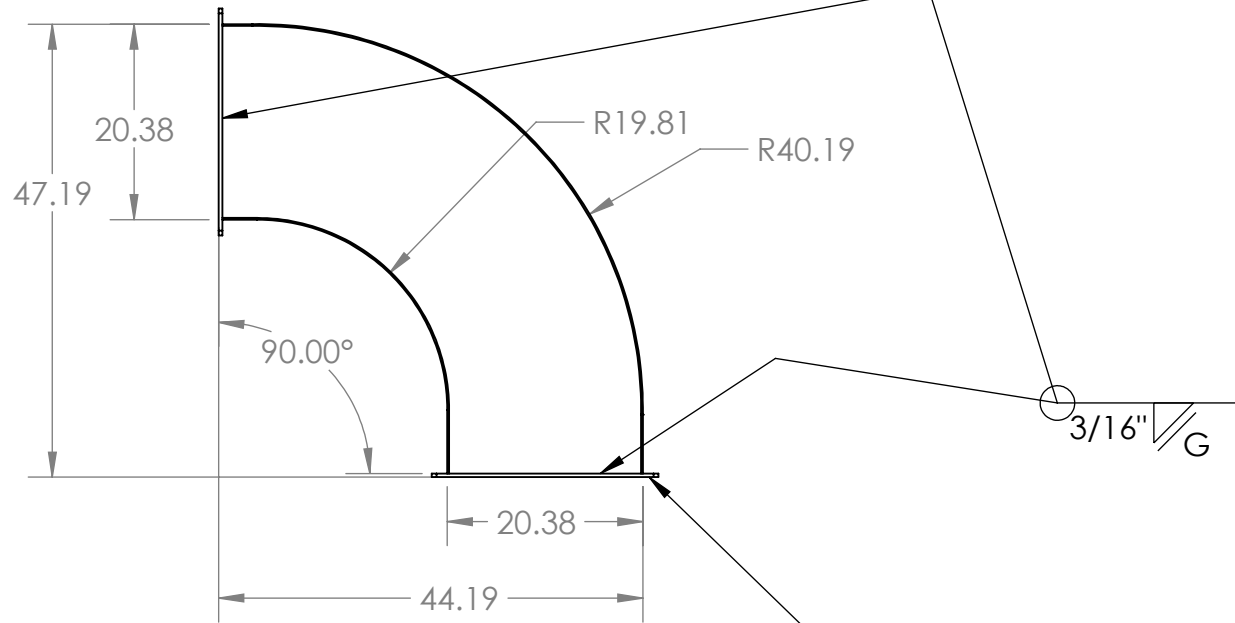


PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ
		TOLERANCES:	CHECKED	11/28/2012
		FRACTIONAL ± 1/16	ENG APPR.	
		ANGULAR: MACH ±0.5 BEND ±2	MFG APPR.	
		ONE PLACE DECIMAL ±.1	Q.A.	
		TWO PLACE DECIMAL ±.06	COMMENTS:	
		THREE PLACE DECIMAL ±0.030		
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100		
		MATERIAL		
NEXT ASSY	USED ON	FINISH		
APPLICATION		DO NOT SCALE DRAWING		

STOCK SIZE:		
TITLE: Climbing Duct, 6ft		
SIZE A	DWG. NO. Channel_8x20_8ft	REV 01
SCALE: 1:20	WEIGHT:	SHEET 20 OF 35

3/16" FILLET WELD ALL CORNERS

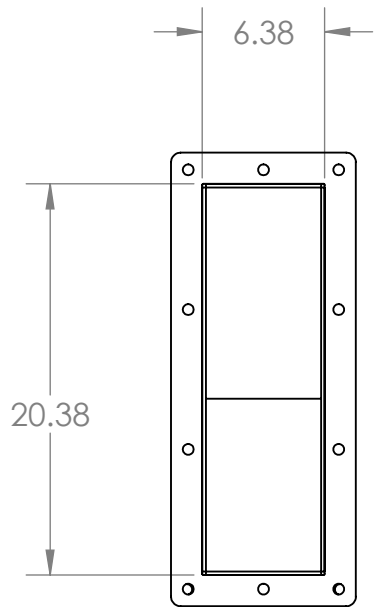


TYP
MOUNT FLANGE FLUSH WITH DUCT
GRIND FLAT

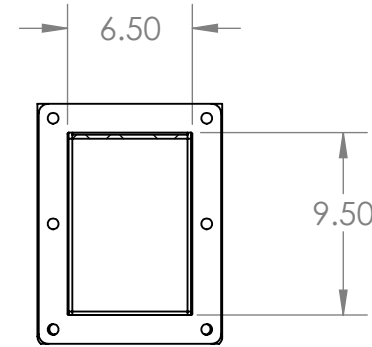
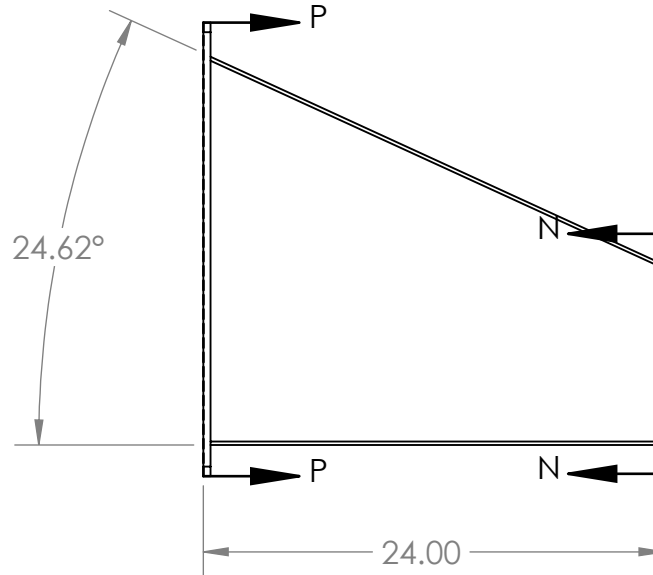


PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS
DRAWING IS THE SOLE PROPERTY OF
UNIVERSITY OF IDAHO. ANY
REPRODUCTION IN PART OR AS A WHOLE
WITHOUT THE WRITTEN PERMISSION OF
UNIVERSITY OF IDAHO IS
PROHIBITED.

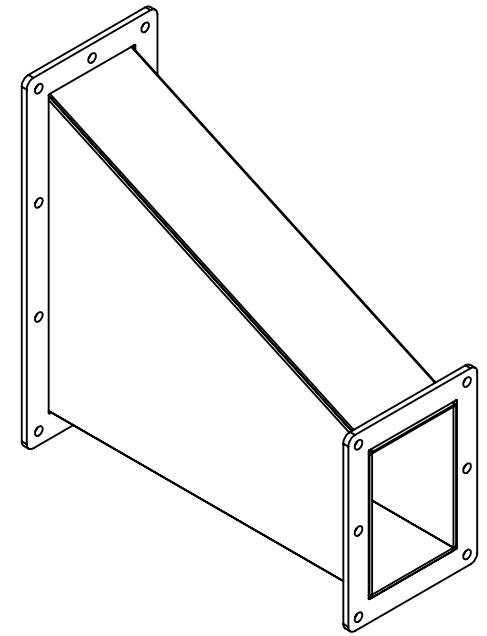
		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012	TITLE:
		TOLERANCES:	CHECKED			
		FRACTIONAL ± 1/16	ENG APPR.			
		ANGULAR: MACH ±0.5 BEND ±2	MFG APPR.			
		ONE PLACE DECIMAL ±.1	Q.A.			
		TWO PLACE DECIMAL ±.06	COMMENTS:			
		THREE PLACE DECIMAL ±0.030				
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100				SIZE DWG. NO. REV
		MATERIAL				A Tran_90deg_Elbow 01
NEXT ASSY	USED ON	FINISH				SCALE: 1:20 WEIGHT: SHEET 21 OF 35
APPLICATION		DO NOT SCALE DRAWING				



SECTION P-P



SECTION N-N

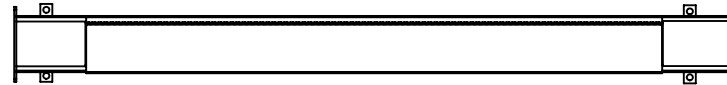
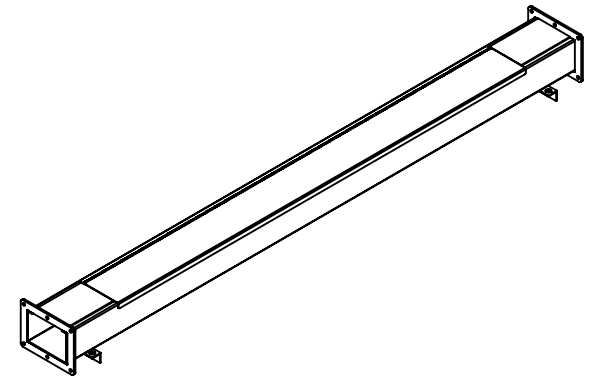


PROPRIETARY AND CONFIDENTIAL

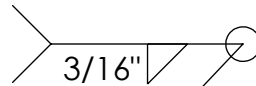
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ
		TOLERANCES:	CHECKED	11/28/2012
		FRACTIONAL ± 1/16	ENG APPR.	
		ANGULAR: MACH ±0.5 BEND ±2	MFG APPR.	
		ONE PLACE DECIMAL ±.1	Q.A.	
		TWO PLACE DECIMAL ±.06	COMMENTS:	
		THREE PLACE DECIMAL ±0.030		
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100		
		MATERIAL		
NEXT ASSY	USED ON	FINISH		
APPLICATION		DO NOT SCALE DRAWING		

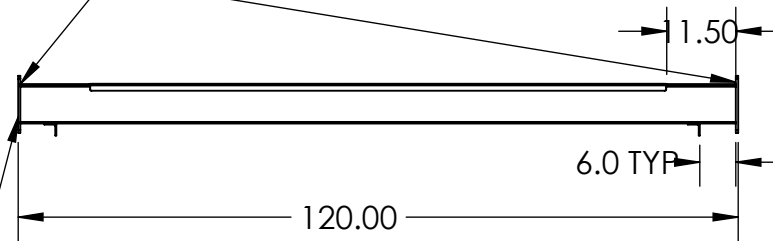
STOCK SIZE:		
TITLE:		
SIZE	DWG. NO.	REV
A	Expansion_01	01
SCALE: 1:10	WEIGHT:	SHEET 22 OF 35



MOUNT FLANGES FLUSH WITH END



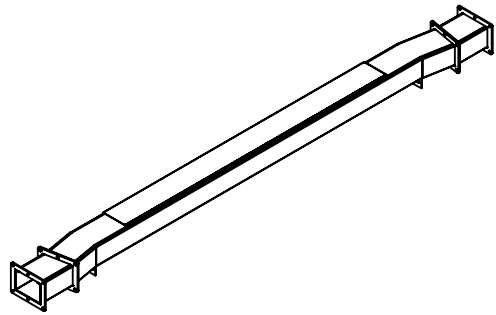
GRIND FACES FLUSH
NO BURRS INSIDE CHANNEL
TYP OF ALL FLANGE MOUNTS



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

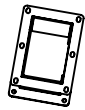
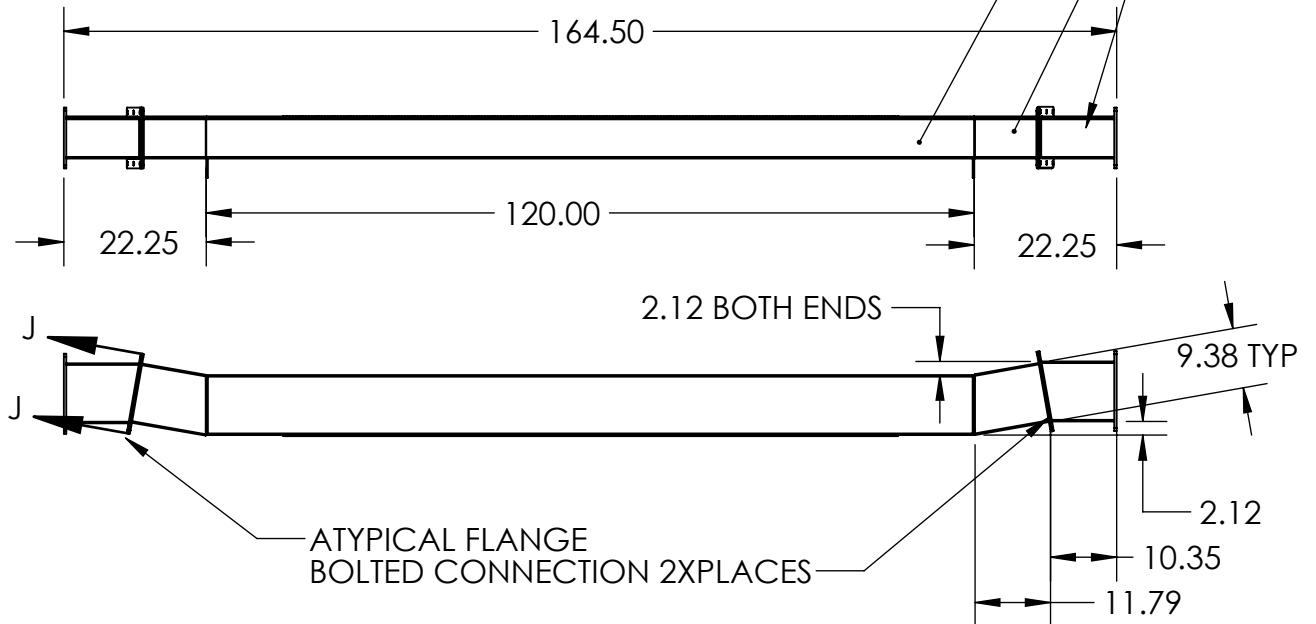
		UNLESS OTHERWISE SPECIFIED:	NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ
		TOLERANCES:	CHECKED	11/28/2012
		FRACTIONAL ± 1/16	ENG APPR.	
		ANGULAR: MACH ±0.5 BEND ±2	MFG APPR.	
		ONE PLACE DECIMAL ±.1	Q.A.	
		TWO PLACE DECIMAL ±.06	COMMENTS:	
		THREE PLACE DECIMAL ±0.030		
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100		
		MATERIAL		
NEXT ASSY	USED ON	FINISH		
APPLICATION		DO NOT SCALE DRAWING		

STOCK SIZE:		
TITLE: Narrow Channel		
SIZE A	DWG. NO. Channel_6x9_10ft	REV 01
SCALE: 1:10	WEIGHT: 71.34	SHEET 23 OF 35



WELDED CHANNEL
BOLTED AT ANGLE INTERFACE
BOTH SIDES

BENT C-CHANNEL
6"X9" TYP CROSS-SECTION



SECTION J-J

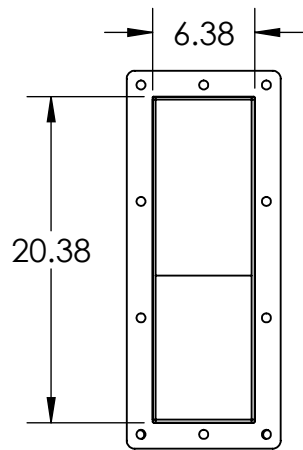
ATYPICAL FLANGE
BOLTED CONNECTION 2XPLACES



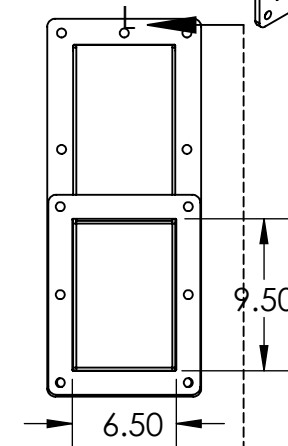
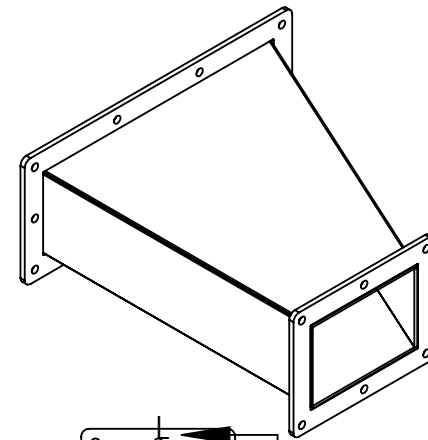
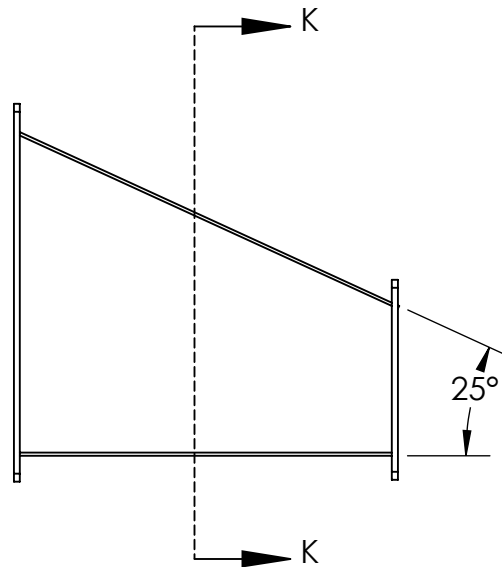
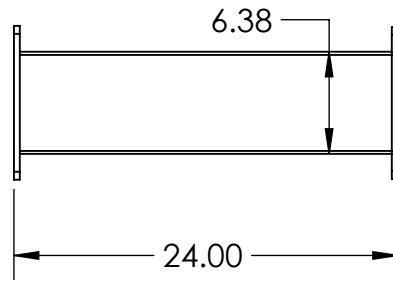
PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ 11/28/2012
		TOLERANCES:		CHECKED	
		FRACTIONAL ± 1/16		ENG APPR.	
		ANGULAR: MACH ± 0.5 BEND ± 2		MFG APPR.	
		ONE PLACE DECIMAL ± .1		Q.A.	
		TWO PLACE DECIMAL ± .06		COMMENTS:	
		THREE PLACE DECIMAL ± 0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100			
		MATERIAL			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

STOCK SIZE:		
TITLE:		
SIZE	DWG. NO.	REV
A	Channel_6x9_Jog	01
SCALE: 1:30	WEIGHT:	SHEET 24 OF 35



VIEW K-K
SCALE 1 : 12



VIEW L-L
SCALE 1 : 12

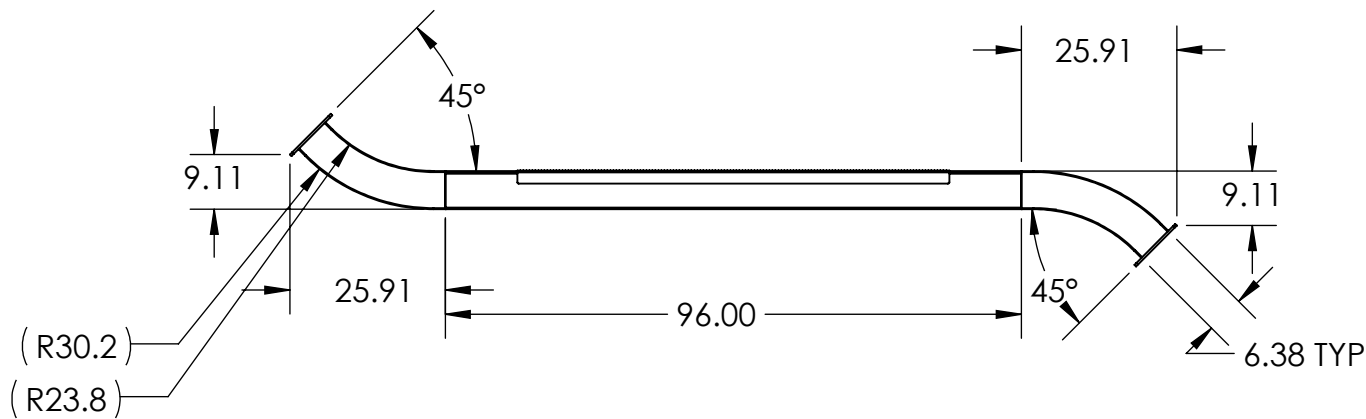
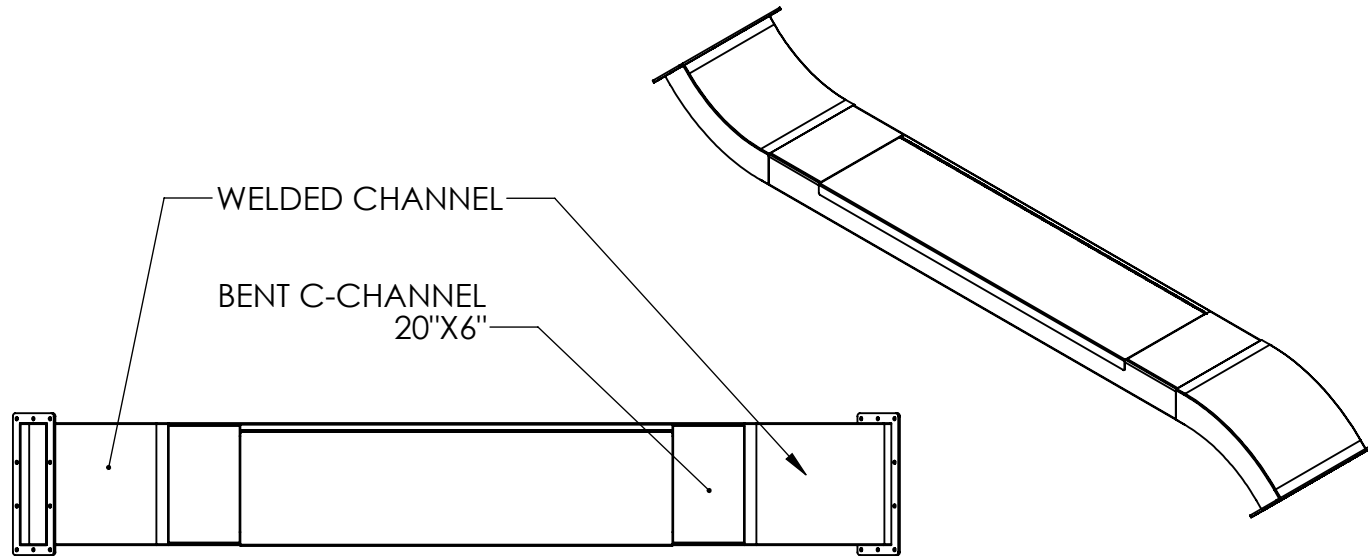
NOTES:
TYPICAL 3/16" FILLET WELD
BOTH FLANGES
GRIND FACE FLUSH
NO BURRS OR SHARP EDGES



