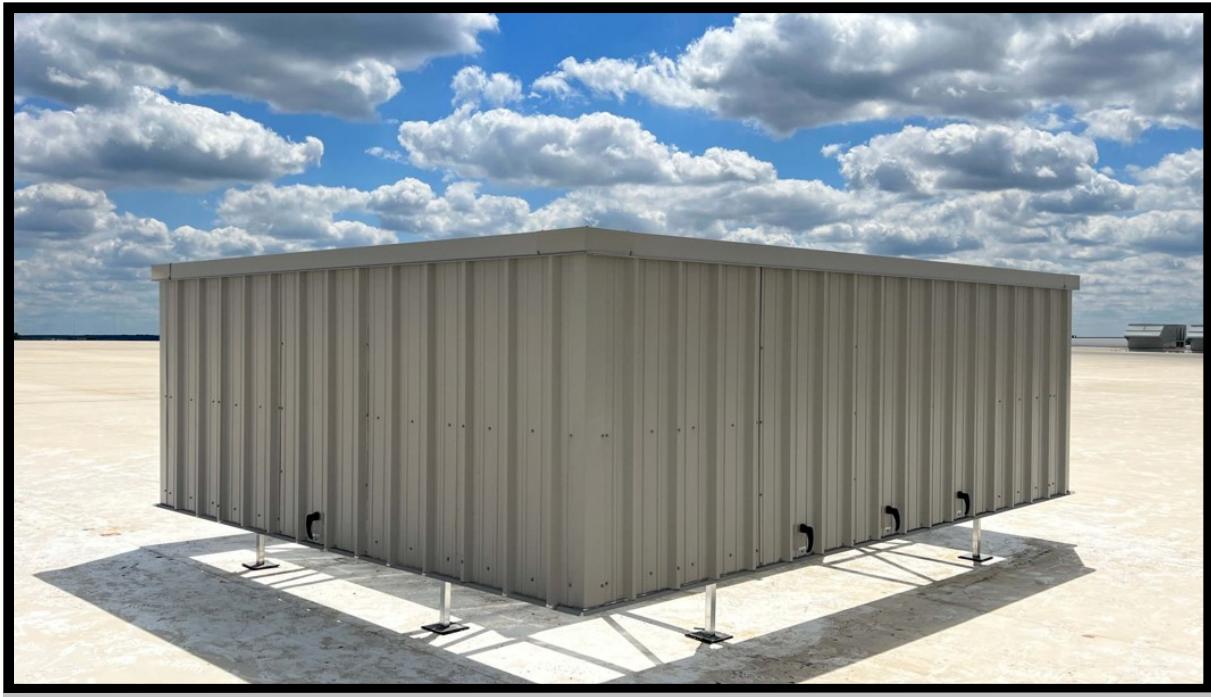




CUSTOM MECHANICAL EQUIPMENT

SCREENING ENGINEERING MANUAL



(580) 762 - 4114

CMEMULTIZONE.COM

2101 HALL BLVD

PONCA CITY, OK



CUSTOM MECHANICAL EQUIPMENT

SCREENING ENGINEERING MANUAL



SCREENING STRUCTURE

- **Exterior:** Screening shall be constructed of high ribbed, color fast, 26 gauge steel siding and trim. Coatings shall be siliconized polyester or Polyvinylidene Fluoride. Which minimizes chalking and fading by resisting the detrimental effects of the sun's UV rays, rain, humidity and weathering. Superior abrasion resistance allows our product to endure the physical abuse of installation without cracking or marring.
- **Structure:** Welded, light weight aluminum construction designed to fit each cabinet's clearance and access points. Screens are manufactured in sections for ease transportation and install.
- **Access:** Hinged doors provide access through the screen wall to the unit. The doors are also removable for additional temporary clearance.
- **Mounting:** Screening structure is supported by roof top unit at each of the four corners. Intermediate support is provided on all sides longer than 108".
- **Free air Clearance:** Free air space at the bottom of each screen is determined by subtracting 3" from the overall curb height. Additional airflow may be provided via louvered screening.
- **Color:** Standard colors are included in the quotes, and premium/metallic colors can be ordered for an additional cost.
- **Installation:** Factory installation of screening is available for an additional cost.



CUSTOM MECHANICAL EQUIPMENT

COLOR CHART



Colony Green



Evergreen



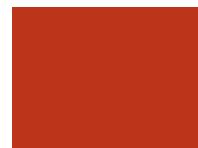
Fern Green



Hawaiian Blue



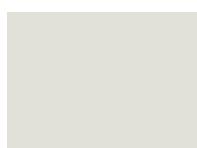
Gallery Blue*



Crimson Red



Berry



Polar White



Ash Gray



Charcoal Gray



Black



Ivory



Saddle Tan



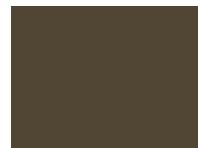
Light Stone



Desert Sand



Cocoa Brown



Burnished Slate



Copper Metallic*



Galvalume



* Premium Colors

- Only available in 26 gauge.

All colors available with 40 year finish warranty.

Color samples shown may vary from actual coil color. Final color selection should be made from actual color chips available upon request.

PBR Panel



Agri-Rib Panel



**Premium colors carry a price and lead time increase*

Colors only available in PBR and Agri-Rib panels



CUSTOM MECHANICAL EQUIPMENT

COLOR CHART

STANDARD COLORS



REGAL WHITE

BONE WHITE

SURREY BEIGE



SANDSTONE

ALMOND

BUCKSKIN



ASH GRAY

SLATE GRAY

CHARCOAL



MATTE BLACK

MEDIUM BRONZE

DARK BRONZE



Architectural Colors

DEEP-TONE PREMIUM COLORS ADDITIONAL COST WILL APPLY.