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ 11/28/2012
		TOLERANCES:		CHECKED	
		FRACTIONAL ± 1/16		ENG APPR.	
		ANGULAR: MACH ± 0.5 BEND ± 2		MFG APPR.	
		ONE PLACE DECIMAL ± .1		Q.A.	
		TWO PLACE DECIMAL ± .06		COMMENTS:	
		THREE PLACE DECIMAL ± 0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100			
		MATERIAL			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

STOCK SIZE:		
TITLE:		
SIZE	DWG. NO.	REV
A	Expansion_01	01
SCALE: 1:50	WEIGHT:	SHEET 25 OF 35



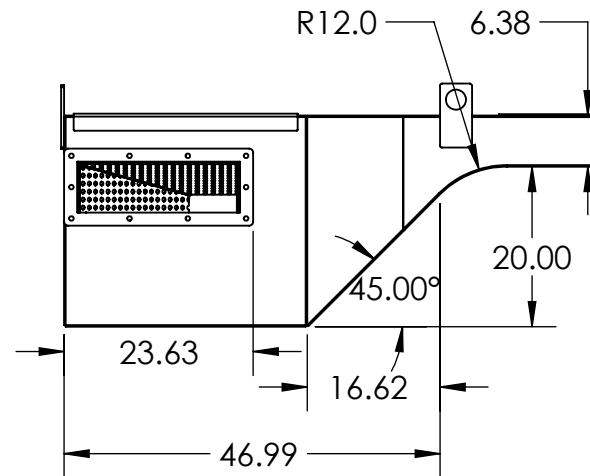
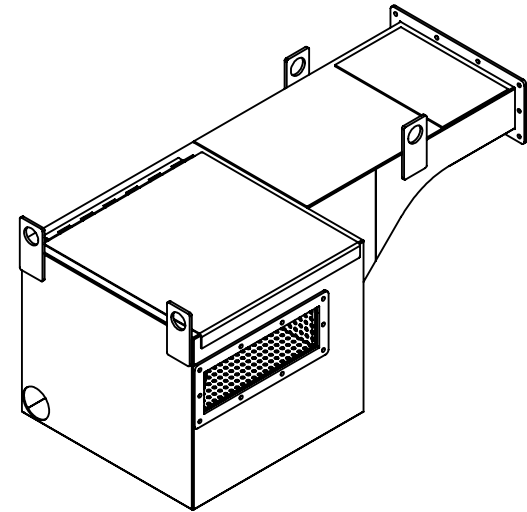
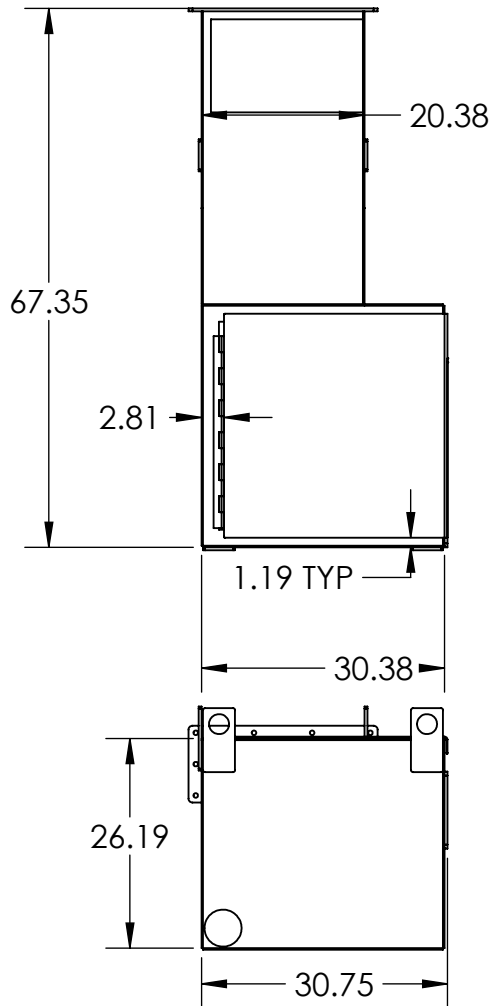
NOTES:
 TYPICAL 3/16" FILLET WELD
 BOTH FLANGES
 GRIND FACE FLUSH
 NO BURRS OR SHARP EDGES



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ
		TOLERANCES:	CHECKED	11/28/2012
		FRACTIONAL $\pm 1/16$	ENG APPR.	
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.	
		ONE PLACE DECIMAL $\pm .1$	Q.A.	
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:	
		THREE PLACE DECIMAL ± 0.030		
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100		
		MATERIAL		
NEXT ASSY	USED ON	FINISH		
APPLICATION		DO NOT SCALE DRAWING		

STOCK SIZE:		
TITLE:		
SIZE	DWG. NO.	REV
A	Transition4-2-02	01
SCALE: 1:50		WEIGHT:
		SHEET 26 OF 35



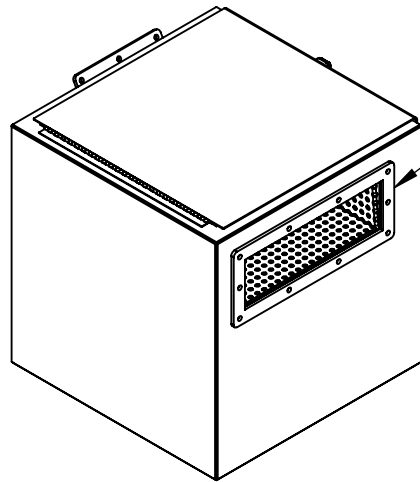
NOTES:
 TYPICAL 3/16" FILLET WELD
 BOTH FLANGES
 GRIND FACE FLUSH
 NO BURRS OR SHARP EDGES



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

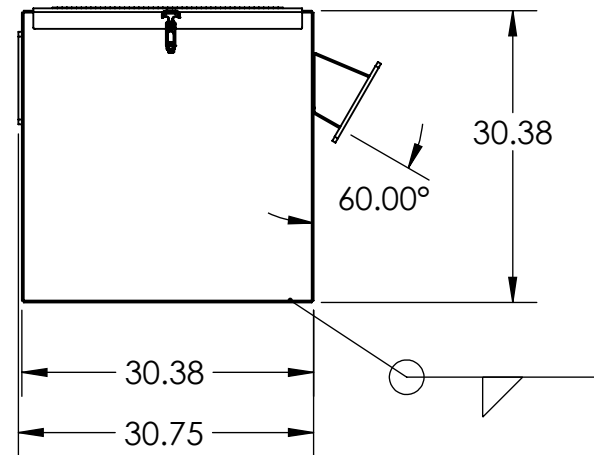
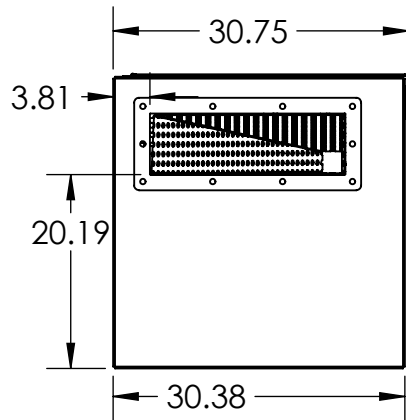
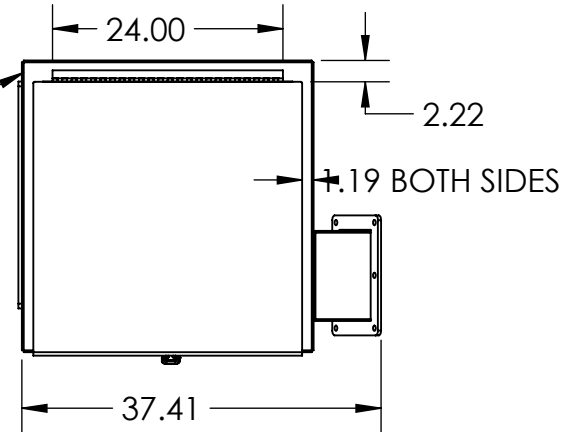
		UNLESS OTHERWISE SPECIFIED:	NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ
		TOLERANCES:	CHECKED	11/28/2012
		FRACTIONAL ± 1/16	ENG APPR.	
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.	
		ONE PLACE DECIMAL ± .1	Q.A.	
		TWO PLACE DECIMAL ± .06	COMMENTS:	
		THREE PLACE DECIMAL ± 0.030		
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100		
		MATERIAL		
		FINISH		
NEXT ASSY	USED ON			
APPLICATION		DO NOT SCALE DRAWING		

STOCK SIZE:		
TITLE: REST BOX #4		
SIZE	DWG. NO.	REV
A	Sheetmetal_Rest_Box_004	01
SCALE: 1:24	WEIGHT:	SHEET 27 OF 35



See Flange_005 Detail

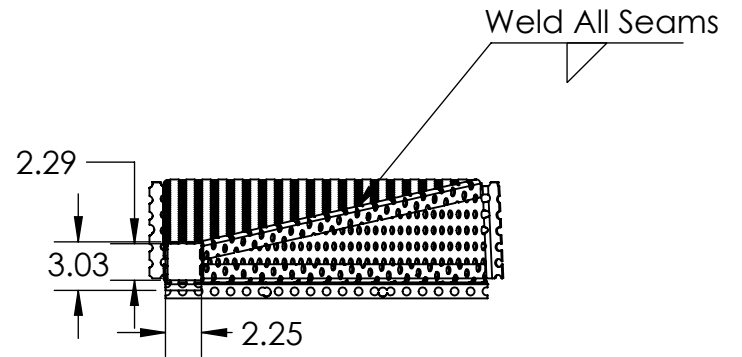
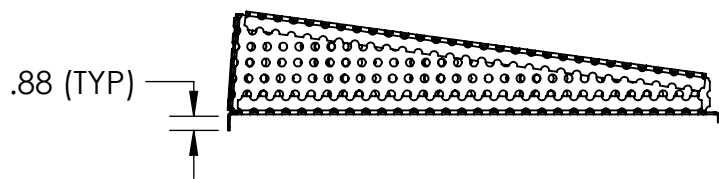
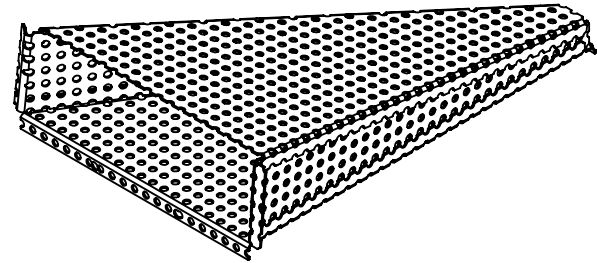
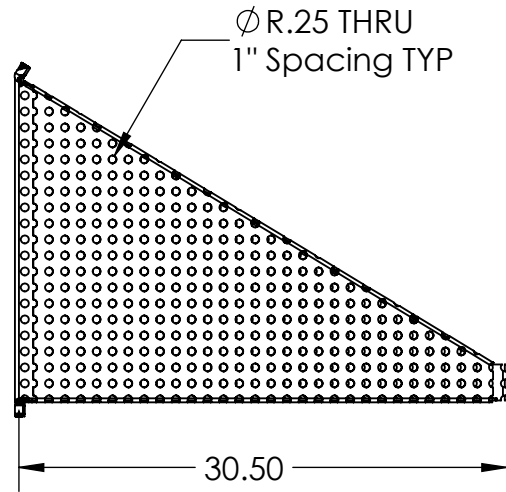
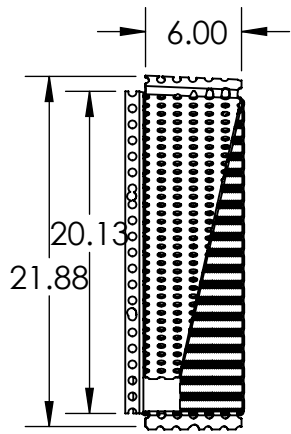
All Sides



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	JCS
		TOLERANCES:	CHECKED	11/28/2012
		FRACTIONAL ± 1/16	ENG APPR.	
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.	
		ONE PLACE DECIMAL ± .1	Q.A.	
		TWO PLACE DECIMAL ± .06	COMMENTS:	
		THREE PLACE DECIMAL ± 0.030		
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100		
		MATERIAL		
NEXT ASSY	USED ON	FINISH		
APPLICATION		DO NOT SCALE DRAWING		

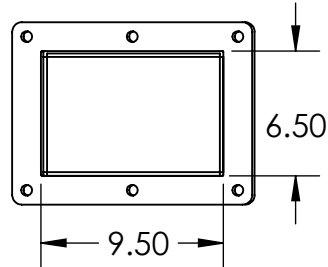
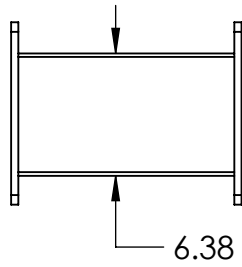
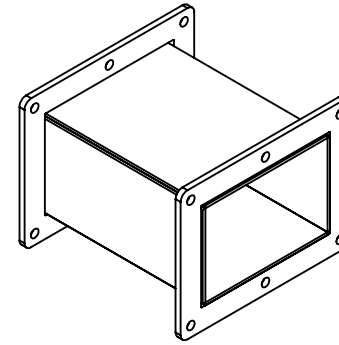
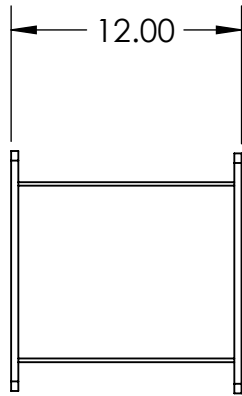
STOCK SIZE:		
TITLE: UPWELLING BOX		
SIZE A	DWG. NO. Upwelling_Box	REV 01
SCALE: 1:20	WEIGHT:	SHEET 28 OF 35



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	JCS 11/28/2012
		TOLERANCES:	CHECKED	
		FRACTIONAL ± 1/16	ENG APPR.	
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.	
		ONE PLACE DECIMAL ± .1	Q.A.	
		TWO PLACE DECIMAL ± .06	COMMENTS:	
		THREE PLACE DECIMAL ± 0.030		
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100		
		MATERIAL		
		5052-H32		
		FINISH		
NEXT ASSY	USED ON			
APPLICATION		DO NOT SCALE DRAWING		

STOCK SIZE:		
1/8"		
TITLE:		
SIZE	DWG. NO.	REV
A	UPWELLING_002	01
SCALE: 1:12	WEIGHT:	SHEET 29 OF 35



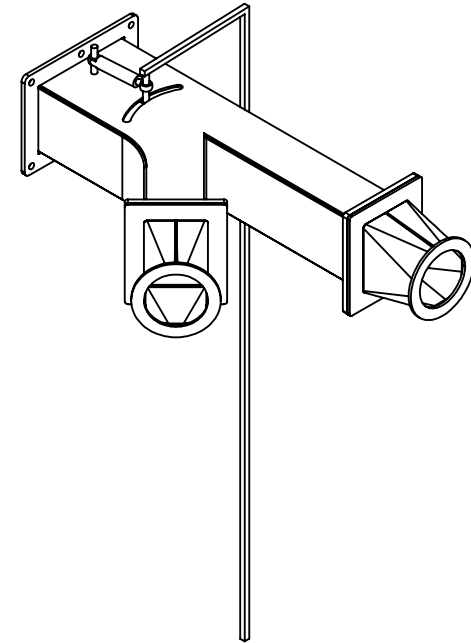
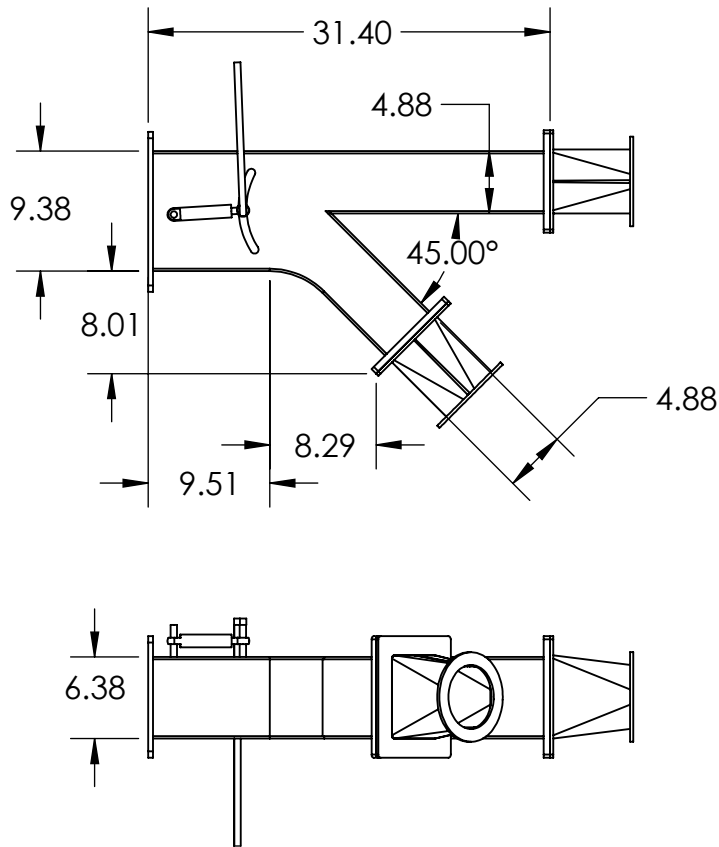
NOTES:
 TYPICAL 3/16" FILLET WELD
 BOTH FLANGES
 GRIND FACE FLUSH
 NO BURRS OR SHARP EDGES



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ
		TOLERANCES:	CHECKED	11/28/2012
		FRACTIONAL $\pm 1/16$	ENG APPR.	
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.	
		ONE PLACE DECIMAL $\pm .1$	Q.A.	
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:	
		THREE PLACE DECIMAL ± 0.030		
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100		
		MATERIAL		
NEXT ASSY	USED ON	FINISH		
APPLICATION		DO NOT SCALE DRAWING		

STOCK SIZE:		
TITLE:		
SIZE	DWG. NO.	REV
A	Tran_Exit	01
SCALE: 1:10	WEIGHT:	SHEET 30 OF 35



NOT FINALIZED
 PROPOSED Y-GATE
 MECHANISM TO BE DESIGNED AND BUILT BY U OF I
 SHEETMETAL DUCTWORK TO BE BUILT BY YANKE

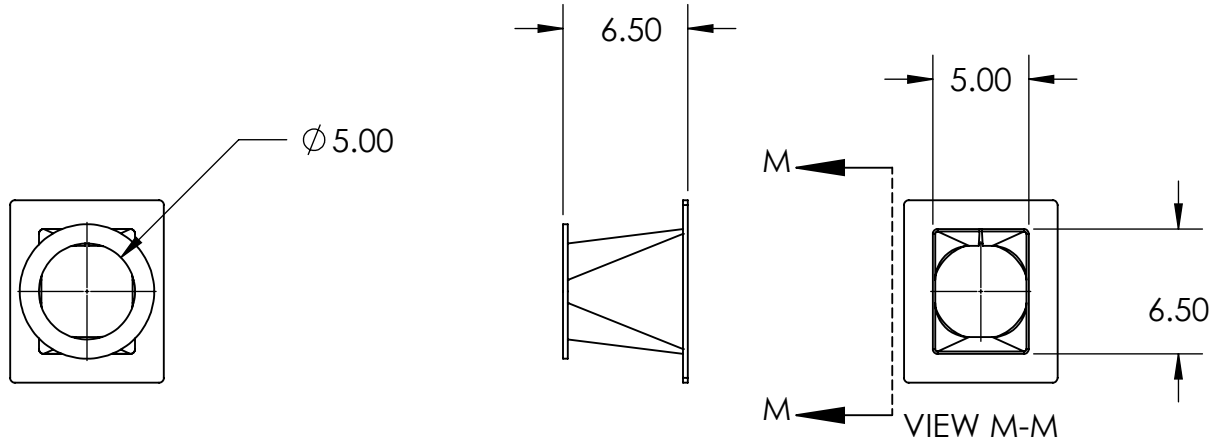
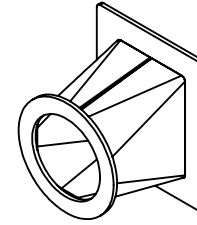


PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012	TITLE:
		TOLERANCES:		CHECKED			
		FRACTIONAL ± 1/16		ENG APPR.			
		ANGULAR: MACH ±0.5 BEND ±2		MFG APPR.			
		ONE PLACE DECIMAL ±.1		Q.A.			
		TWO PLACE DECIMAL ±.06		COMMENTS:			SIZE
		THREE PLACE DECIMAL ±0.030					DWG. NO.
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					Tran_Exit_Ygate
		MATERIAL					REV
		FINISH					01
NEXT ASSY	USED ON						
APPLICATION		DO NOT SCALE DRAWING					

PROPOSED TRANSITION
FORMED OUT OF ALUMINUM
SQUARE TO ROUND

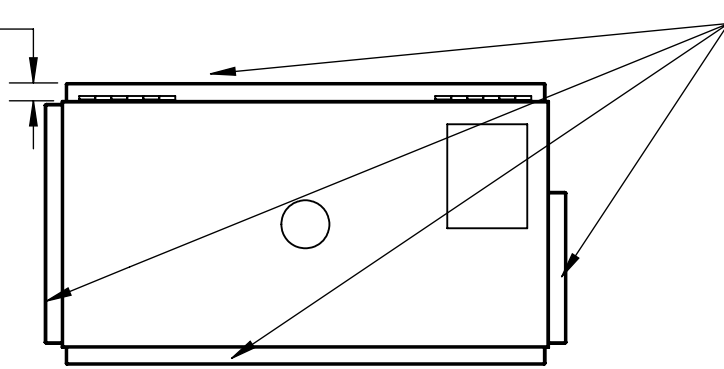
NOT FINALIZED



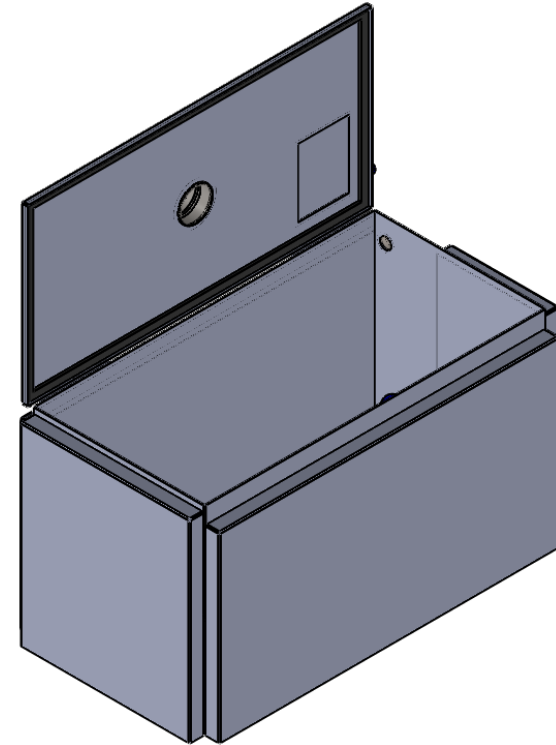
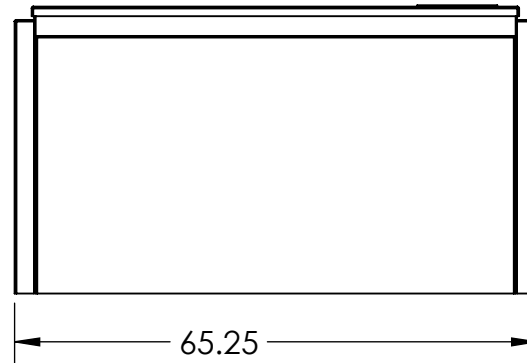
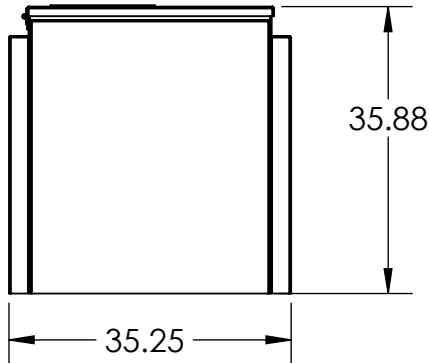
PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:	
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012	
		TOLERANCES:		CHECKED			TITLE:
		FRACTIONAL $\pm 1/16$		ENG APPR.			
		ANGULAR: MACH ± 0.5 BEND ± 2		MFG APPR.			
		ONE PLACE DECIMAL $\pm .1$		Q.A.			
		TWO PLACE DECIMAL $\pm .06$		COMMENTS:			
		THREE PLACE DECIMAL ± 0.030					
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100					
		MATERIAL					
NEXT ASSY		USED ON					SIZE DWG. NO. REV
							A Flange_07 01
APPLICATION		DO NOT SCALE DRAWING					SCALE: 1:10 WEIGHT: SHEET 32 OF 35

2.25 TYP



BENT SHEETMETAL
50-52 ALUMINUM
DESIGNED TO BE AN INSULATED
WATER TANK

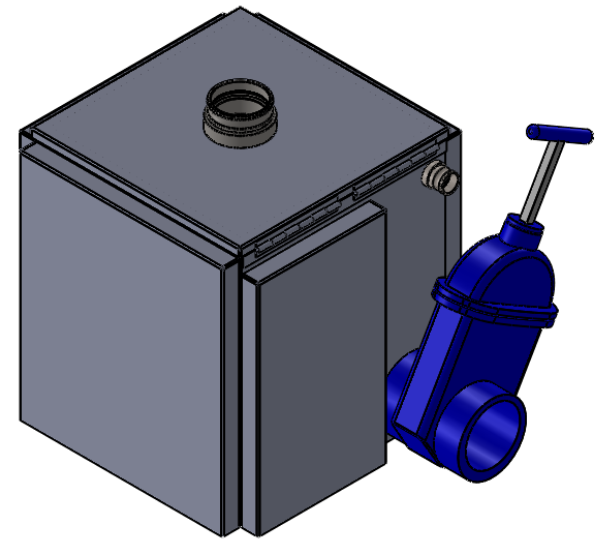
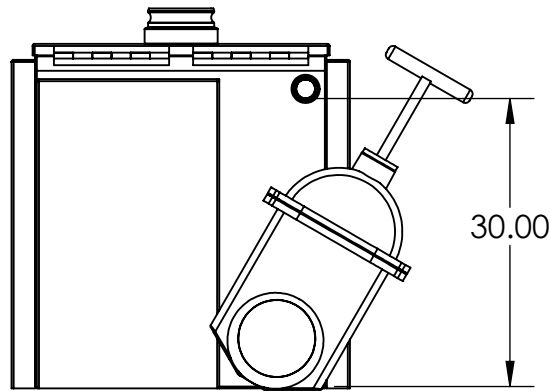
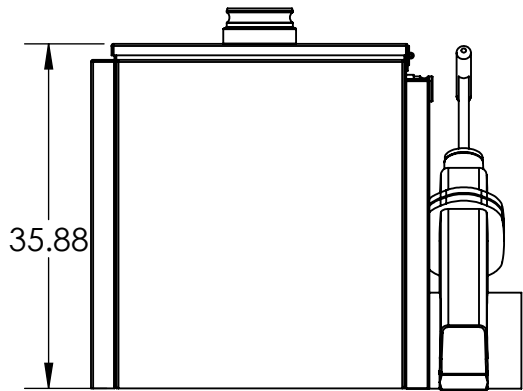
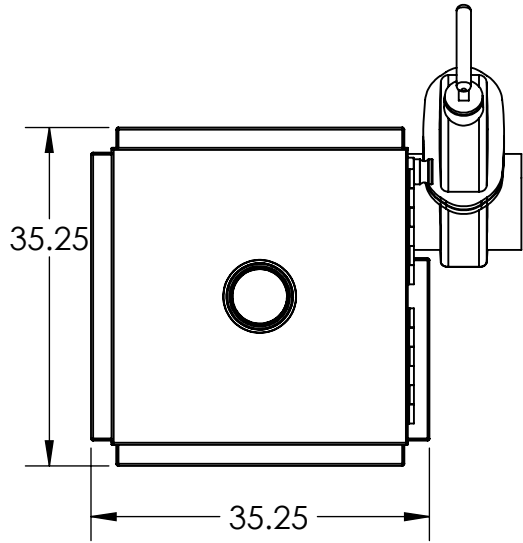


PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012
		TOLERANCES:	CHECKED		
		FRACTIONAL ± 1/16	ENG APPR.		
		ANGULAR: MACH ±0.5 BEND ±2	MFG APPR.		
		ONE PLACE DECIMAL ±.1	Q.A.		
		TWO PLACE DECIMAL ±.06	COMMENTS:		
		THREE PLACE DECIMAL ±0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100			
		MATERIAL			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

TITLE:		
SIZE	DWG. NO.	REV
A	60x30x30_storage tank	01
SCALE: 1:16	WEIGHT:	SHEET 33 OF 35

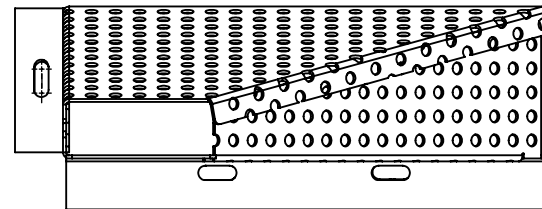
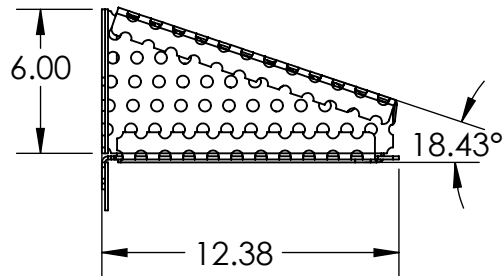
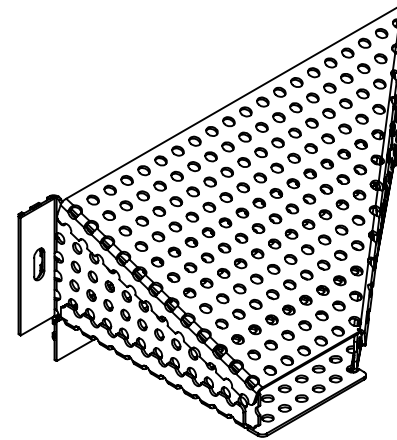
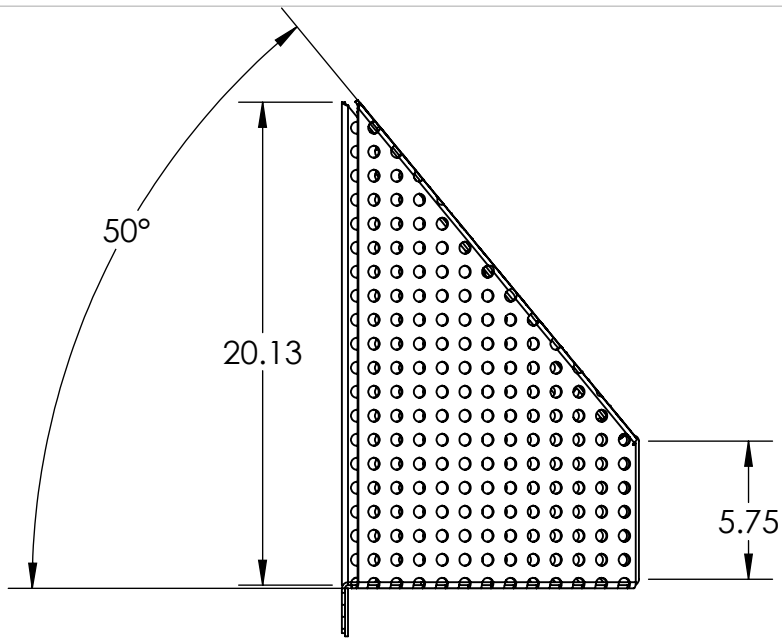
NOT FINALIZED
 ALL PLUMBING TO BE PURCHASED AND
 INSTALLED BY U OF I



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE:
		DIMENSIONS ARE IN INCHES		DRAWN	HRZ	11/28/2012
		TOLERANCES:		CHECKED		TITLE:
		FRACTIONAL ± 1/16		ENG APPR.		
		ANGULAR: MACH ±0.5 BEND ±2		MFG APPR.		
		ONE PLACE DECIMAL ±.1		Q.A.		
		TWO PLACE DECIMAL ±.06		COMMENTS:		
		THREE PLACE DECIMAL ±0.030				
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100				
		MATERIAL				
NEXT ASSY	USED ON	FINISH				SIZE DWG. NO. REV
APPLICATION		DO NOT SCALE DRAWING				A 30x30x30_storage tank 01

SCALE: 1:16	WEIGHT:	SHEET 34 OF 35
-------------	---------	----------------



WELDED IF POSSIBLE
 NOT FINALIZED
 ALUMINUM PERF 5/16"



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	HRZ	11/28/2012
		TOLERANCES:	CHECKED		
		FRACTIONAL ± 1/16	ENG APPR.		
		ANGULAR: MACH ±0.5 BEND ±2	MFG APPR.		
		ONE PLACE DECIMAL ±.1	Q.A.		
		TWO PLACE DECIMAL ±.06	COMMENTS:		
		THREE PLACE DECIMAL ±0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100			
		MATERIAL			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

STOCK SIZE:		
TITLE:		
SIZE	DWG. NO.	REV
A	Fyke-003	01
SCALE: 1:12	WEIGHT:	SHEET 35 OF 35

John Day Dam Lamprey Passage System 2013 As-Built Drawings



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF THE UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	
		DIMENSIONS ARE IN INCHES	DRAWN	JCS		
		TOLERANCES:	CHECKED			TITLE:
		FRACTIONAL ±	ENG APPR.			Title
		ANGULAR: MACH ± BEND ±	MFG APPR.			
		TWO PLACE DECIMAL ±	Q.A.			
		THREE PLACE DECIMAL ±	COMMENTS:			
		INTERPRET GEOMETRIC TOLERANCING PER:				SIZE
		MATERIAL				B
		FINISH				DWG. NO.
NEXT ASSY	USED ON					John Day Dam Assembly
		APPLICATION				REV
		DO NOT SCALE DRAWING				
						WEIGHT:
						SHEET 1 OF 23

STRUCTURAL NOTES

DESIGN CRITERIA:

1. Design Codes:
 - A. 2009 International Building Code
 - B. ASCE Standard ASCE/SEI 7-05
2. Design Loads:
 - A. D.L. = Component Weight + Water
3. Wind load = 90 MPH, exposure C, Iw = 1.0
4. Seismic: IBC Table 15.4.2
Elevated Tank on Symetrically Braced Legs: 15.7.10
R = 3.0 SDS = 0.542
S1 = 0.228 Cs = .03

MATERIALS:

ALUMINUM: Per Specification for Aluminum Structures

1. Aluminum Sheet Materials: 5052-H32 (welded)
 - A. Ftu = 25 KSI
 - B. E = 10,200 KSI
 - C. Fty = 9.5 KSI
 - D. Fcy = 9.5 KSI
2. Aluminum Shapes Materials: 6061-T6 (welded)
Channels, Angles and Square Tubes
 - A. Ftu = 24 KSI
 - B. E = 10,100 KSI
 - C. Fty = 15 KSI
 - D. Fcy = 15 KSI
3. Welding shall be accordance with AWS A5.10 /M5.10 specifications:
 - A. Welding Filler Material: 4043

STAINLESS STEEL: Per AISI Specification

1. All Stainless Steel Componets: AISI 304
2. Welding shall be accordance with AWS A5.22 / M5.22 specifications:
3. Component Bolts: SS - 304; ASTM A193, grade 8, meeting provisions of ANSI/ASME B18.2.1 dimensional requirements.
4. Bolts to Concrete: Hilti "Kwik Bolt -TZ" -SS 304 (or equivalent)
5. Provide neoprene washers to isolate Stainless Steel bolt heads and nuts from bearing at aluminum surfaces.

BAR GRATING: Aluminum or Stainless Steel

1. 1" x 1/8" GW

CORROSION PROTECTION

1. Provide Bitumen coating for all Aluminum surfaces in contact with concrete or stainless steel surfaces. Bitumen shall be shop applied. Protect all Bitumen coatings during shipping.

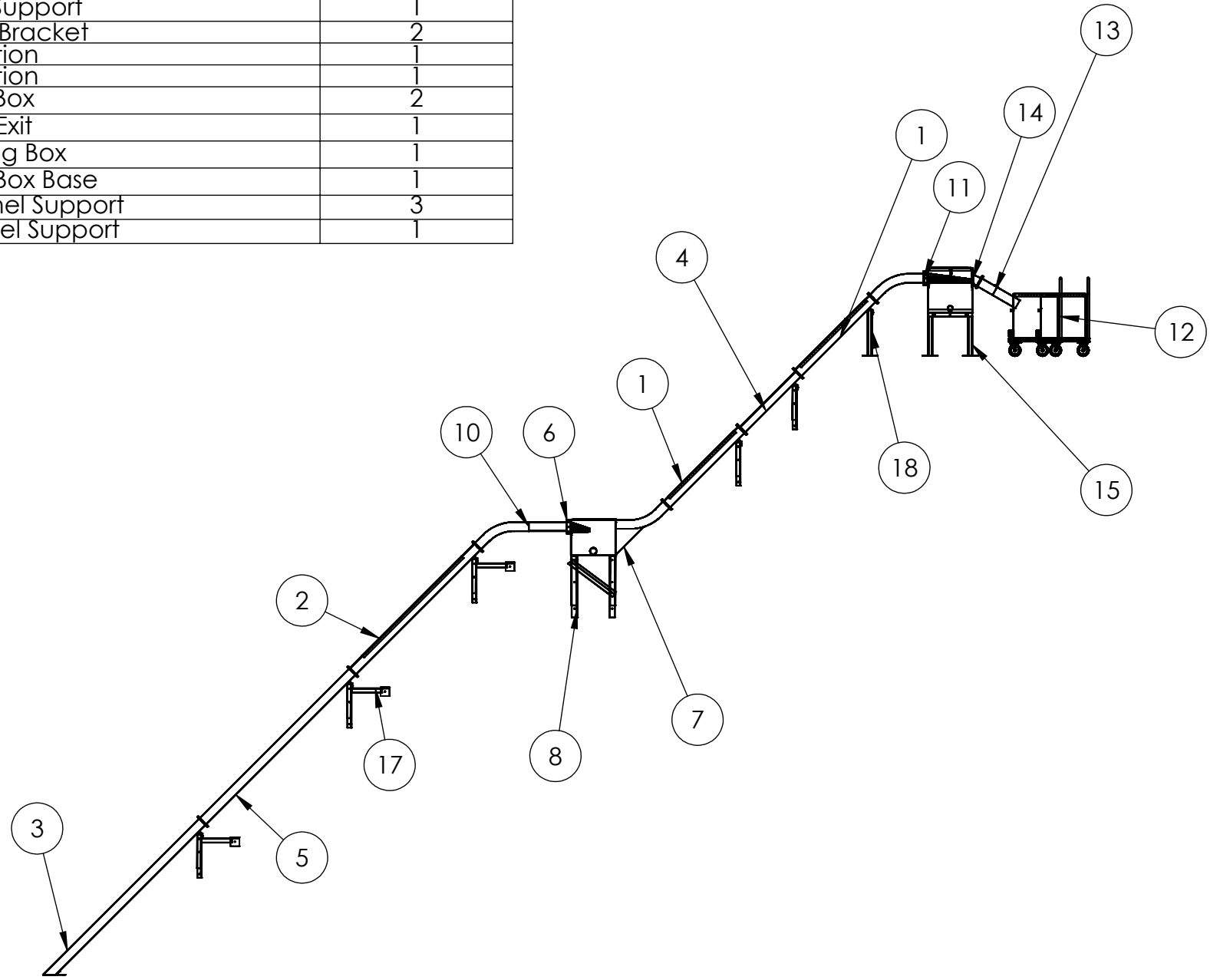


PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF THE UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: <h2 style="margin: 0;">General Notes</h2>				
		DIMENSIONS ARE IN INCHES	DRAWN	JCS				SIZE B	DWG. NO. John Day Dam Assembly	REV
		TOLERANCES:	CHECKED							
		FRACTIONAL ±	ENG APPR.							
		ANGULAR: MACH ± BEND ±	MFG APPR.							
		TWO PLACE DECIMAL ±	Q.A.			WEIGHT:		SHEET 2 OF 23		
		THREE PLACE DECIMAL ±	COMMENTS:							
		INTERPRET GEOMETRIC TOLERANCING PER:								
		MATERIAL								
		FINISH								
NEXT ASSY	USED ON									
APPLICATION		DO NOT SCALE DRAWING								

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Channel 8x20 6ft	6' Channel	2
2	Channel 8x20 10ft	10' Channel	1
3	Channel_8x20_Entry	12' Open Chnl 1 Fl	1
4	Channel_5.1875x20_7ft under girder	Climbing Duct, Under Girder	1
5	Channel_8x20_12ft open	Climbing Duct, 12' Open	1
6	PIT Antenna	PIT Antenna	2
7	Sheetmetal Rest Box	Rest Box	1
8	Str_brac_03-1	Rest Box Support	1
9	strbracket	Structural Bracket	2
10	RB Tran	Transition	1
11	UPWTran	Transition	1
12	Trap_Box	Trap Box	2
13	TrapDrop	Trap Exit	1
14	Upwelling_Box	Upwelling Box	1
15	STRUCT_UPWELLING_BASE	Upwelling Box Base	1
17	Str_brac_02	Lower Channel Support	3
18	CHANNEL SUPPORT	Deck Channel Support	1