REGAL BLUE



PATINA GREEN

EVERGREEN

MANSARD BROWN



BRITE RED



COLONIAL RED

ROMAN BLUE

PATRICIAN BRONZE



HARTFORD GREEN



TERRA COTTA



BRANDYWINE



PREWEATHERED GALVALUME

LEADCOAT

SILVER METALLIC



COPPER PENNY METALLIC

TEXAS SILVER METALLIC

CHAMPAGNE METALLIC

* Colors are representative of colors offered and are not intended for matching purposes. Before placing an order, please request an actual color sample from McElroy Metal.

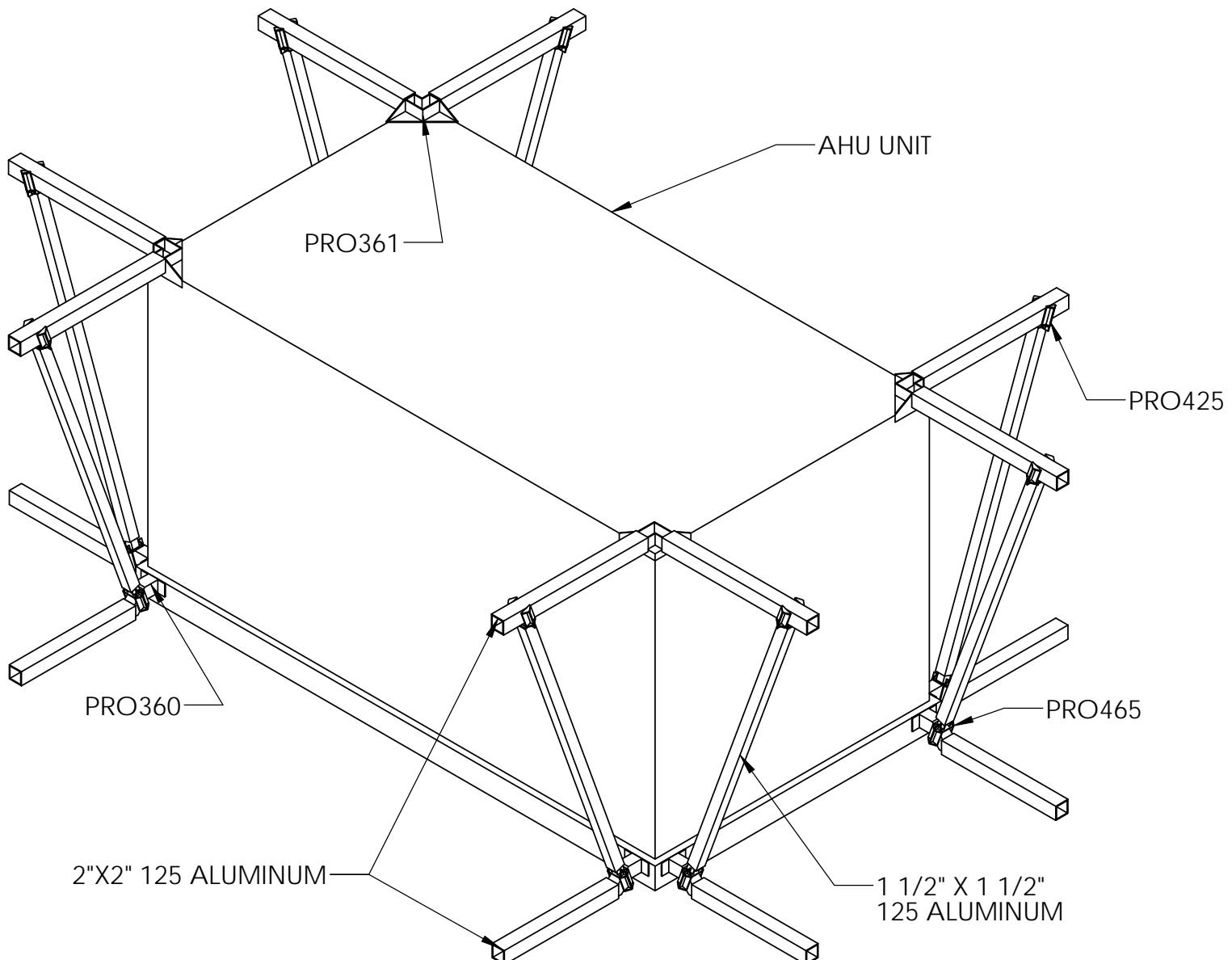
**Deep Tone Premium and Metallic colors carry a price and lead time increase
Colors only available in McElroy panel types (PBR, PBU, PBC, PBD, & 7.2)
PBU, PBC, PBD, & 7.2 panel may carry a price and lead time increase*