D
C
B
A



D
C
B
A



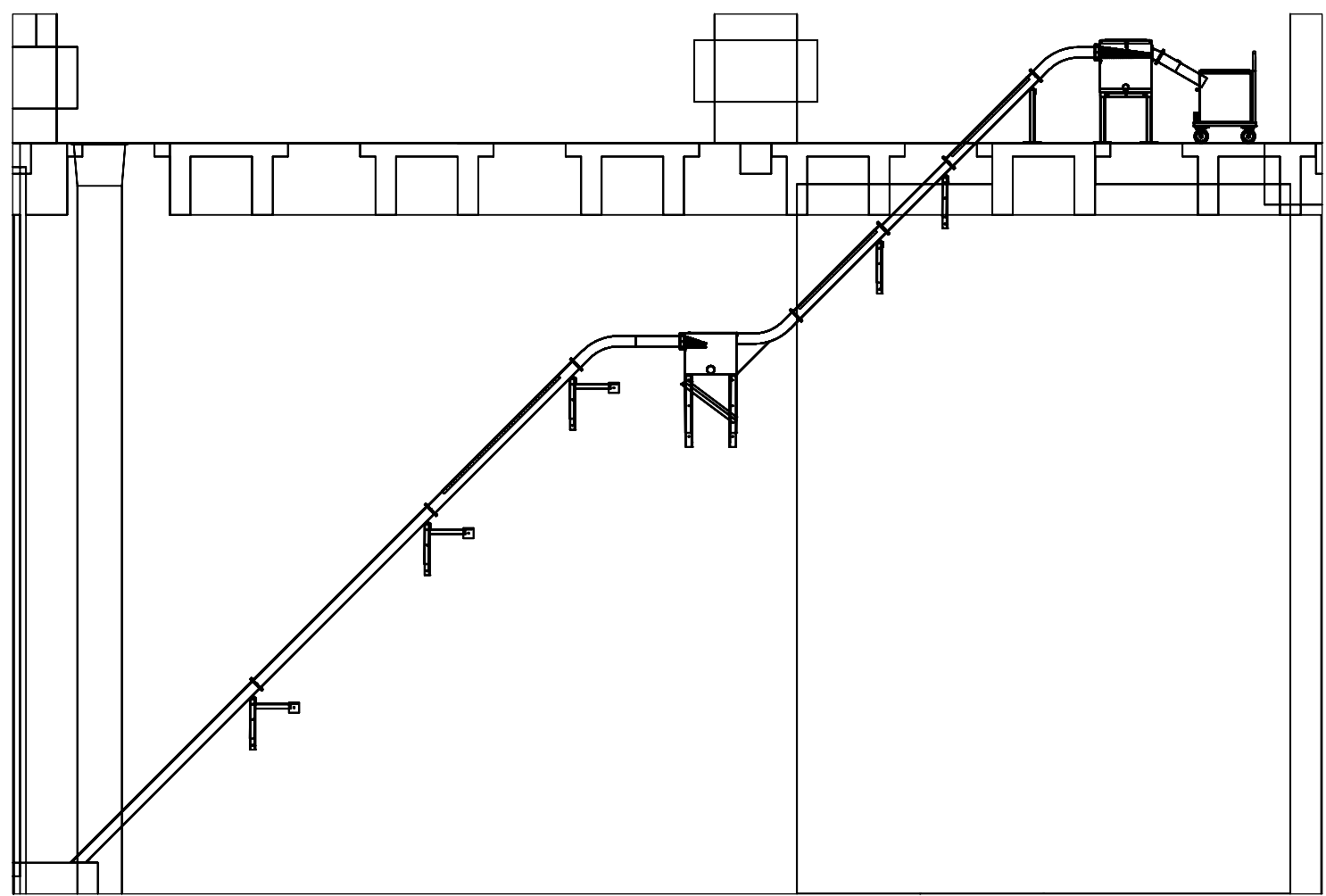
PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF THE UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	TITLE: Assembly
		DIMENSIONS ARE IN INCHES	DRAWN	JCS	
		TOLERANCES:	CHECKED		
		FRACTIONAL ±	ENG APPR.		
		ANGULAR: MACH ± BEND ±	MFG APPR.		
		TWO PLACE DECIMAL ±	Q.A.		SIZE B
		THREE PLACE DECIMAL ±	COMMENTS:		
		INTERPRET GEOMETRIC TOLERANCING PER:			REV
		MATERIAL			SCALE: 1:100
NEXT ASSY	USED ON	FINISH			WEIGHT:
APPLICATION		DO NOT SCALE DRAWING			SHEET 3 OF 23

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

D
C
B
A



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF THE UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	JCS	
		TOLERANCES:	CHECKED		
		FRACTIONAL ±	ENG APPR.		
		ANGULAR: MACH ± BEND ±	MFG APPR.		
		TWO PLACE DECIMAL ±	Q.A.		
		THREE PLACE DECIMAL ±	COMMENTS:		
		INTERPRET GEOMETRIC TOLERANCING PER:			
		MATERIAL			
		FINISH			
NEXT ASSY	USED ON				
APPLICATION		DO NOT SCALE DRAWING			

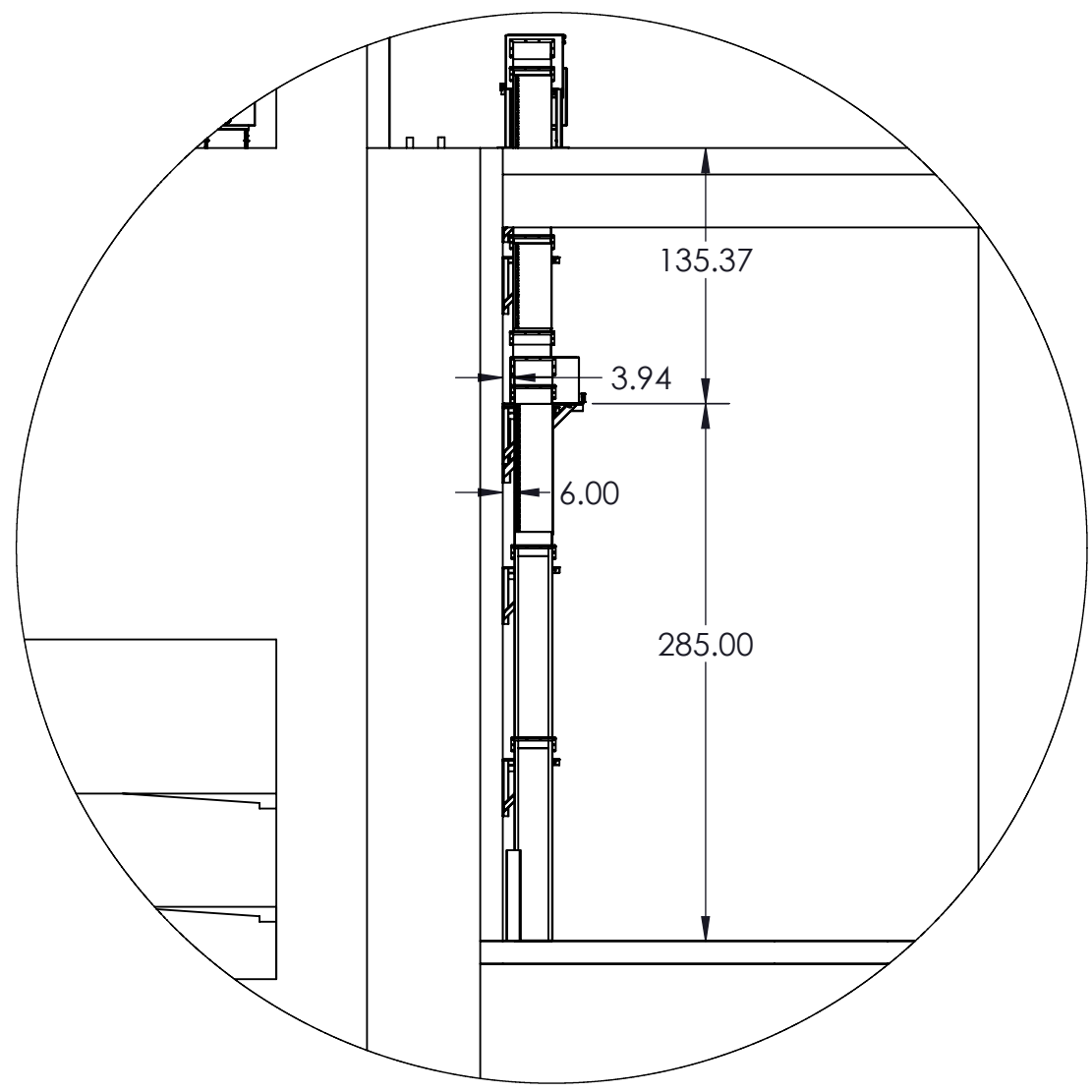
TITLE:		
Profile		
SIZE	DWG. NO.	REV
B	John Day Dam Assembly	
SCALE: 1:100		WEIGHT:
		SHEET 4 OF 23

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

D
C
B
A

D
C
B
A



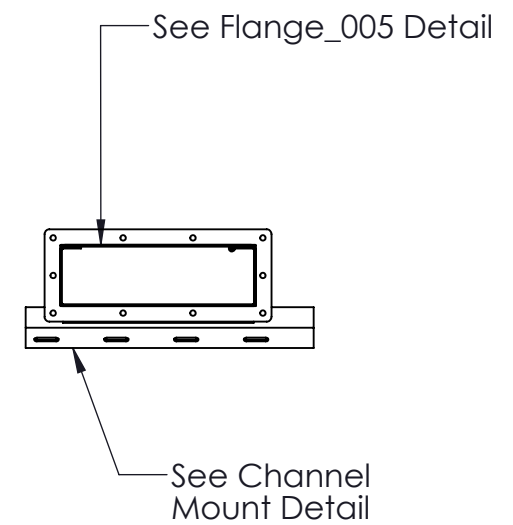
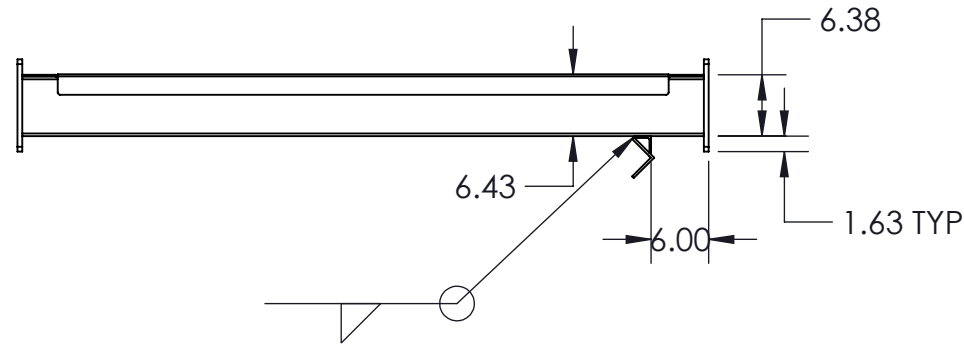
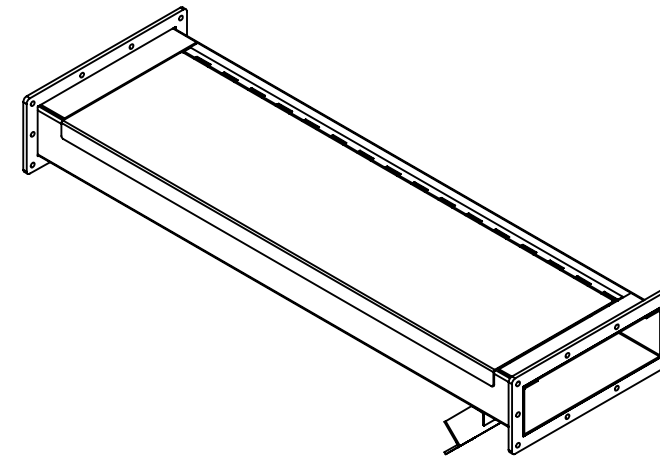
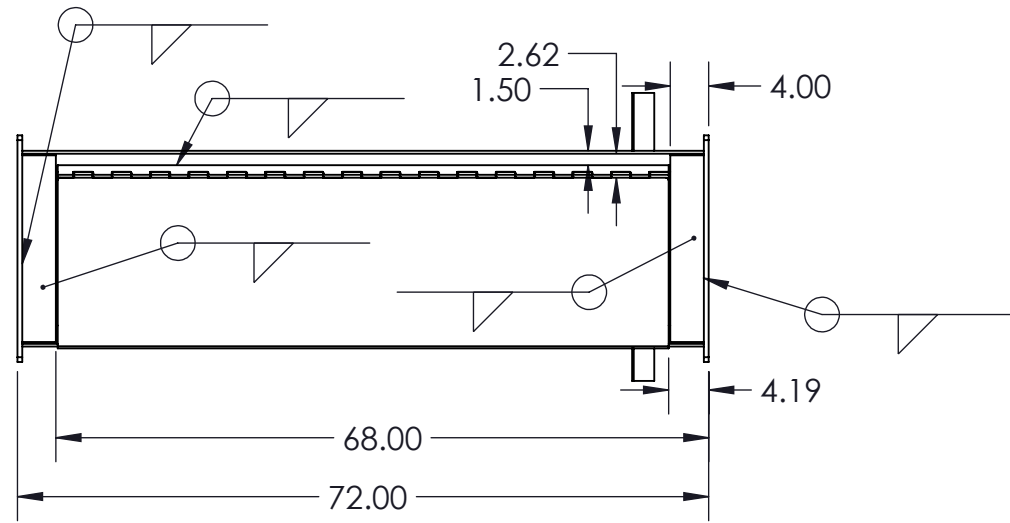
PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF THE UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:
		DIMENSIONS ARE IN INCHES
		TOLERANCES:
		FRACTIONAL ±
		ANGULAR: MACH ± BEND ±
		TWO PLACE DECIMAL ±
		THREE PLACE DECIMAL ±
		INTERPRET GEOMETRIC TOLERANCING PER:
		MATERIAL
		FINISH
NEXT ASSY	USED ON	
APPLICATION		DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	JCS	
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

TITLE: Section		
SIZE B	DWG. NO. John Day Dam Assembly	REV
SCALE: 1:100		WEIGHT:
		SHEET 5 OF 23

8 7 6 5 4 3 2 1



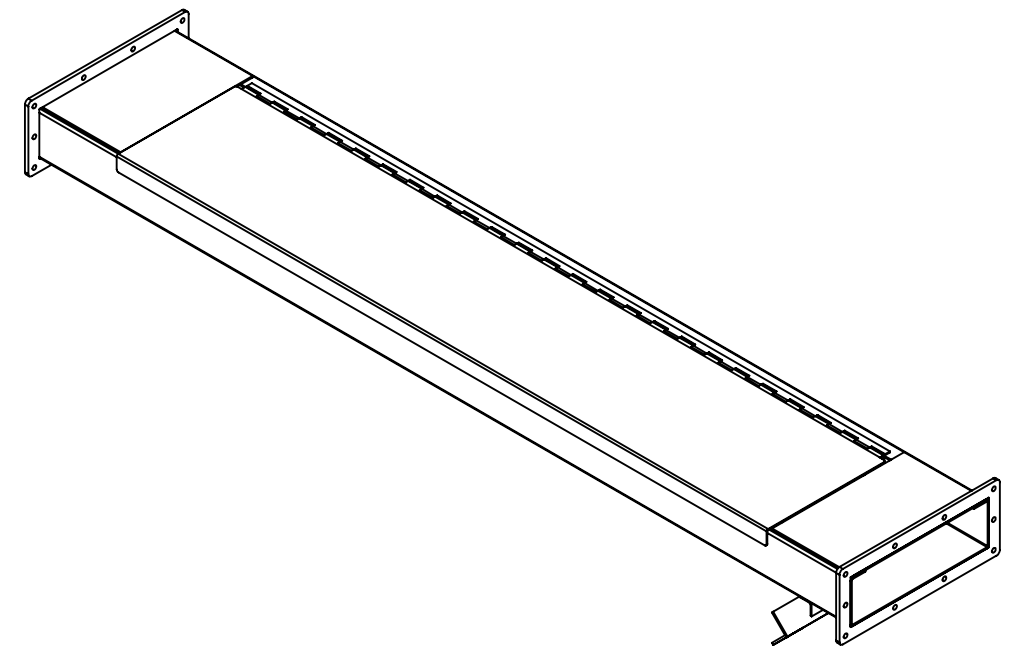
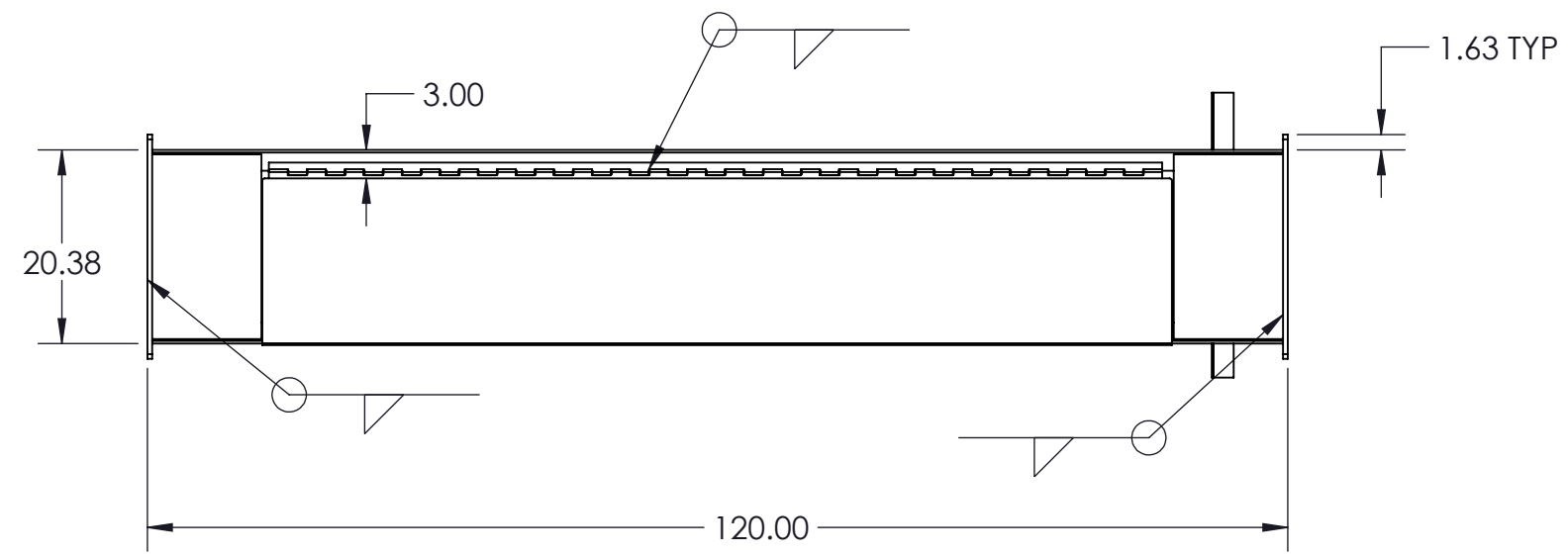
PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF THE UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE		
		DIMENSIONS ARE IN INCHES		DRAWN	JCS		
		TOLERANCES:		CHECKED		TITLE:	
		FRACTIONAL ±		ENG APPR.		6' Channel	
		ANGULAR: MACH ± BEND ±		MFG APPR.			
		TWO PLACE DECIMAL ±		Q.A.			
		THREE PLACE DECIMAL ±		COMMENTS:			
		INTERPRET GEOMETRIC TOLERANCING PER:					
		MATERIAL					
NEXT ASSY	USED ON	FINISH					
APPLICATION		DO NOT SCALE DRAWING					
				SIZE	DWG. NO.	REV	
				B	John Day Dam Assembly		
				SCALE: 1:20		WEIGHT:	SHEET 6 OF 23

8 7 6 5 4 3 2 1

D

D

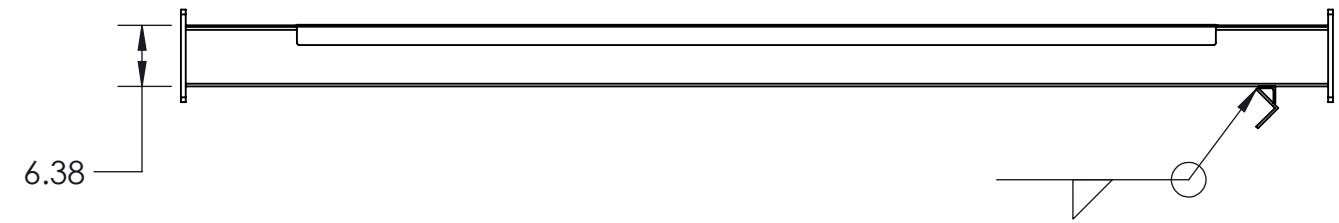


C

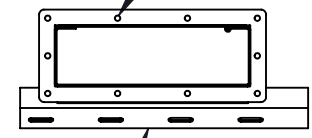
C

B

B



See Flange_007 Detail



See Channel Mount Detail

A

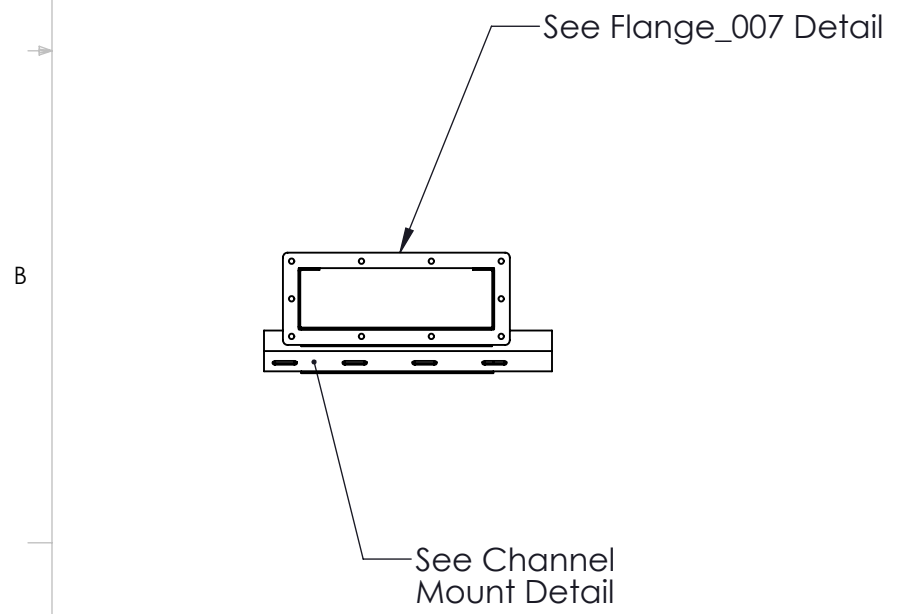
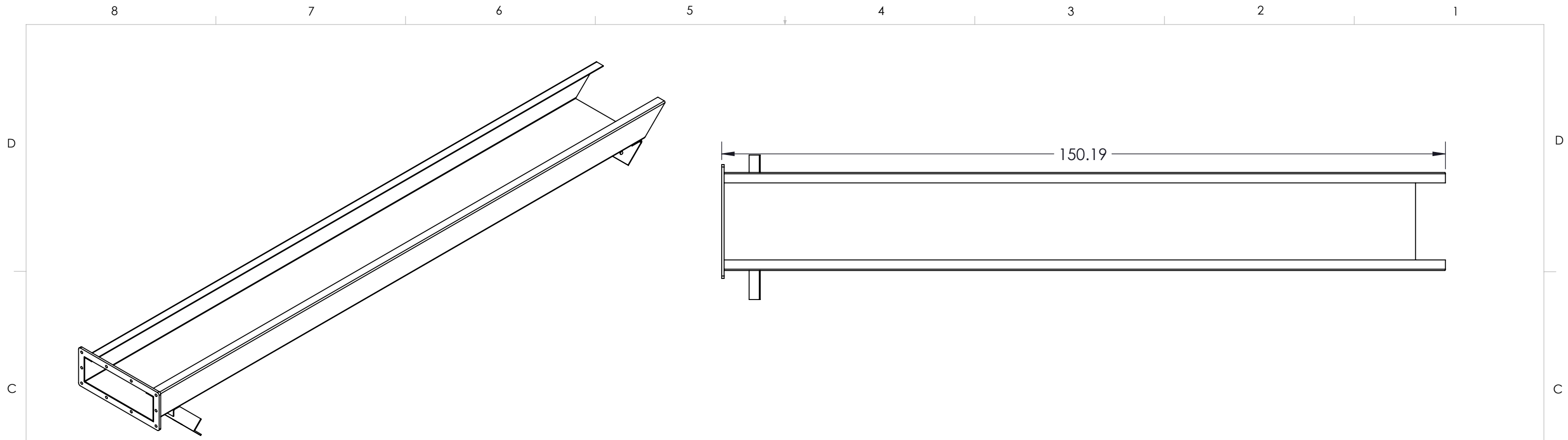
A



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF THE UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES		DRAWN	JCS
		TOLERANCES:		CHECKED	
		FRACTIONAL ±		ENG APPR.	
		ANGULAR: MACH ± BEND ±		MFG APPR.	
		TWO PLACE DECIMAL ±		Q.A.	
		THREE PLACE DECIMAL ±		COMMENTS:	
		INTERPRET GEOMETRIC TOLERANCING PER:			
		MATERIAL			
		FINISH			
NEXT ASSY	USED ON				
APPLICATION		DO NOT SCALE DRAWING			
TITLE: 10' Channel					
SIZE	DWG. NO.	REV			
B	John Day Dam Assembly				
SCALE: 1:20			WEIGHT:		SHEET 7 OF 23

8 7 6 5 4 3 2 1

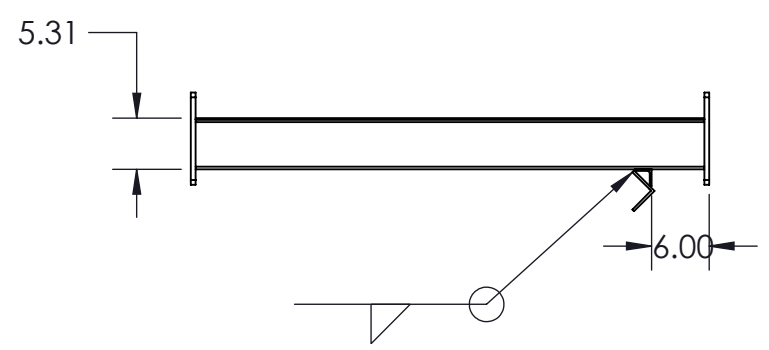
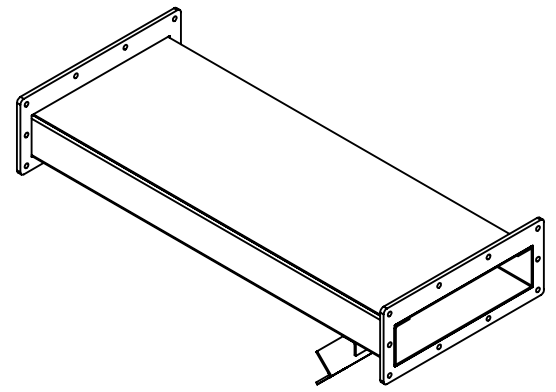
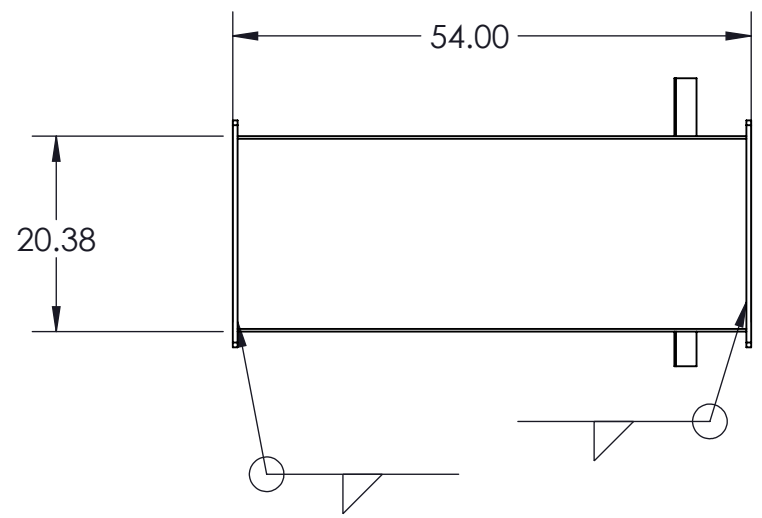


PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF THE UNIVERSITY OF IDAHO IS PROHIBITED.

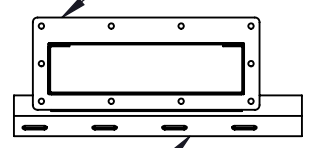
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES		DRAWN	JCS
		TOLERANCES:		CHECKED	
		FRACTIONAL ±		ENG APPR.	
		ANGULAR: MACH ± BEND ±		MFG APPR.	
		TWO PLACE DECIMAL ±		Q.A.	
		THREE PLACE DECIMAL ±		COMMENTS:	
		INTERPRET GEOMETRIC TOLERANCING PER:			
		MATERIAL			
		FINISH			
NEXT ASSY	USED ON				
APPLICATION		DO NOT SCALE DRAWING			
TITLE:			12' Open Chnl 1 Fl		
SIZE	DWG. NO.	REV			
B	John Day Dam Assembly				
SCALE: 1:20		WEIGHT:		SHEET 8 OF 23	

8 7 6 5 4 3 2 1

D
C
B
A



See Flange_005 Detail



See Channel Mount Detail



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF THE UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	JCS	
		TOLERANCES:	CHECKED		
		FRACTIONAL ±	ENG APPR.		
		ANGULAR: MACH ± BEND ±	MFG APPR.		
		TWO PLACE DECIMAL ±	Q.A.		
		THREE PLACE DECIMAL ±	COMMENTS:		
		INTERPRET GEOMETRIC TOLERANCING PER:			
		MATERIAL			
		FINISH			
NEXT ASSY	USED ON				
APPLICATION		DO NOT SCALE DRAWING			

TITLE:
Climbing Duct, Under Girder

SIZE B	DWG. NO. John Day Dam Assembly	REV
------------------	-----------------------------------	-----

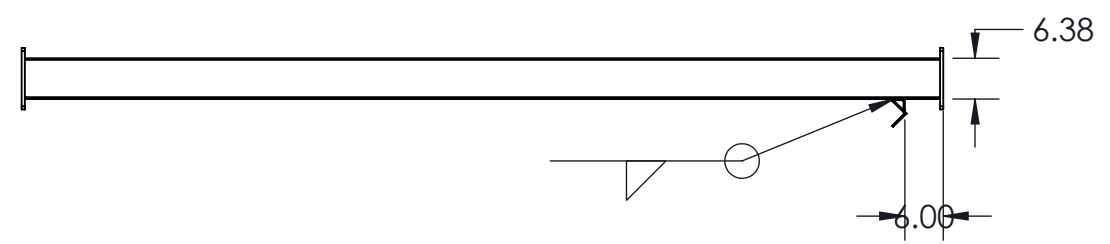
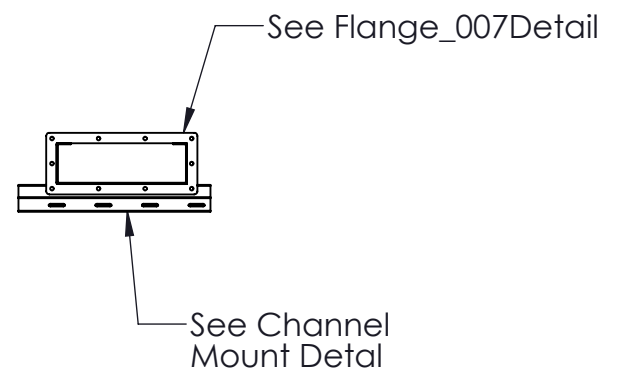
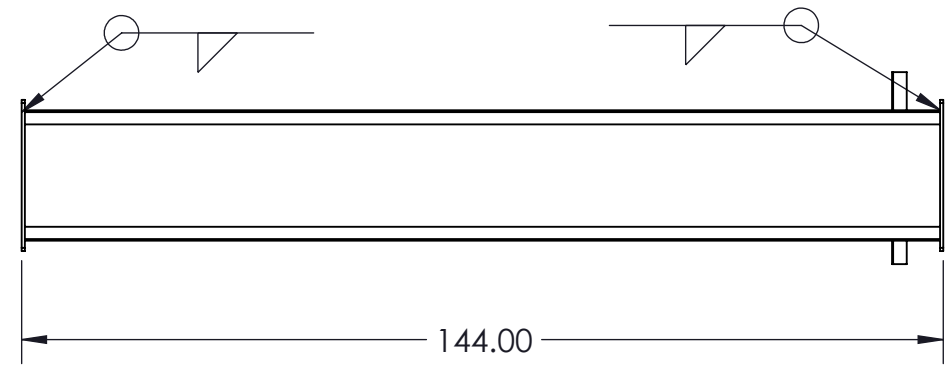
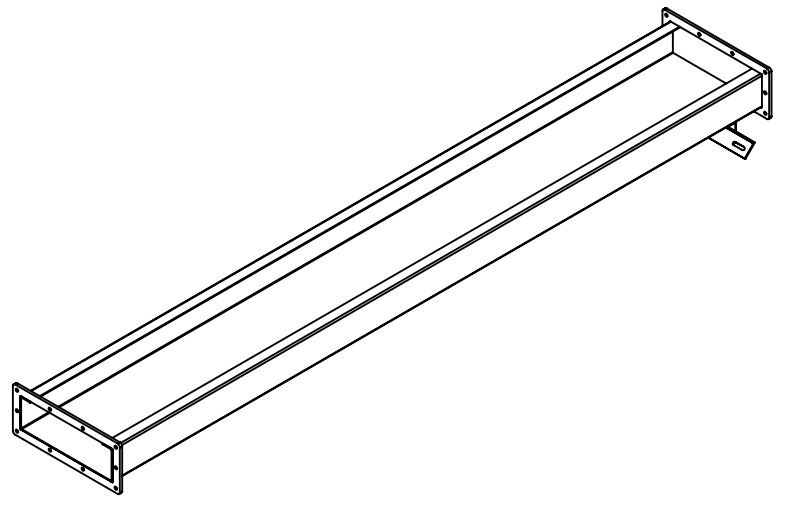
SCALE: 1:20 WEIGHT: SHEET 9 OF 23

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

D
C
B
A

D
C
B
A



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF THE UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	JCS	
		TOLERANCES:	CHECKED		
		FRACTIONAL ±	ENG APPR.		
		ANGULAR: MACH ± BEND ±	MFG APPR.		
		TWO PLACE DECIMAL ±	Q.A.		
		THREE PLACE DECIMAL ±	COMMENTS:		
		INTERPRET GEOMETRIC TOLERANCING PER:			
		MATERIAL			
		FINISH			
NEXT ASSY	USED ON				
APPLICATION		DO NOT SCALE DRAWING			

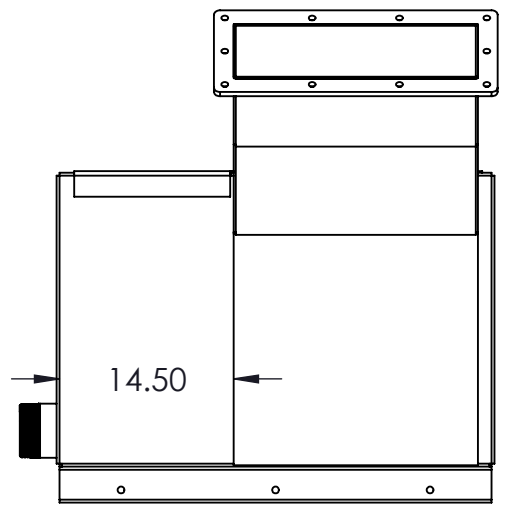
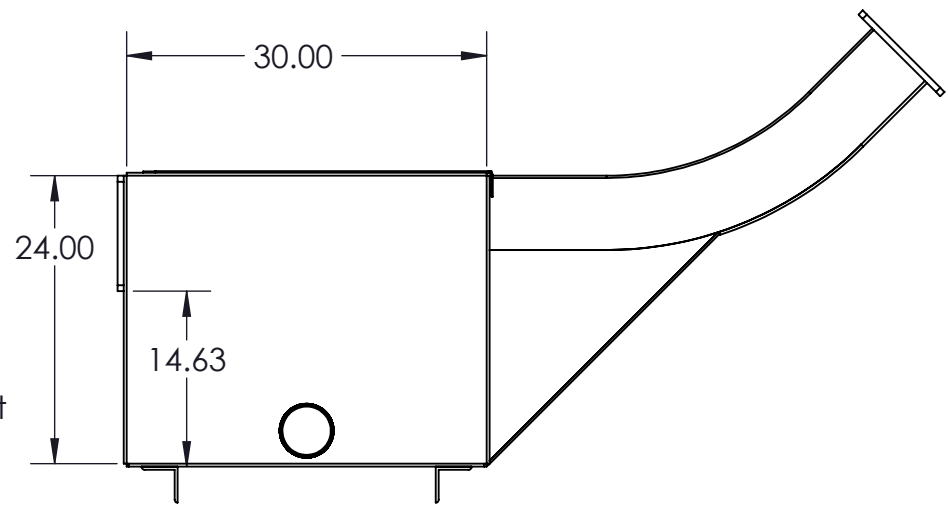
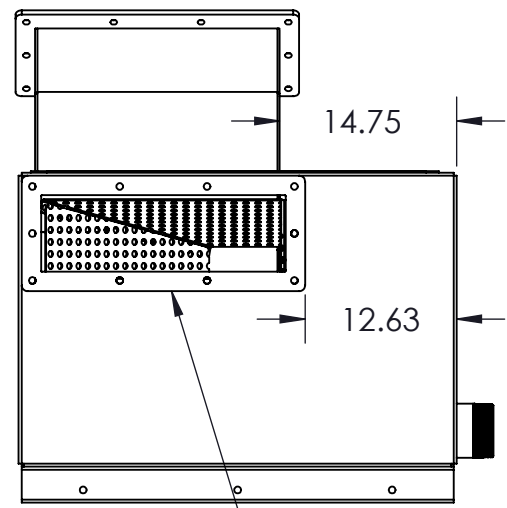
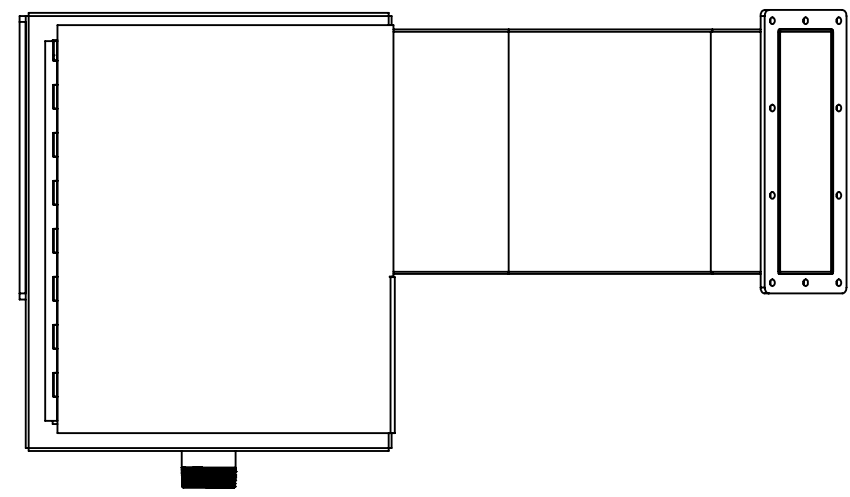
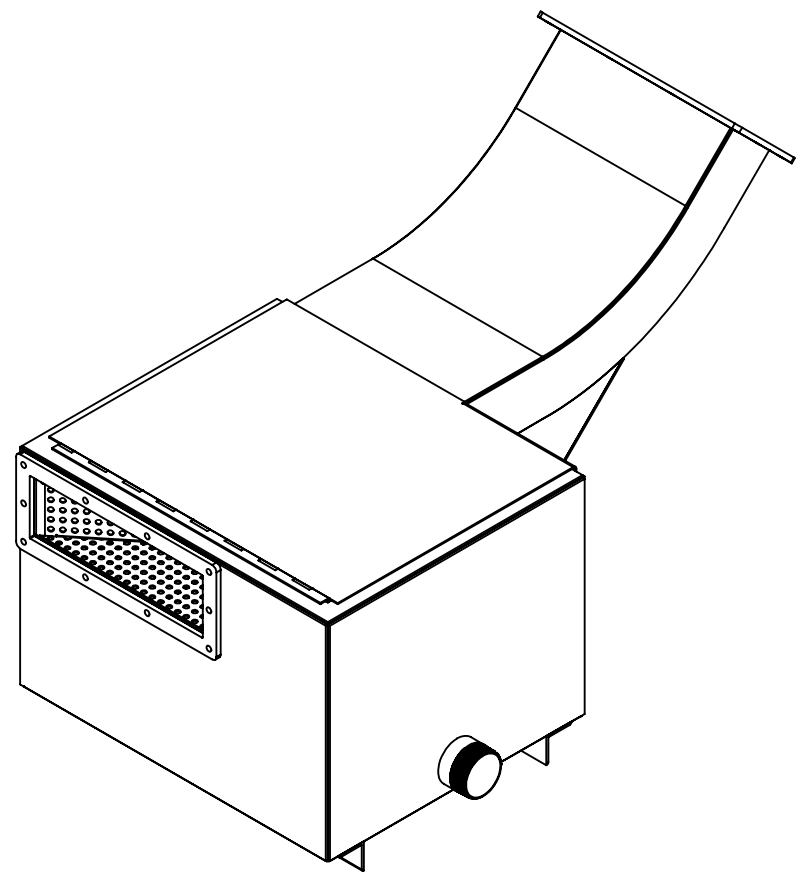
TITLE: Climbing Duct, 12' Open		
SIZE B	DWG. NO. John Day Dam Assembly	REV
SCALE: 1:30 WEIGHT:		SHEET 10 OF 23

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

D
C
B
A

D
C
B
A



All Parts Except Lid and Fyke

See Flange_005 Detail



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF THE UNIVERSITY OF IDAHO IS PROHIBITED.