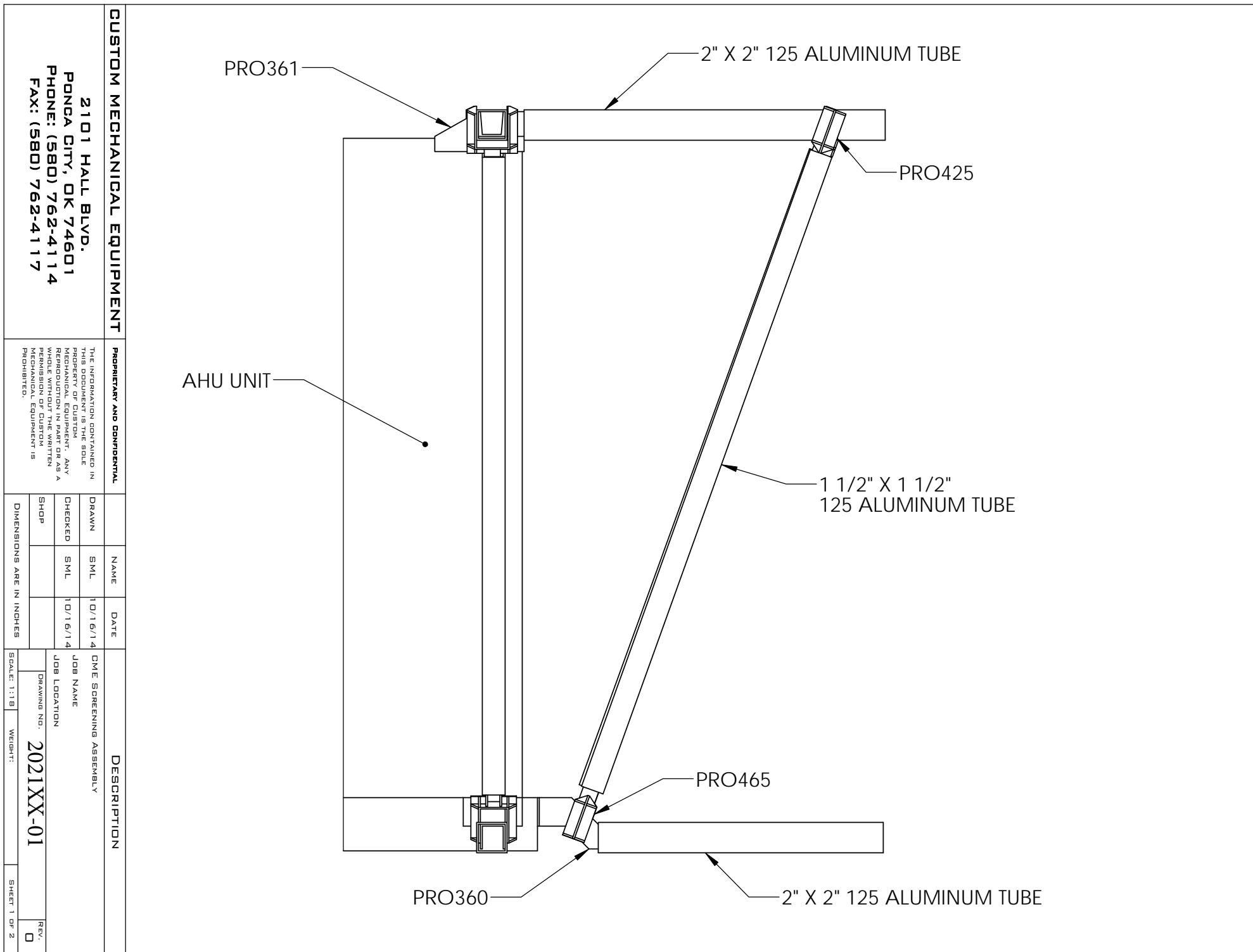
CUSTOM MECHANICAL EQUIPMENT		PROPRIETARY AND CONFIDENTIAL		DESCRIPTION	
2101 HALL BLVD. PONCA CITY, OK 74601 PHONE: (580) 762-4114 FAX: (580) 762-4117		DRAWN SML	NAME SML	DATE 6/20/14	THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE SOLE PROPERTY OF CUSTOM MECHANICAL EQUIPMENT. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CUSTOM MECHANICAL EQUIPMENT IS PROHIBITED.
		CHECKED SML			LGH-242, 300, 360 SCREENING
		SHOP			DRAWING NO. 2021XX-01
				REV. 1	DIMENSIONS ARE IN INCHES SCALE: 1:48 WEIGHT: 900LBS
					SHEET 1 OF 3

TOTAL SCREEN WEIGHT: 900LBS

COLOR: TO BE DETERMINED
MBCI Sig. 200 Series

CUSTOM MECHANICAL EQUIPMENT		PROPRIETARY AND CONFIDENTIAL		DESCRIPTION	
2101 HALL BLVD. PONCA CITY, OK 74601 PHONE: (580) 762-4114 FAX: (580) 762-4117		THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE SOLE PROPERTY OF CUSTOM MECHANICAL EQUIPMENT. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CUSTOM MECHANICAL EQUIPMENT IS PROHIBITED.	DRAWN SML 10/16/14	NAME SML 10/16/14	DATE CME SCREENING ASSEMBLY
		CHECKED SML 10/16/14	JOB NAME JOB LOCATION		
		SHOP		DRAWING NO. 2021XX-01	REV. □
DIMENSIONS ARE IN INCHES		SCALE: 1:18	WEIGHT:		SHEET 1 OF 2





CUSTOM MECHANICAL EQUIPMENT

2101 HALL BLVD.
PONCA CITY, OK 74601
PHONE: (580) 762-4114
FAX: (580) 762-4117

PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN
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REPRODUCTION IN PART OR AS A
WHOLE WITHOUT THE WRITTEN
PERMISSION OF CUSTOM
MECHANICAL EQUIPMENT IS
PROHIBITED.

DESCRIPTION
NAME

DATE

PRO360-5

5/20/14

MATERIAL: AL 356.2

5/20/14

BOTTOM SUPPORT

PERMISSION OF CUSTOM

MECHANICAL EQUIPMENT IS

PROHIBITED.