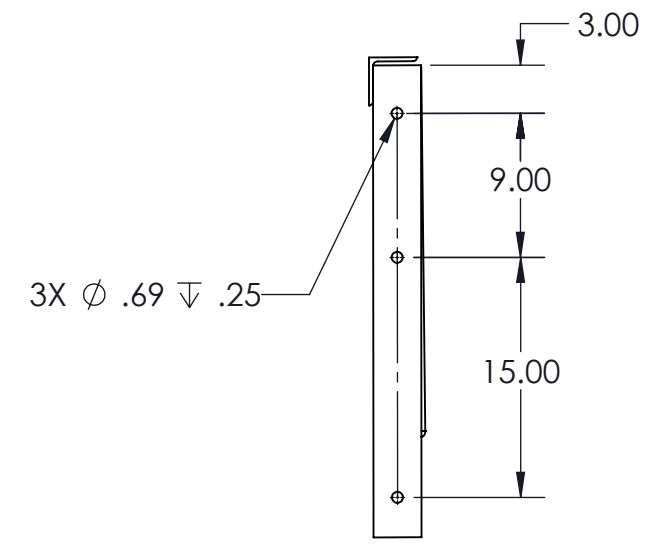
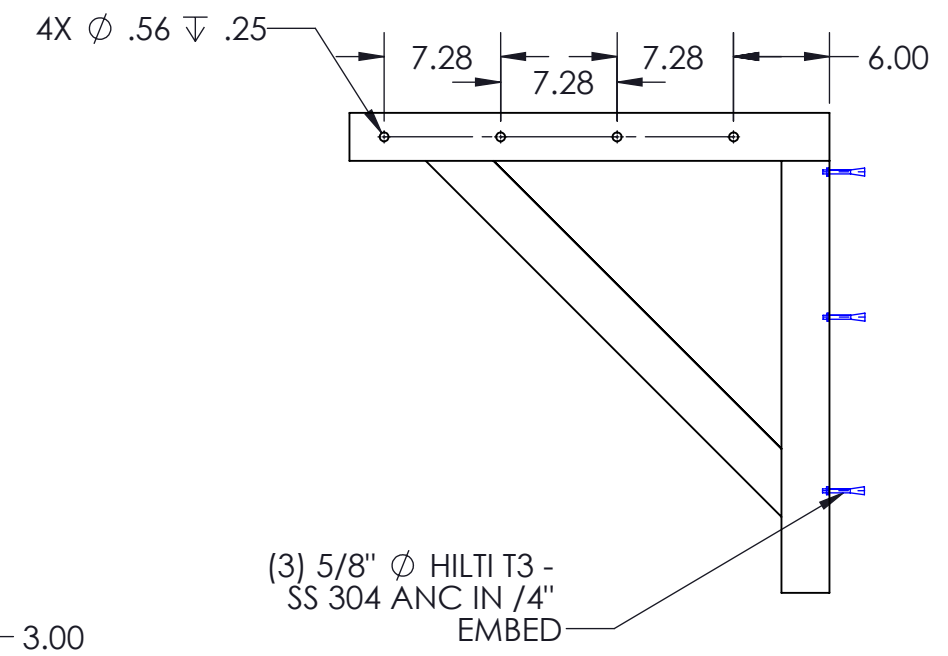
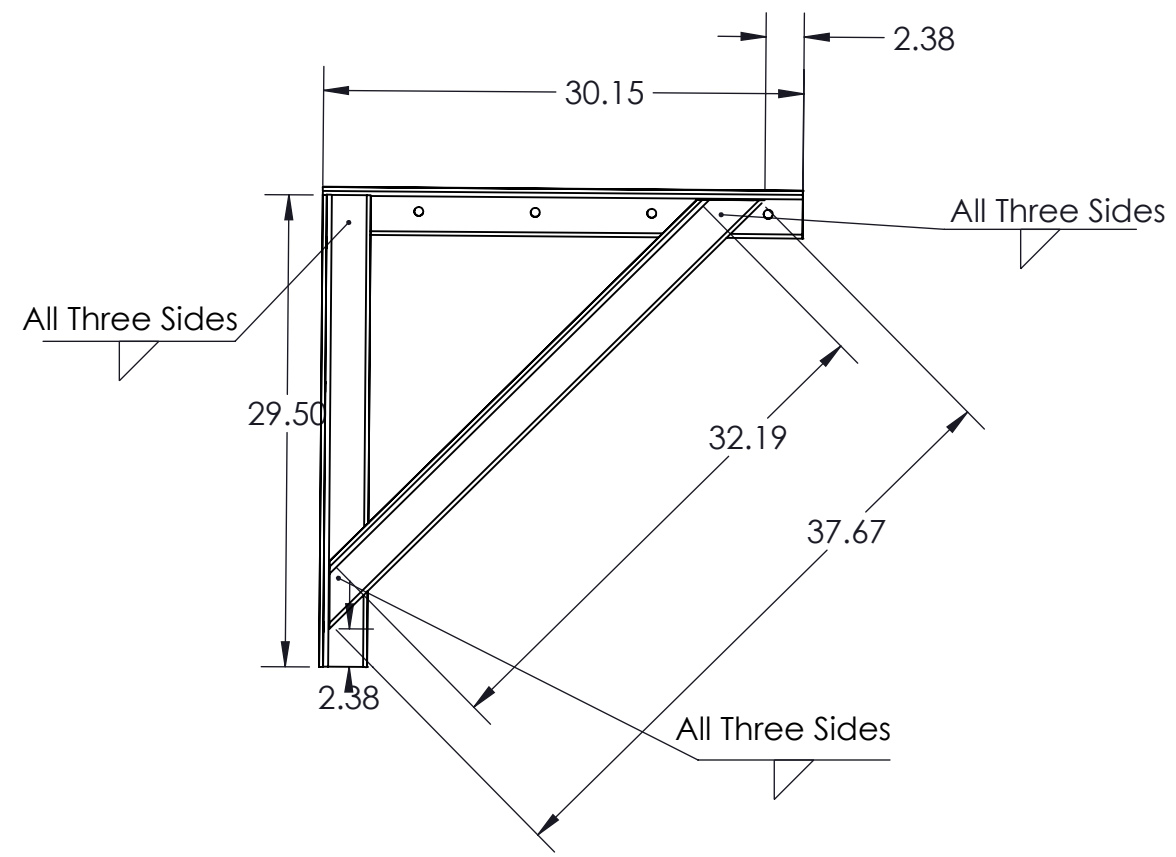
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	JCS	
		TOLERANCES:	CHECKED		
		FRACTIONAL ±	ENG APPR.		
		ANGULAR: MACH ± BEND ±	MFG APPR.		
		TWO PLACE DECIMAL ±	Q.A.		
		THREE PLACE DECIMAL ±	COMMENTS:		
		INTERPRET GEOMETRIC TOLERANCING PER:			
		MATERIAL			
		FINISH			
NEXT ASSY	USED ON				
APPLICATION		DO NOT SCALE DRAWING			

TITLE: Rest Box		
SIZE B	DWG. NO. John Day Dam Assembly	REV
SCALE: 1:30 WEIGHT:		SHEET 11 OF 23

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

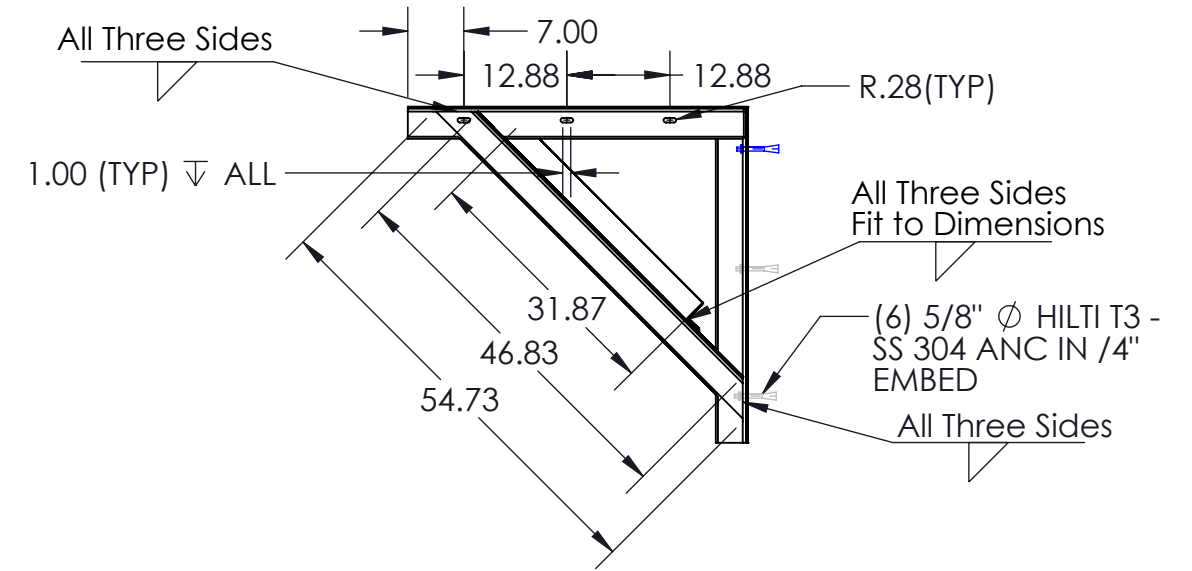
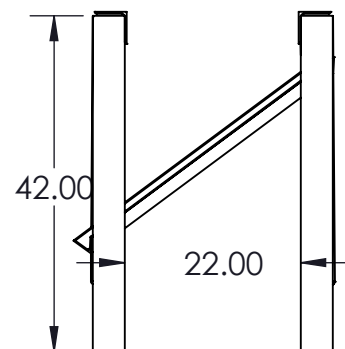
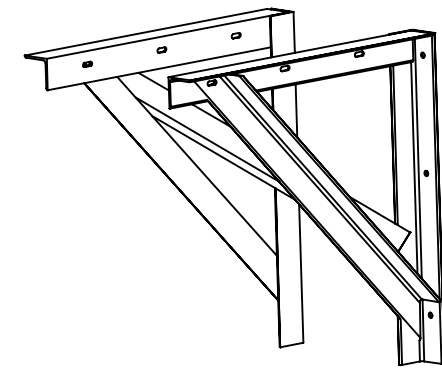
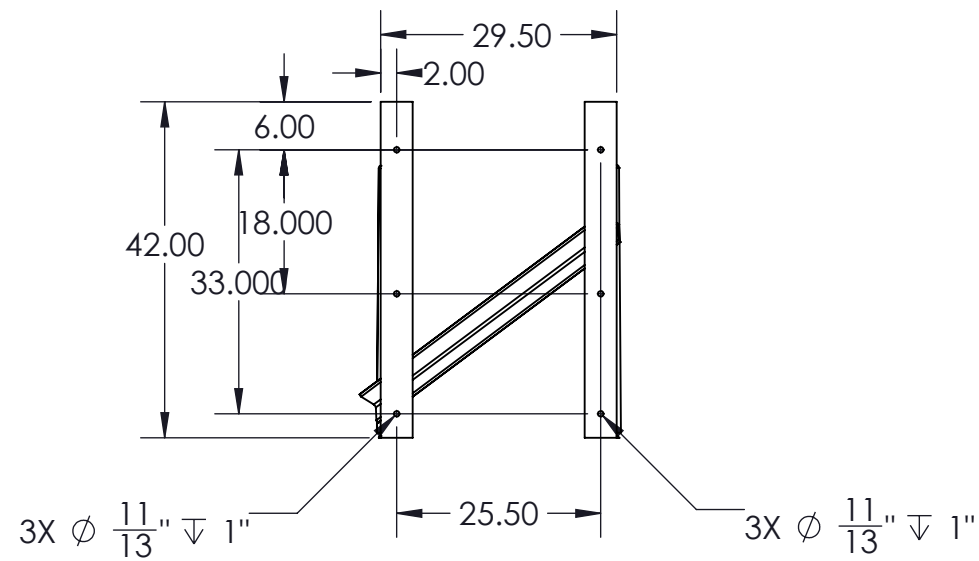
D
C
B
A



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF THE UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE: L3x3x0.25	
		DIMENSIONS ARE IN INCHES		DRAWN	JCS	TITLE: STRUCTURAL BRACKET	
		TOLERANCES:		CHECKED			
		FRACTIONAL ±		ENG APPR.			
		ANGULAR: MACH ± BEND ±		MFG APPR.			
		TWO PLACE DECIMAL ±		Q.A.			
		THREE PLACE DECIMAL ±		COMMENTS:			
		INTERPRET GEOMETRIC TOLERANCING PER:					
NEXT ASSY	USED ON	FINISH					
APPLICATION		DO NOT SCALE DRAWING					
				SIZE	DWG. NO.	REV	
				B	John Day Dam Assembly		
				SCALE: 1:12 WEIGHT:		SHEET 12 OF 23	

8 7 6 5 4 3 2 1



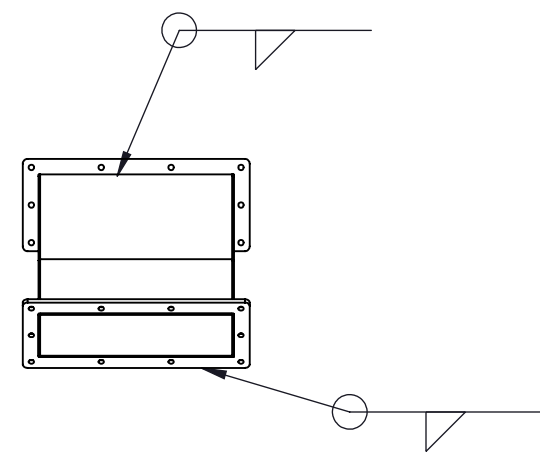
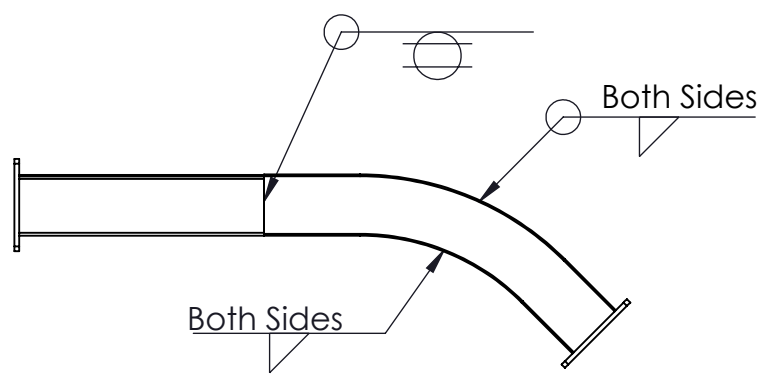
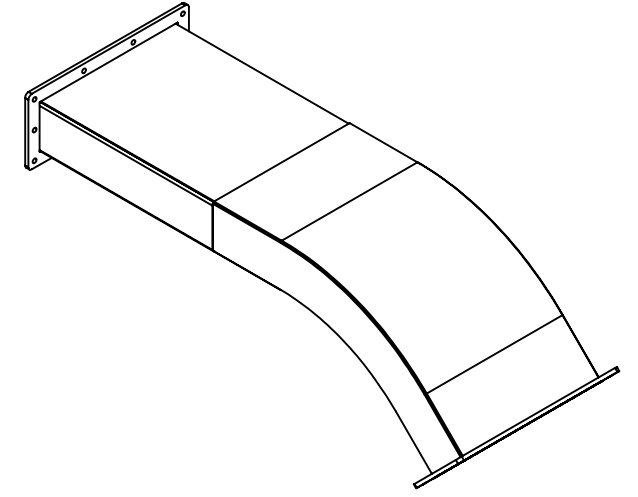
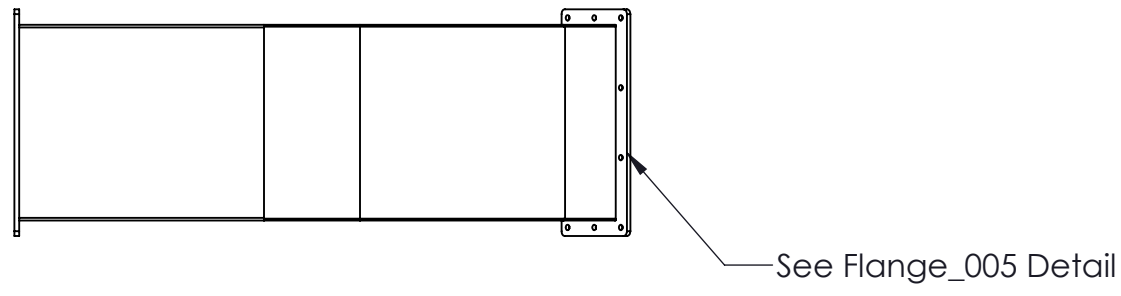
PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF THE UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE: L4x4x0.25	
		DIMENSIONS ARE IN INCHES		DRAWN	JCS	TITLE: REST BOX SUPPORT	
		TOLERANCES:		CHECKED			
		FRACTIONAL \pm		ENG APPR.			
		ANGULAR: MACH \pm BEND \pm		MFG APPR.			
		TWO PLACE DECIMAL \pm		Q.A.			
		THREE PLACE DECIMAL \pm		COMMENTS:			
		INTERPRET GEOMETRIC TOLERANCING PER:				SIZE B	DWG. NO. John Day Dam Assembly
NEXT ASSY	USED ON	FINISH				REV	
APPLICATION		DO NOT SCALE DRAWING				SCALE: 1:24	WEIGHT: SHEET 13 OF 23

8 7 6 5 4 3 2 1

D
C
B
A

D
C
B
A



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF THE UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:
		DIMENSIONS ARE IN INCHES
		TOLERANCES:
		FRACTIONAL ±
		ANGULAR: MACH ± BEND ±
		TWO PLACE DECIMAL ±
		THREE PLACE DECIMAL ±
		INTERPRET GEOMETRIC TOLERANCING PER:
		MATERIAL
		FINISH
NEXT ASSY	USED ON	
APPLICATION		DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	JCS	
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

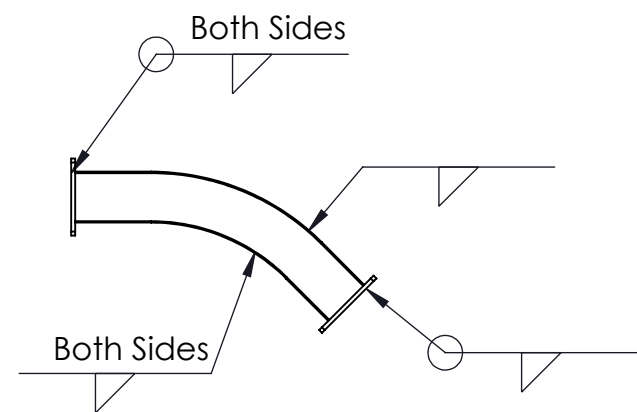
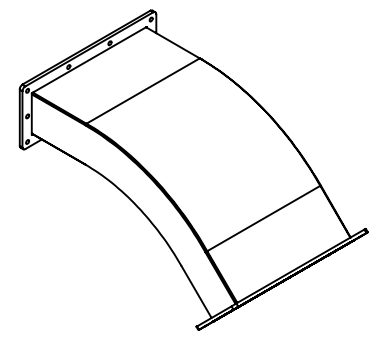
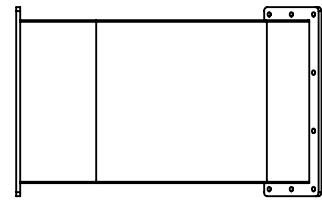
TITLE: RB Tran		
SIZE B	DWG. NO. John Day Dam Assembly	REV
SCALE: 1:20		WEIGHT:
		SHEET 14 OF 23

8 7 6 5 4 3 2 1

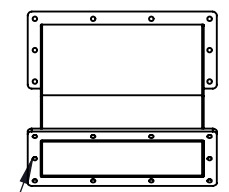
8 7 6 5 4 3 2 1

D
C
B
A

D
C
B
A



See Flange_005 Detail



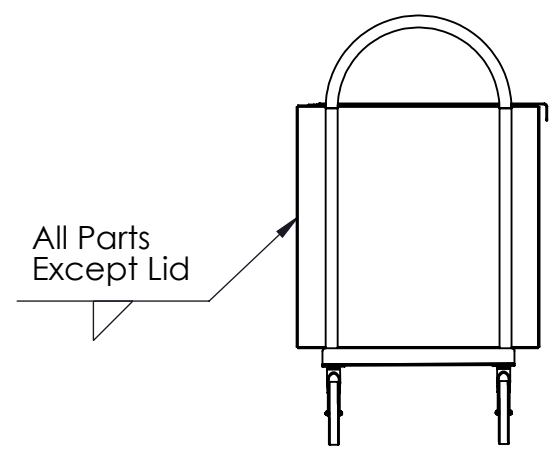
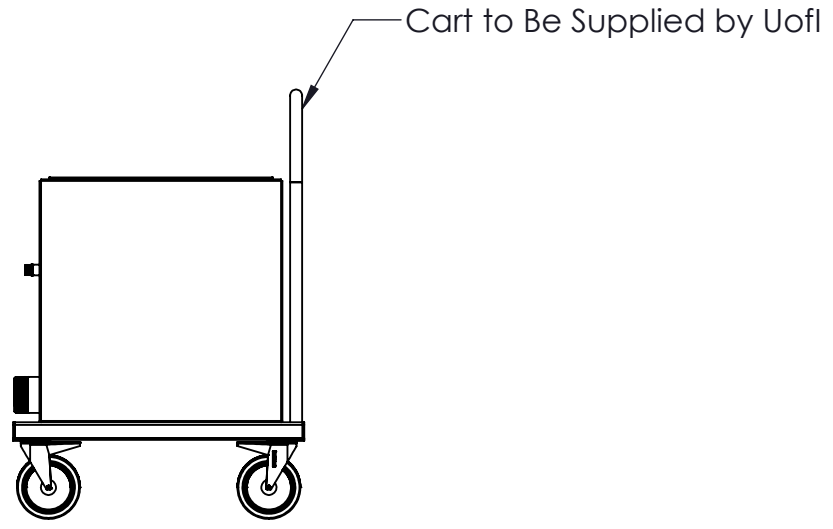
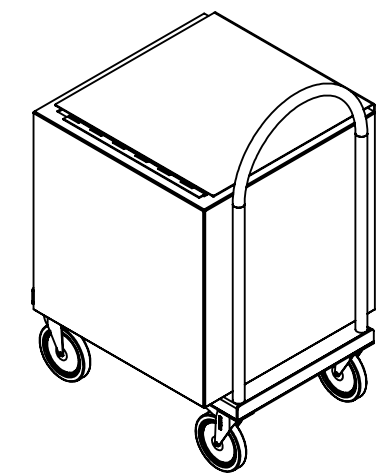
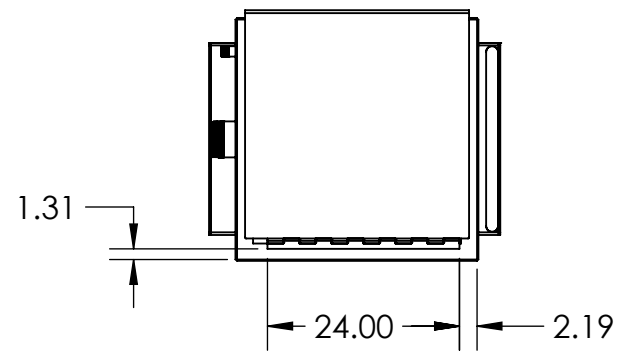
PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF THE UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	JCS	
		TOLERANCES:	CHECKED		
		FRACTIONAL ±	ENG APPR.		
		ANGULAR: MACH ± BEND ±	MFG APPR.		
		TWO PLACE DECIMAL ±	Q.A.		
		THREE PLACE DECIMAL ±	COMMENTS:		
		INTERPRET GEOMETRIC TOLERANCING PER:			
		MATERIAL			
		FINISH			
NEXT ASSY	USED ON				
APPLICATION		DO NOT SCALE DRAWING			
			TITLE: UPW Tran		
SIZE	DWG. NO.	REV			
B	John Day Dam Assembly				
SCALE: 1:24		WEIGHT:	SHEET 15 OF 23		

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

D
C
B
A



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF THE UNIVERSITY OF IDAHO IS PROHIBITED.

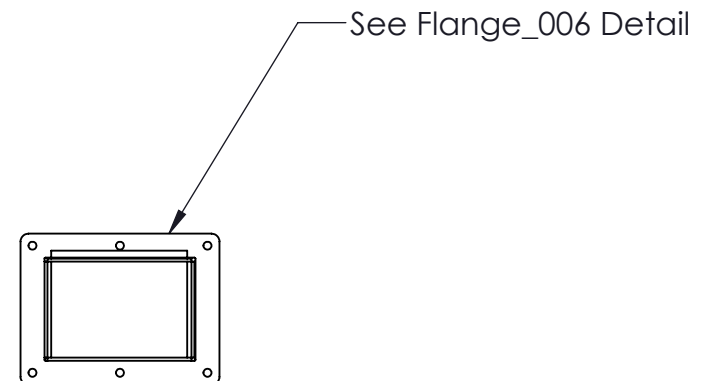
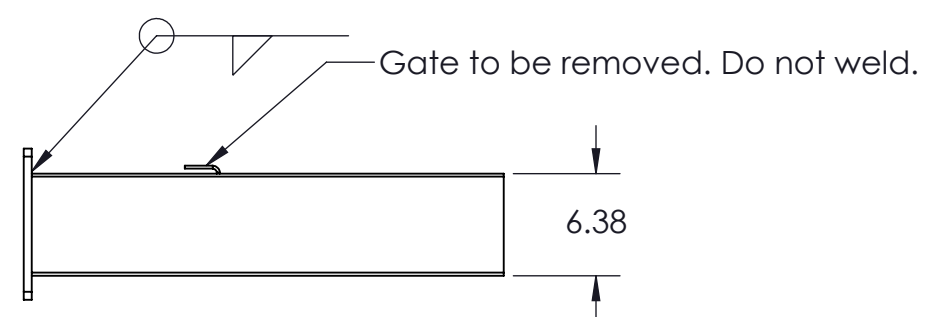
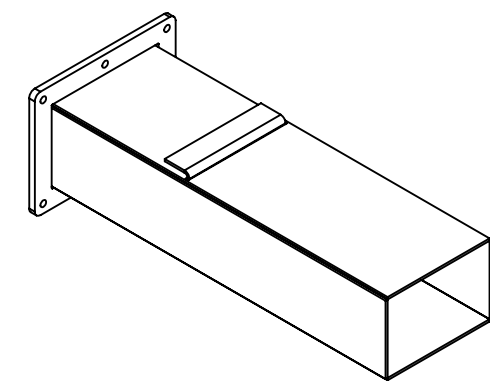
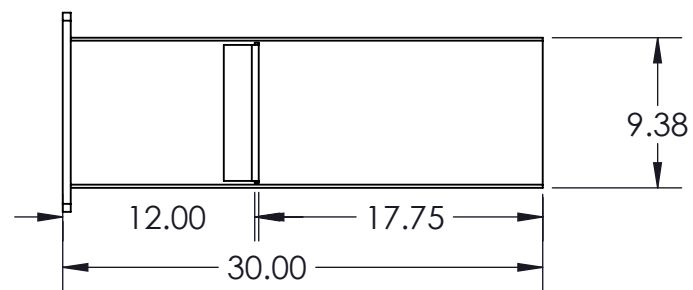
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	JCS	
		TOLERANCES:	CHECKED		
		FRACTIONAL ±	ENG APPR.		
		ANGULAR: MACH ± BEND ±	MFG APPR.		
		TWO PLACE DECIMAL ±	Q.A.		
		THREE PLACE DECIMAL ±	COMMENTS:		
		INTERPRET GEOMETRIC TOLERANCING PER:			
		MATERIAL			
		FINISH			
NEXT ASSY	USED ON				
APPLICATION		DO NOT SCALE DRAWING			

TITLE:		
Trap Box		
SIZE	DWG. NO.	REV
B	John Day Dam Assembly	
SCALE: 1:24 WEIGHT:		SHEET 16 OF 23

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

D
C
B
A



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF THE UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	JCS	
		TOLERANCES:	CHECKED		
		FRACTIONAL ±	ENG APPR.		
		ANGULAR: MACH ± BEND ±	MFG APPR.		
		TWO PLACE DECIMAL ±	Q.A.		
		THREE PLACE DECIMAL ±	COMMENTS:		
		INTERPRET GEOMETRIC TOLERANCING PER:			
		MATERIAL			
		FINISH			
NEXT ASSY	USED ON				
APPLICATION		DO NOT SCALE DRAWING			

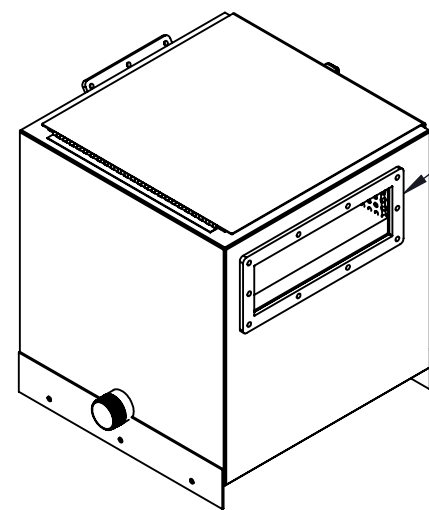
TITLE:		
Trap Exit		
SIZE	DWG. NO.	REV
B	John Day Dam Assembly	
SCALE: 1:12 WEIGHT:		SHEET 17 OF 23

8 7 6 5 4 3 2 1

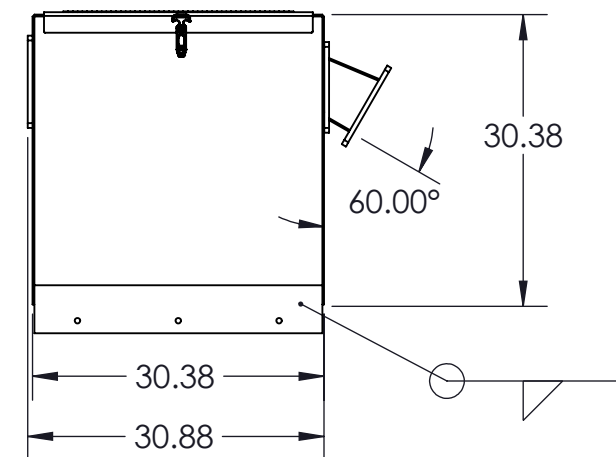
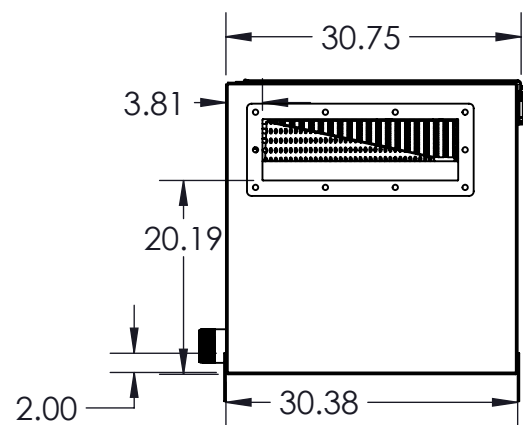
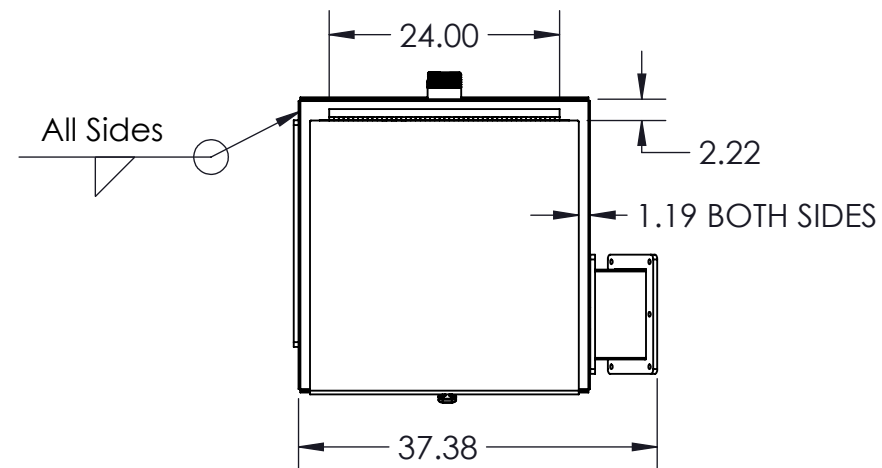
8 7 6 5 4 3 2 1

D
C
B
A

D
C
B
A



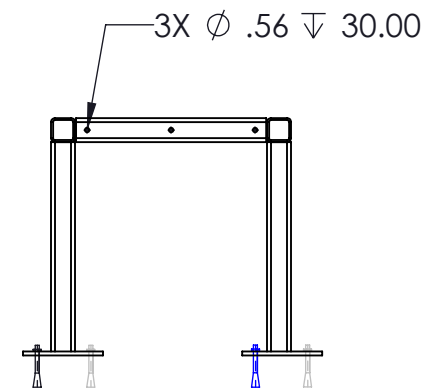
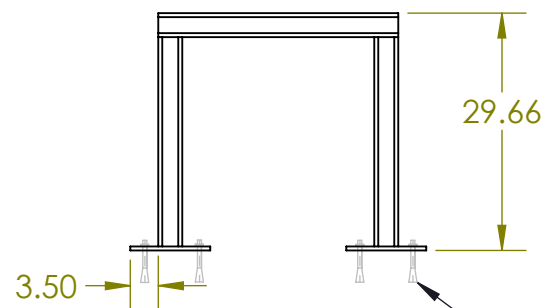
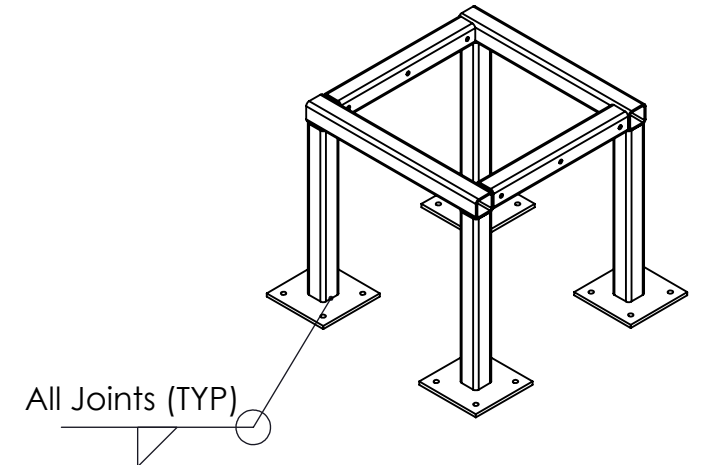
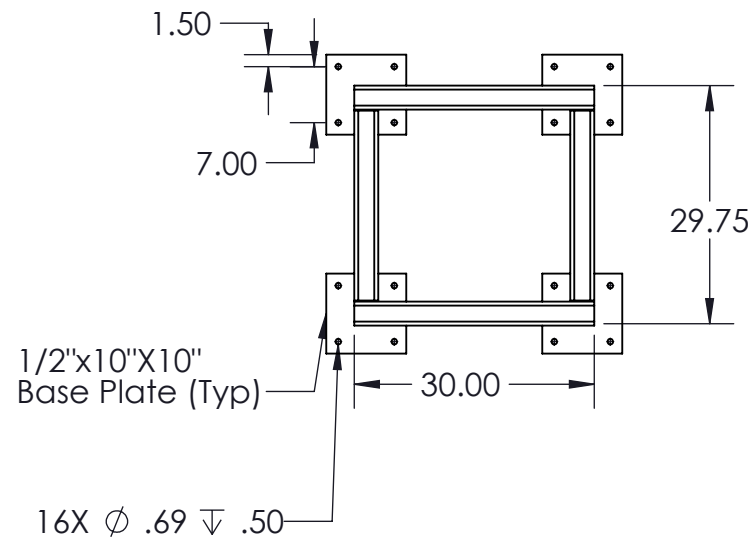
See Flange_005 Detail



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF THE UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE		
		DIMENSIONS ARE IN INCHES		DRAWN	JCS		
		TOLERANCES:		CHECKED		TITLE:	
		FRACTIONAL ±		ENG APPR.		Upwelling Box	
		ANGULAR: MACH ± BEND ±		MFG APPR.			
		TWO PLACE DECIMAL ±		Q.A.			
		THREE PLACE DECIMAL ±		COMMENTS:			
		INTERPRET GEOMETRIC TOLERANCING PER:					
		MATERIAL					
NEXT ASSY	USED ON	FINISH					
APPLICATION		DO NOT SCALE DRAWING					
				SIZE	DWG. NO.	REV	
				B	John Day Dam Assembly		
				SCALE: 1:20		WEIGHT:	SHEET 18 OF 23

8 7 6 5 4 3 2 1



(16) 5/8" Ø HILTI T3 - SS 304 ANC IN 1/4" EMBED



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF THE UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	STOCK SIZE: 3x3x3/16 Square Tubing	
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±		DRAWN	JCS	TITLE: UPWELLING BOX BASE	
		INTERPRET GEOMETRIC TOLERANCING PER:		CHECKED		SIZE B DWG. NO. John Day Dam Assembly REV	
NEXT ASSY	USED ON	FINISH		ENG APPR.		SCALE: 1:24 WEIGHT: SHEET 19 OF 23	
APPLICATION		DO NOT SCALE DRAWING		MFG APPR.			
				Q.A.			
				COMMENTS:			

8 7 6 5 4 3 2 1

D

C

B

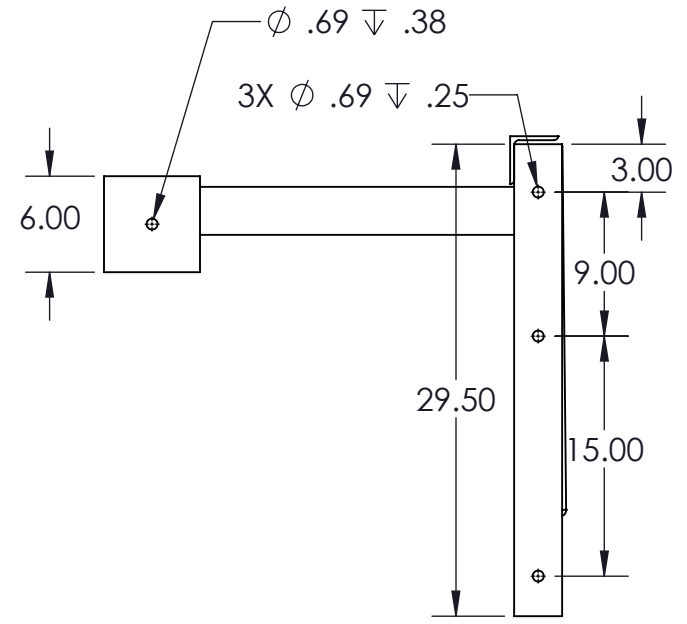
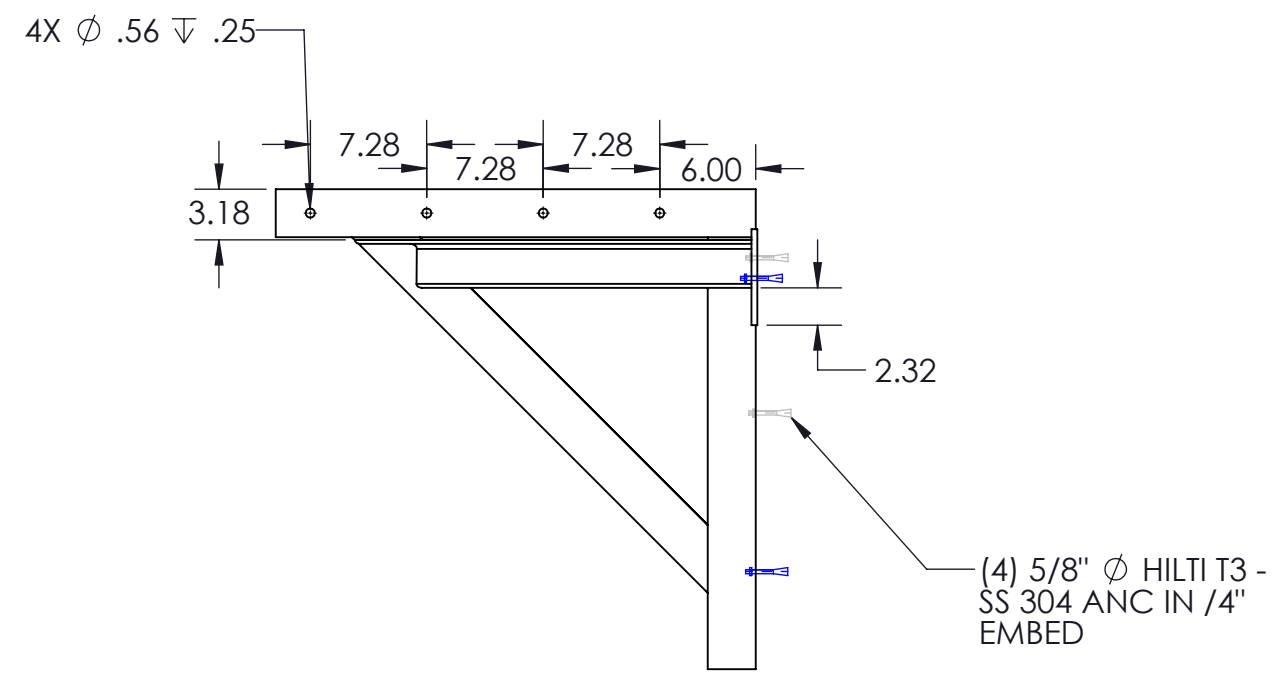
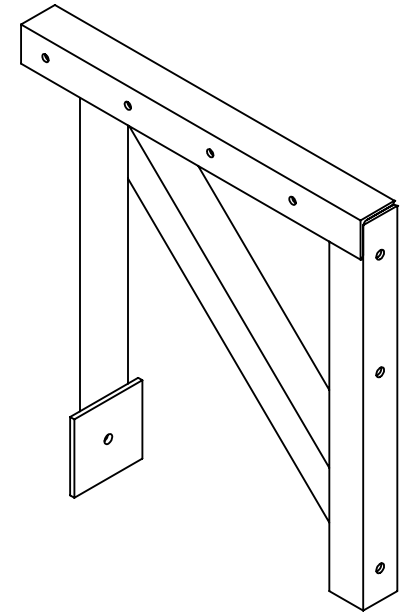
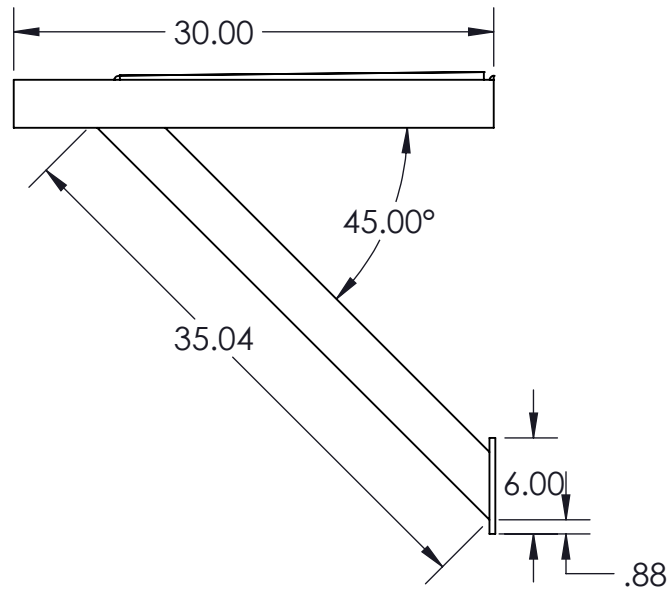
A