DIMENSIONS ARE IN INCHES

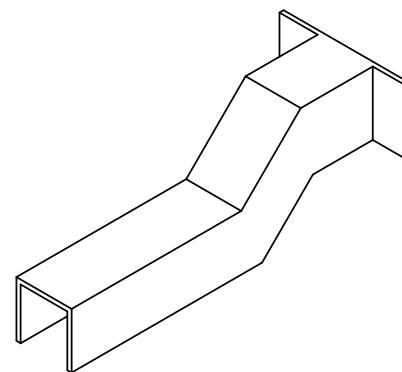
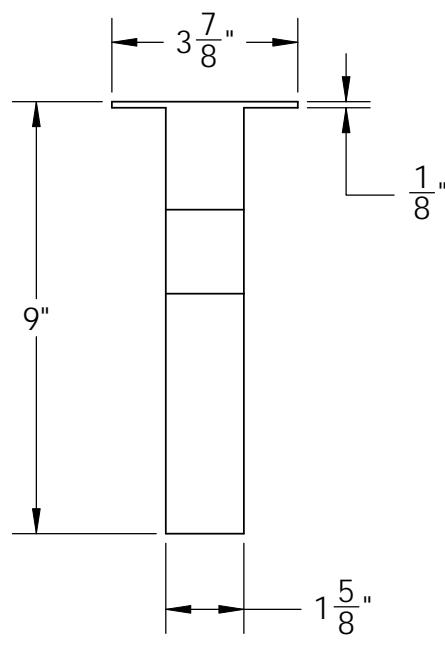
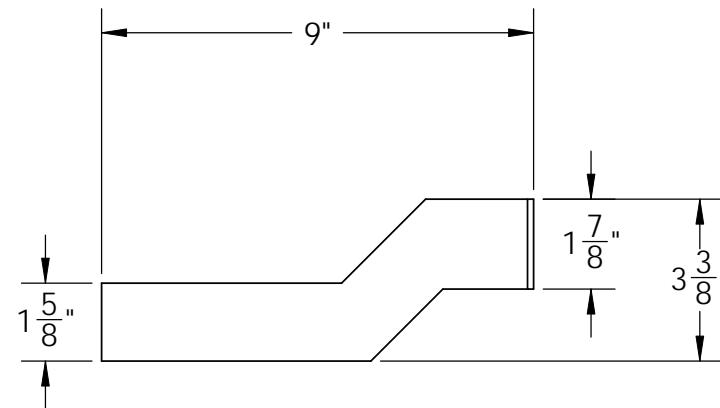
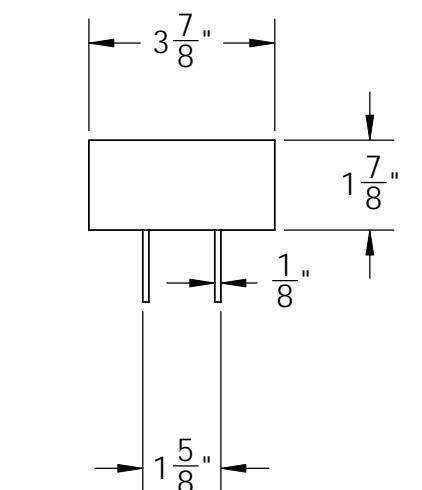
SCALE: 1:4

WEIGHT:

REV.

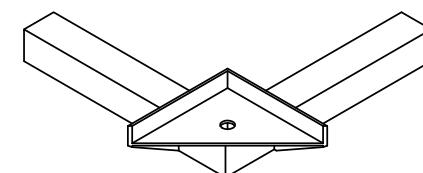
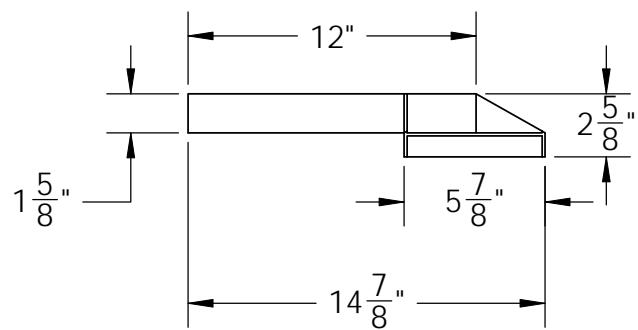
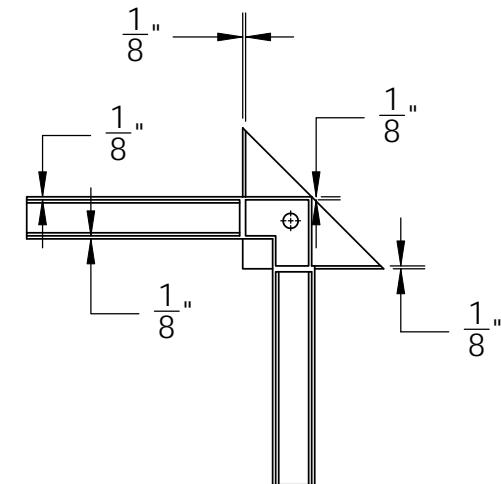
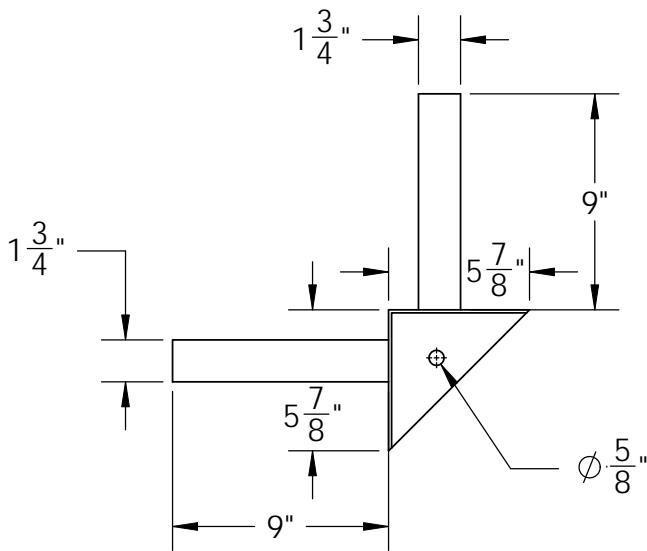
2021XX-01

SHEET 1 OF 1



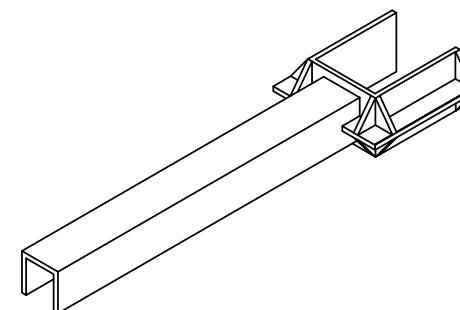
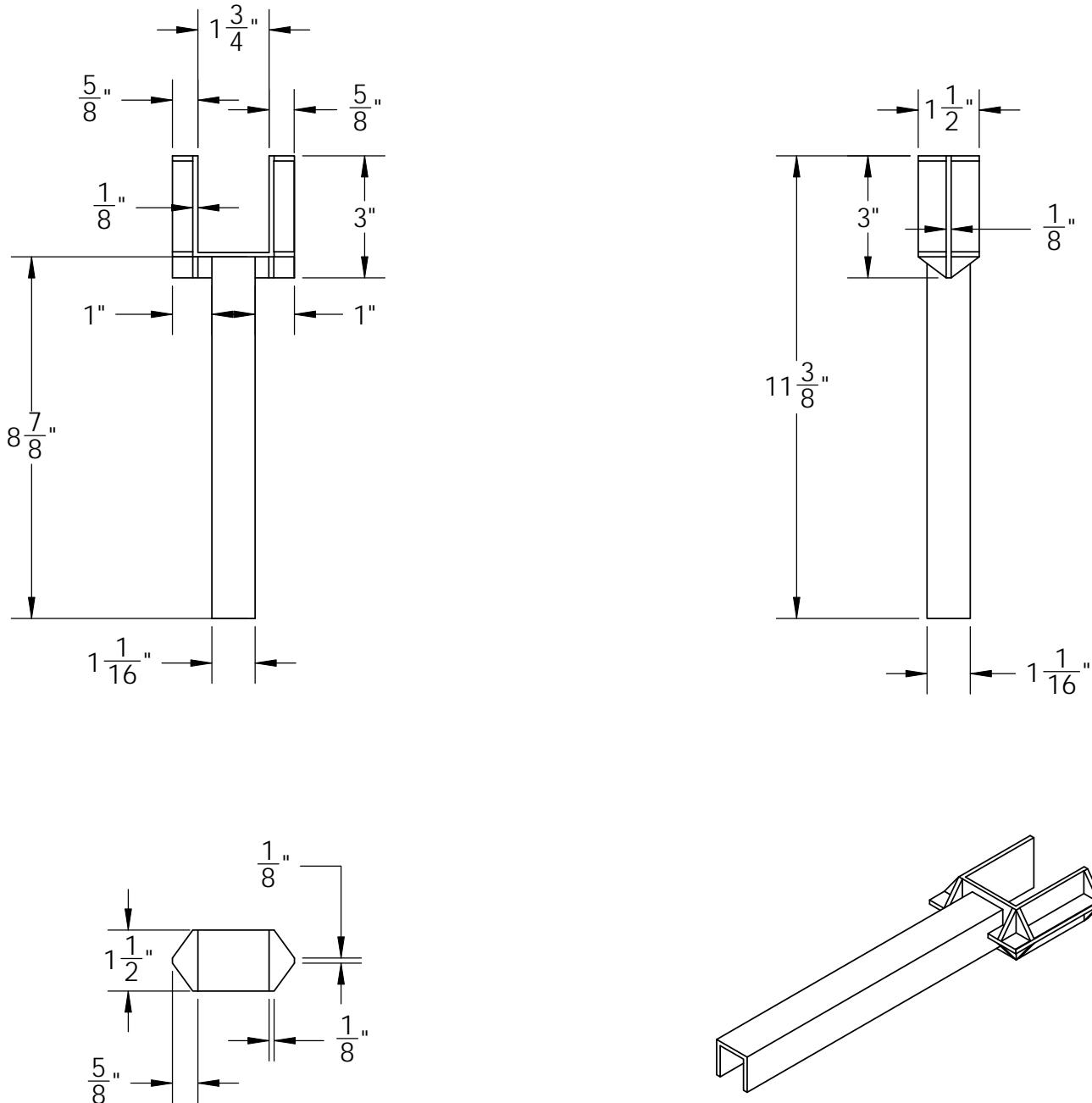
PRO 360-5
MATERIAL: AL 356.2

CUSTOM MECHANICAL EQUIPMENT		PROPRIETARY AND CONFIDENTIAL		NAME	DATE	DESCRIPTION
2101 HALL BLVD. PONCA CITY, OK 74601 PHONE: (580) 762-4114 FAX: (580) 762-4117		THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE SOLE PROPERTY OF CUSTOM MECHANICAL EQUIPMENT. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CUSTOM MECHANICAL EQUIPMENT IS PROHIBITED.	DRAWN CHECKED SHOP	SML SML SML	6/20/14 6/20/14 6/20/14	PRO361-5 MATERIAL: AL 356.2 TOP SUPPORT DRAWING NO. 2021XX-01 REV. □
DIMENSIONS ARE IN INCHES		SCALE: 1:8	WEIGHT:			
SHEET 1 OF 1						