D

C

B

A



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF THE UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:
		DIMENSIONS ARE IN INCHES
		TOLERANCES:
		FRACTIONAL ±
		ANGULAR: MACH ± BEND ±
		TWO PLACE DECIMAL ±
		THREE PLACE DECIMAL ±
		INTERPRET GEOMETRIC TOLERANCING PER:
		FINISH
NEXT ASSY	USED ON	DO NOT SCALE DRAWING
APPLICATION		

	NAME	DATE
DRAWN	JCS	
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

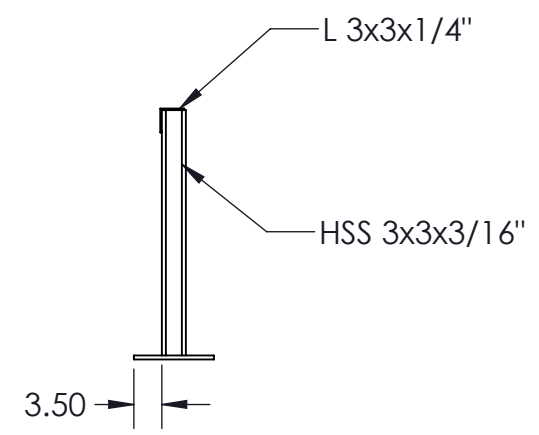
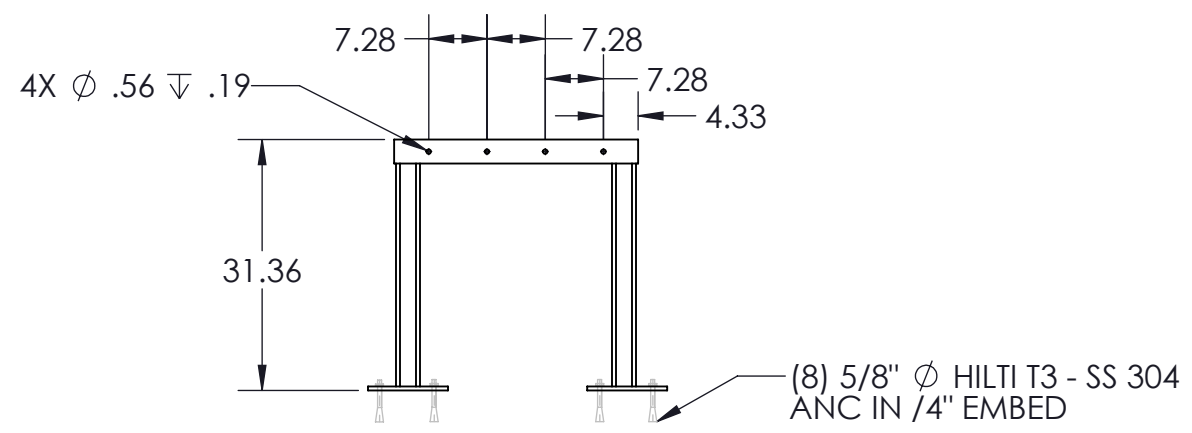
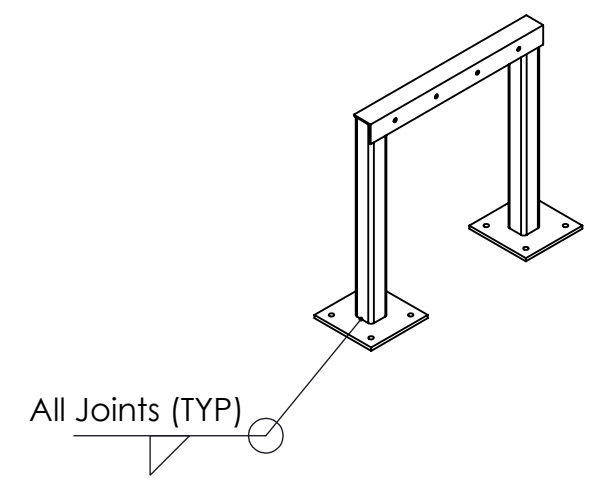
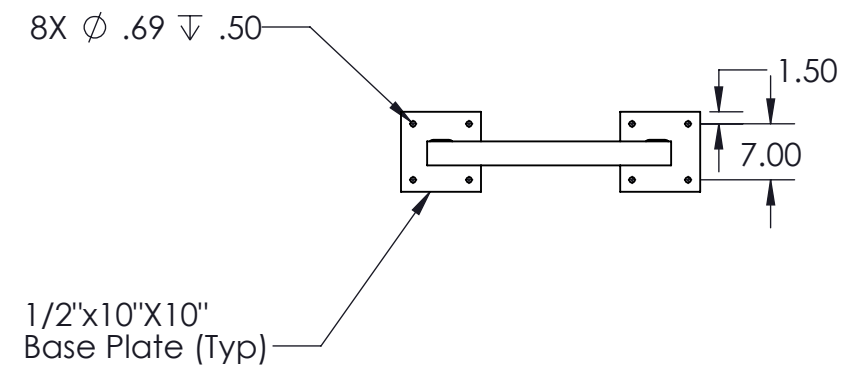
STOCK SIZE: L3x3x0.25		
TITLE: LOWER CHANNEL SUPPORT		
SIZE B	DWG. NO. John Day Dam Assembly	REV
SCALE: 1:12	WEIGHT:	SHEET 20 OF 23

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

D
C
B
A

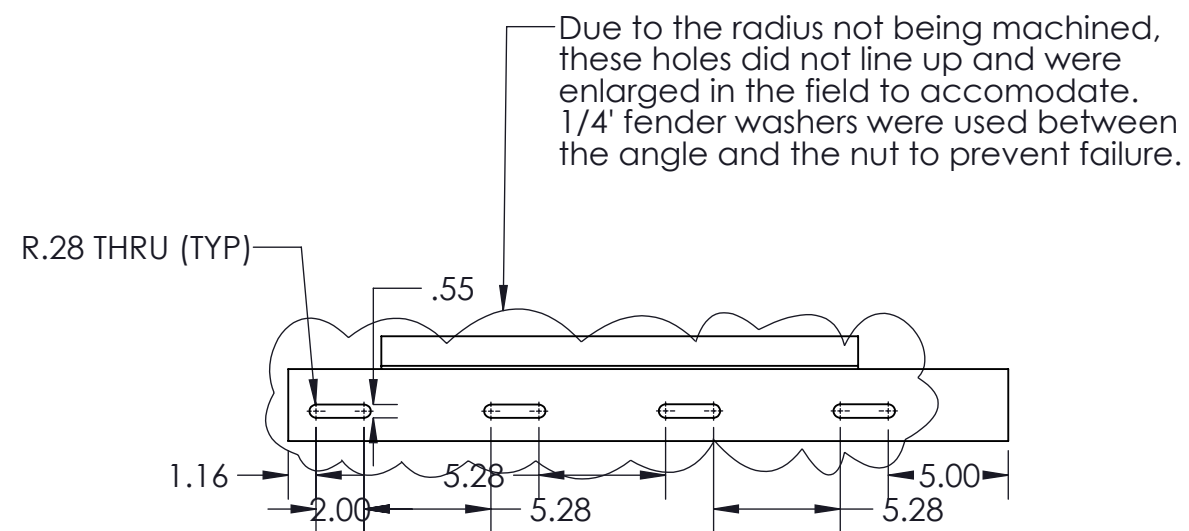
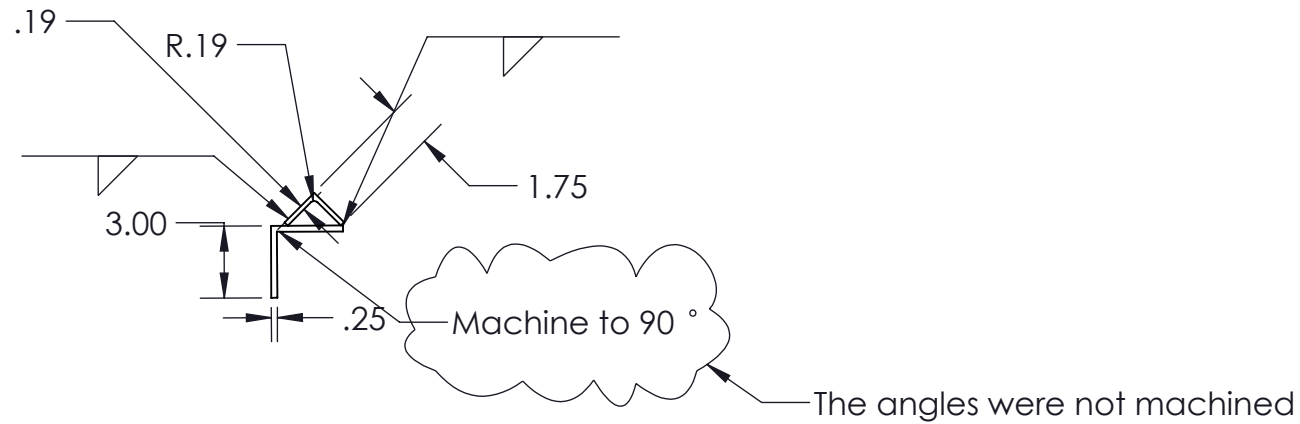
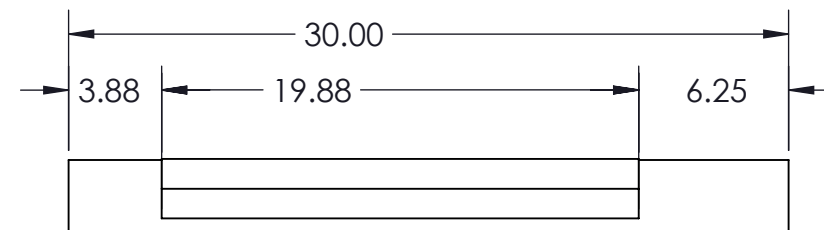
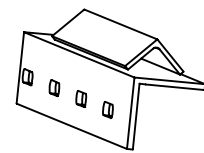
D
C
B
A



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF THE UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±		DRAWN	JCS
		INTERPRET GEOMETRIC TOLERANCING PER:		CHECKED	
		MATERIAL		ENG APPR.	
		FINISH		MFG APPR.	
NEXT ASSY	USED ON			Q.A.	
APPLICATION		DO NOT SCALE DRAWING		COMMENTS:	
TITLE: Deck Channel Support					
SIZE	DWG. NO.	REV			
B	John Day Dam Assembly				
SCALE: 1:24		WEIGHT:		SHEET 21 OF 23	

8 7 6 5 4 3 2 1



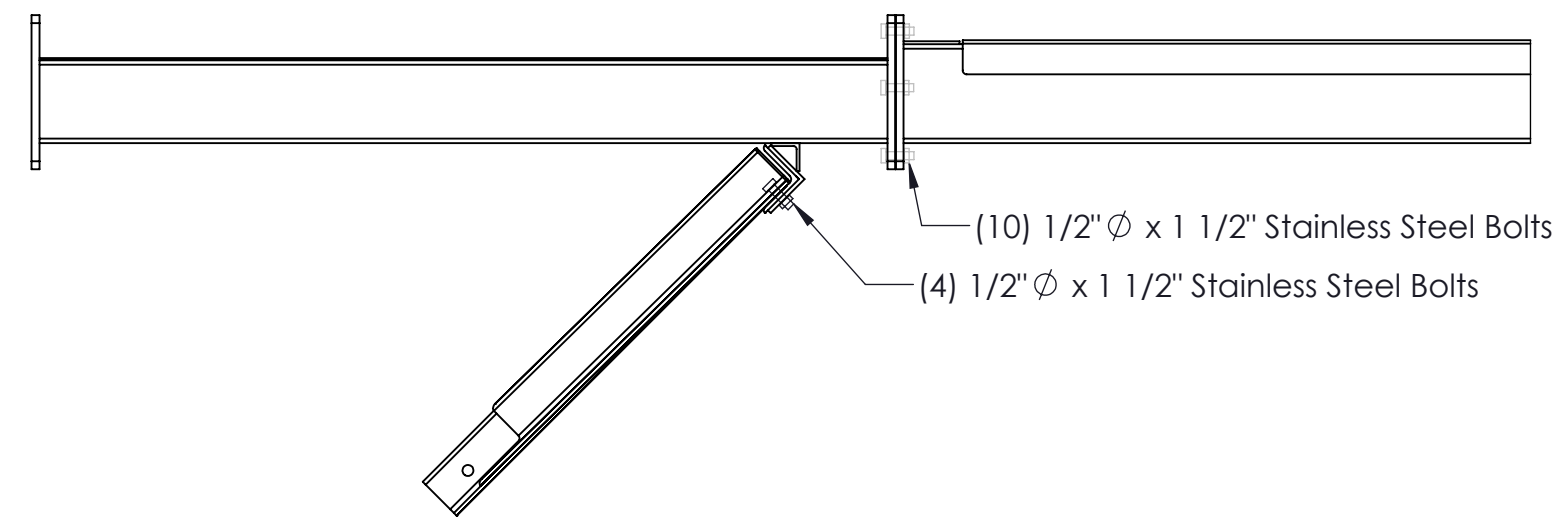
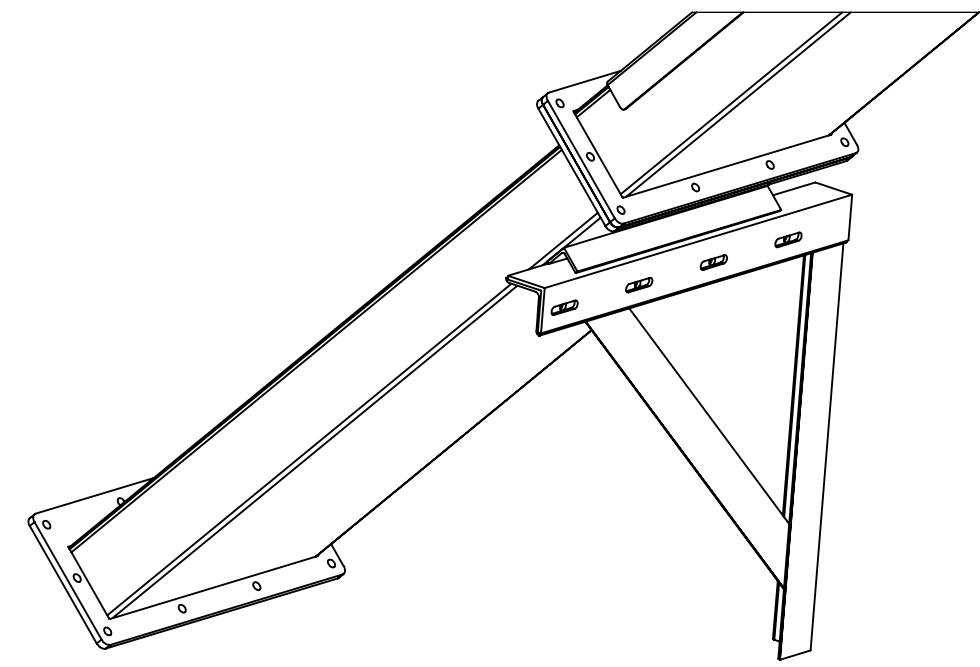
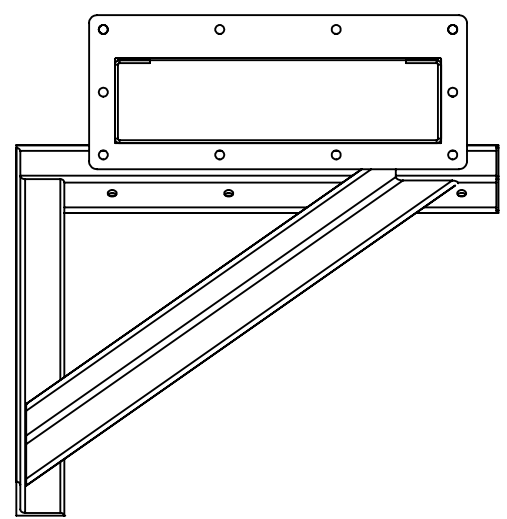
PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF THE UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES		DRAWN	JCS
		TOLERANCES:		CHECKED	
		FRACTIONAL ±		ENG APPR.	
		ANGULAR: MACH ± BEND ±		MFG APPR.	
		TWO PLACE DECIMAL ±		Q.A.	
		THREE PLACE DECIMAL ±		COMMENTS:	
		INTERPRET GEOMETRIC TOLERANCING PER:			
		MATERIAL			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			
TITLE:			Channel Mount		
SIZE	DWG. NO.	REV			
B	John Day Dam Assembly				
SCALE: 1:8	WEIGHT:	SHEET 22 OF 23			

8 7 6 5 4 3 2 1

D
C
B
A

D
C
B
A



(10) 1/2" ϕ x 1 1/2" Stainless Steel Bolts
(4) 1/2" ϕ x 1 1/2" Stainless Steel Bolts



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THE UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF THE UNIVERSITY OF IDAHO IS PROHIBITED.

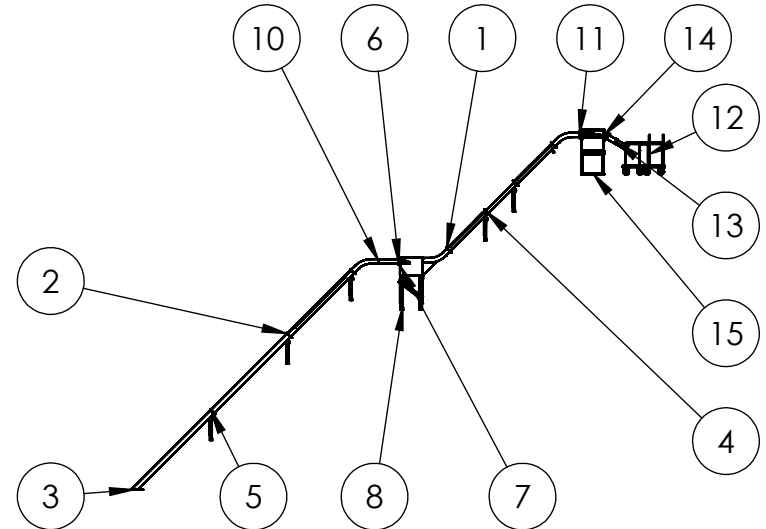
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	JCS	
		TOLERANCES:	CHECKED		
		FRACTIONAL \pm	ENG APPR.		
		ANGULAR: MACH \pm BEND \pm	MFG APPR.		
		TWO PLACE DECIMAL \pm	Q.A.		
		THREE PLACE DECIMAL \pm	COMMENTS:		
		INTERPRET GEOMETRIC TOLERANCING PER:			
		MATERIAL			
		FINISH			
NEXT ASSY	USED ON				
APPLICATION		DO NOT SCALE DRAWING			

TITLE:
Duct Bracket Assembly

SIZE B	DWG. NO. John Day Dam Assembly	REV
SCALE: 1:12 WEIGHT:		SHEET 23 OF 23

8 7 6 5 4 3 2 1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Channel 8x20 6ft	6' Channel	2
2	Channel 8x20 10ft	10' Channel	1
3	Channel_8x20_Entry	12' Open Chnl 1 Fl	1
4	Channel_5.1875x20_7ft under girder	Climbing Duct, Under Girder	1
5	Channel_8x20_12ft open	Climbing Duct, 12' Open	1
6	PIT Antenna	PIT Antenna	2
7	Sheetmetal Rest Box	Rest Box	1
8	Str_brac_03-1	Rest Box Support	1
9	strbracket	Structural Bracket	5
10	RB Tran	Transition	1
11	UPWTran	Transition	1
12	Trap_Box	Trap Box	2
13	TrapDrop	Trap Exit	1
14	Upwelling_Box	Upwelling Box	1
15	STRUCT_UPWELLING_BASE	Upwelling Box Base	1



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	STOCK SIZE:
		DIMENSIONS ARE IN INCHES	DRAWN	JCS	11/18/2012
		TOLERANCES:	CHECKED		TITLE:
		FRACTIONAL $\pm 1/16$	ENG APPR.		John Day Assembly
		ANGULAR: MACH ± 0.5 BEND ± 2	MFG APPR.		
		ONE PLACE DECIMAL $\pm .1$	Q.A.		
		TWO PLACE DECIMAL $\pm .06$	COMMENTS:		
		THREE PLACE DECIMAL ± 0.030			
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.100			
		MATERIAL			SIZE DWG. NO. REV
NEXT ASSY	USED ON	FINISH			A John Day Dam 01
APPLICATION		DO NOT SCALE DRAWING			SCALE: 1:256 WEIGHT: SHEET 1 OF 1