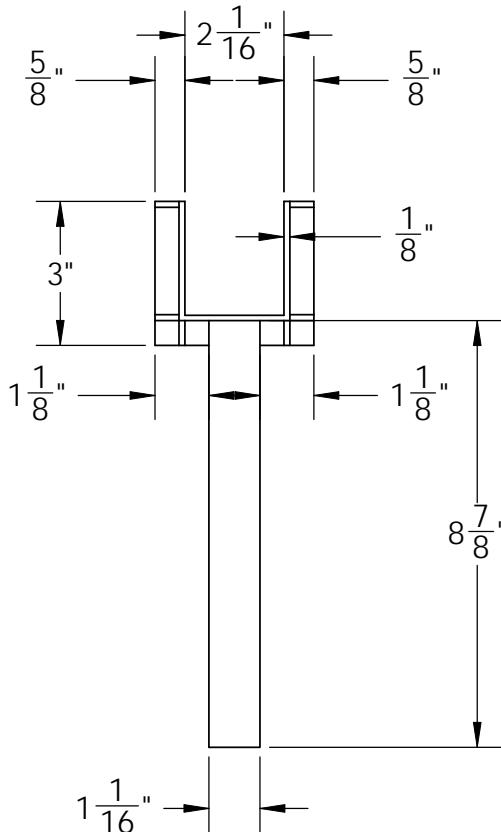
PRO 361-5
MATERIAL: AL 356.2

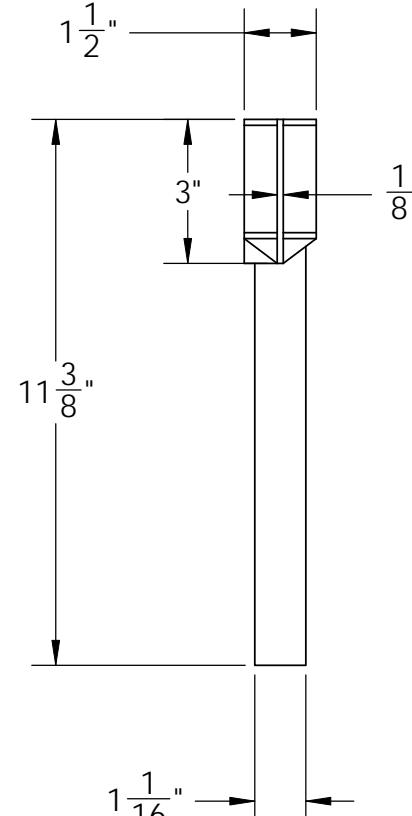
CUSTOM MECHANICAL EQUIPMENT		PROPRIETARY AND CONFIDENTIAL		DESCRIPTION	
NAME	DATE	DRAWN	SML	NAME	DATE
2101 HALL BLVD. PONCA CITY, OK 74601 PHONE: (580) 762-4114 FAX: (580) 762-4117	6/20/14	DRAWN	SML	PRO465	6/20/14
		CHECKED	SML	MATERIAL: AL 356.2	6/20/14
		SHOP		LOWER FORK	
				DRAWING NO.	2021XX-01
				REV.	1
DIMENSIONS ARE IN INCHES		SCALE: 1:4	WEIGHT:	SHEET 1 OF 1	

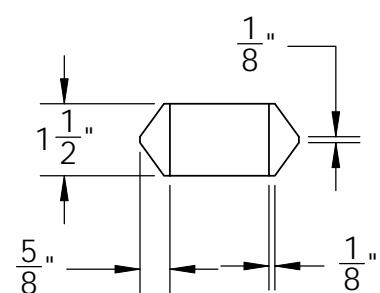


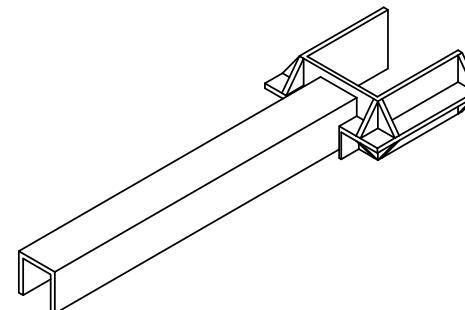
PRO 465-5
MATERIAL: AL 356.2

CUSTOM MECHANICAL EQUIPMENT		PROPRIETARY AND CONFIDENTIAL		DESCRIPTION	
NAME	DATE	DRAWN	SML	NAME	DATE
2101 HALL BLVD. PONCA CITY, OK 74601 PHONE: (580) 762-4114 FAX: (580) 762-4117		DRAWN 6/20/14	SML 6/20/14	PRO425-5 MATERIAL: AL 356.2	
		CHECKED 6/20/14		UPPER FORK	
		SHOP		DRAWING NO. 2021XX-01	REV. □
DIMENSIONS ARE IN INCHES		SCALE: 1:4	WEIGHT:		SHEET 1 OF 1



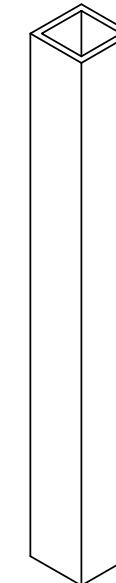
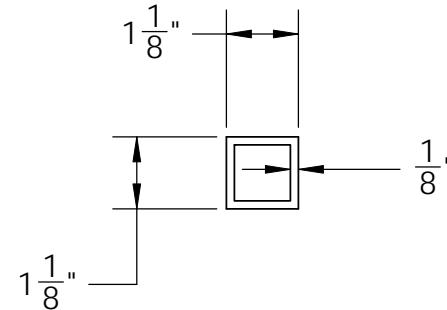
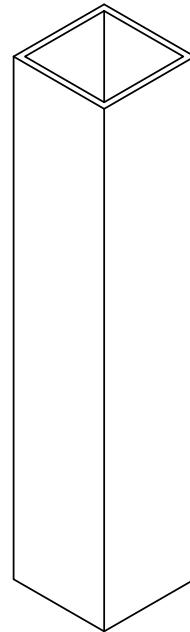
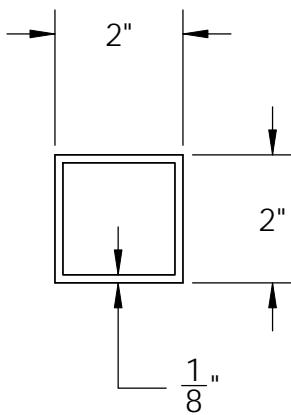






PRO 425-5
MATERIAL: AL 356.2

CUSTOM MECHANICAL EQUIPMENT		PROPRIETARY AND CONFIDENTIAL		NAME		DATE		DESCRIPTION	
2101 HALL BLVD. PONCA CITY, OK 74601 PHONE: (580) 762-4114 FAX: (580) 762-4117		THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE SOLE PROPERTY OF CUSTOM MECHANICAL EQUIPMENT. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CUSTOM MECHANICAL EQUIPMENT IS PROHIBITED.		DRAWN		SML		SCREENING TUBES MATERIAL: 6063-T52	
		CHECKED		SML		6/20/14			
		SHOP						DRAWING NO. 2021XX-01	
		DIMENSIONS ARE IN INCHES		REV. <input type="checkbox"/>		SCALE: 1:3		WEIGHT:	
		SHEET 1 OF 1							

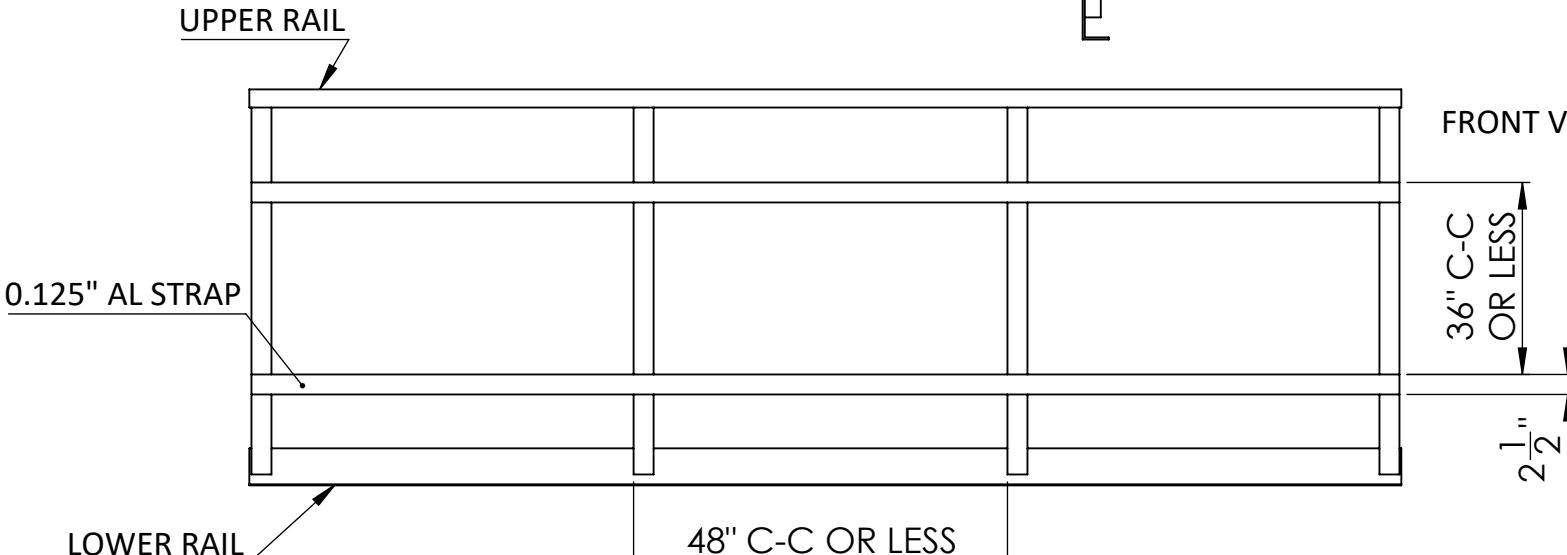


TOP AND BOTTOM TUBES

MATERIAL: 6063-T52

CROSSMEMEBER TUBES

C	T	CHANICAL	IP	NT	DESCRIPTION	NAME	DATE	PROPRIETARY AND CONFIDENTIAL
2101 HALL BLVD. PONCA CITY, OK 74601 PHONE: (580) 762-4114 FAX: (580) 762-4117					WALL FRAME	JLW	3/31/2022	THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE SOLE PROPERTY OF CUSTOM MECHANICAL EQUIPMENT. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CUSTOM MECHANICAL EQUIPMENT IS PROHIBITED.
<p>NOTE: -STANDARD SIDING IS 26 GAUGE STEEL - STANDARD ATTACHMENT IS 3/8" HEX WASHER HEAD ZINC 14X1 I.T.C 63198-0314</p>								



FRONT VIEW

UPPER RAIL

LOWER RAIL

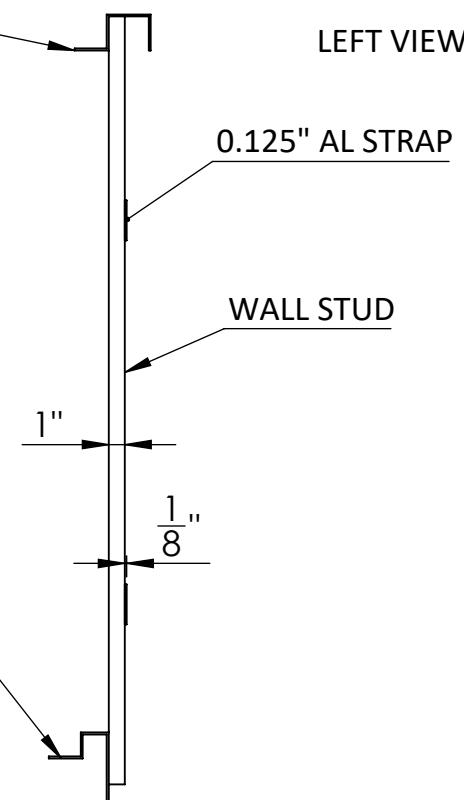
0.125" AL STRAP

48" C-C OR LESS

36" C-C OR LESS

2024EM01

O



LEFT VIEW

UPPER RAIL

WALL STUD

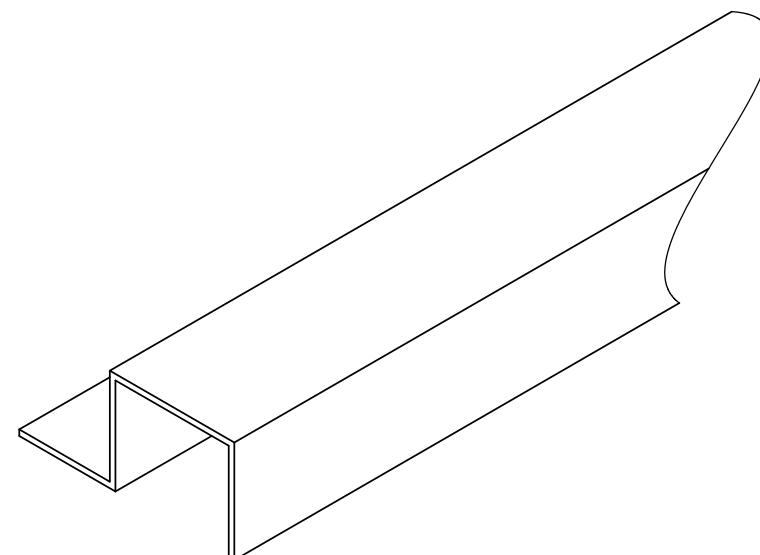
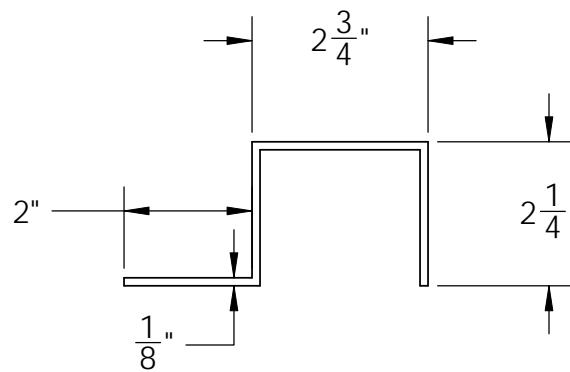
0.125" AL STRAP

1"

1/8"

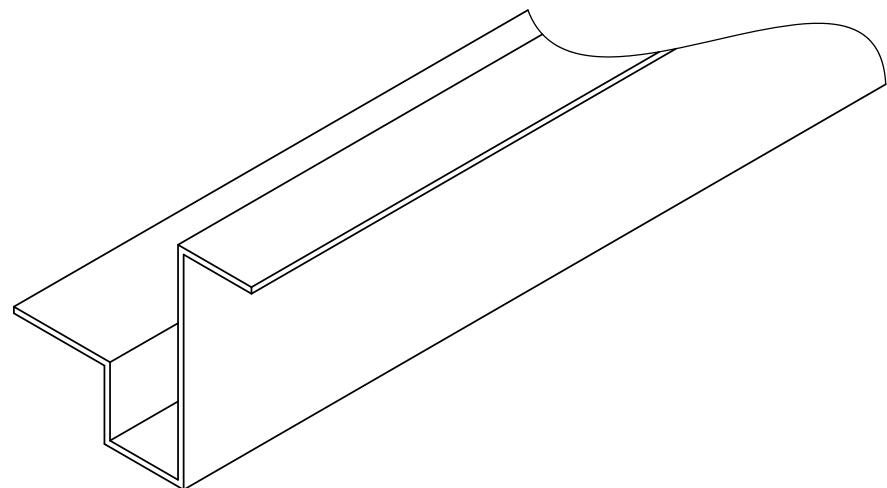
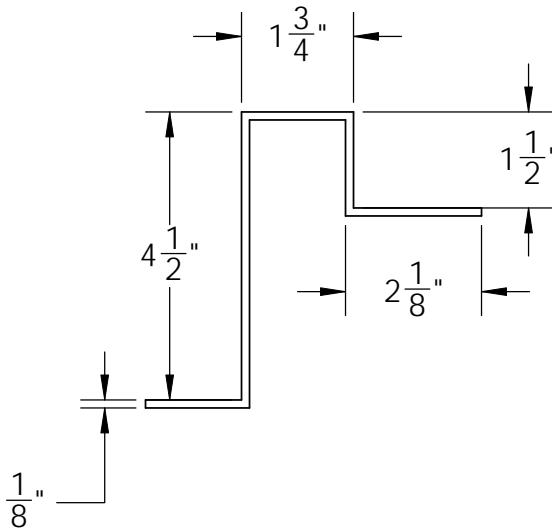
1"

CUSTOM MECHANICAL EQUIPMENT		PROPRIETARY AND CONFIDENTIAL		DESCRIPTION	
NAME	DATE	DRAWN	SML	NAME	DATE
2101 HALL BLVD. PONCA CITY, OK 74601 PHONE: (580) 762-4114 FAX: (580) 762-4117		DRAWN	SML	6/20/14	UPPER RAIL
		CHECKED	SML	6/20/14	MATERIAL: 6005-T5
		SHOP			DRAWING NO. 2021XX-01 REV. <input type="checkbox"/>
DIMENSIONS ARE IN INCHES		SCALE: 1:3	WEIGHT:		SHEET 1 OF 1



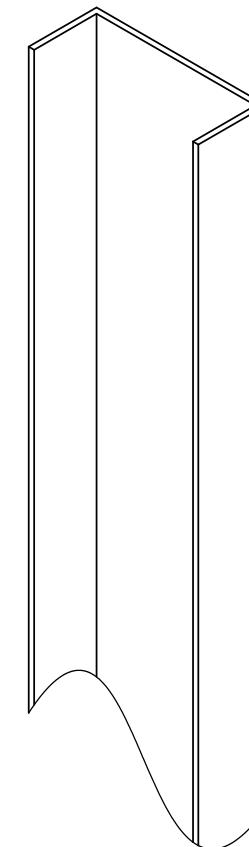
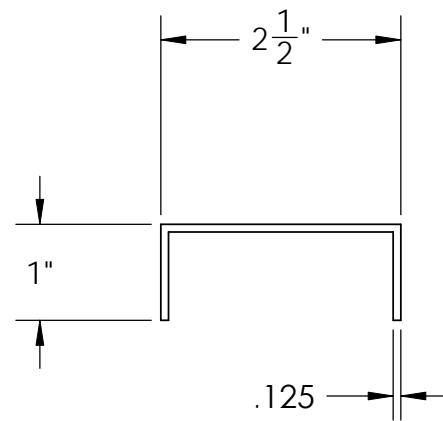
UPPER RAIL
MATERIAL: 6005-T5

CUSTOM MECHANICAL EQUIPMENT		PROPRIETARY AND CONFIDENTIAL		NAME	DATE	DESCRIPTION
2101 HALL BLVD. PONCA CITY, OK 74601 PHONE: (580) 762-4114 FAX: (580) 762-4117		THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE SOLE PROPERTY OF CUSTOM MECHANICAL EQUIPMENT. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CUSTOM MECHANICAL EQUIPMENT IS PROHIBITED.	PROPRIETARY AND CONFIDENTIAL			
DRAWN	SML	6/20/14	LOWER RAIL			
CHECKED	SML	6/20/14	MATERIAL: 6005-T5			
SHOP				DRAWING NO.	2021XX-01	REV. <input type="checkbox"/>
DIMENSIONS ARE IN INCHES		SCALE: 1:3	WEIGHT:			SHEET 1 OF 1



LOWER RAIL
MATERIAL: 6005-T5

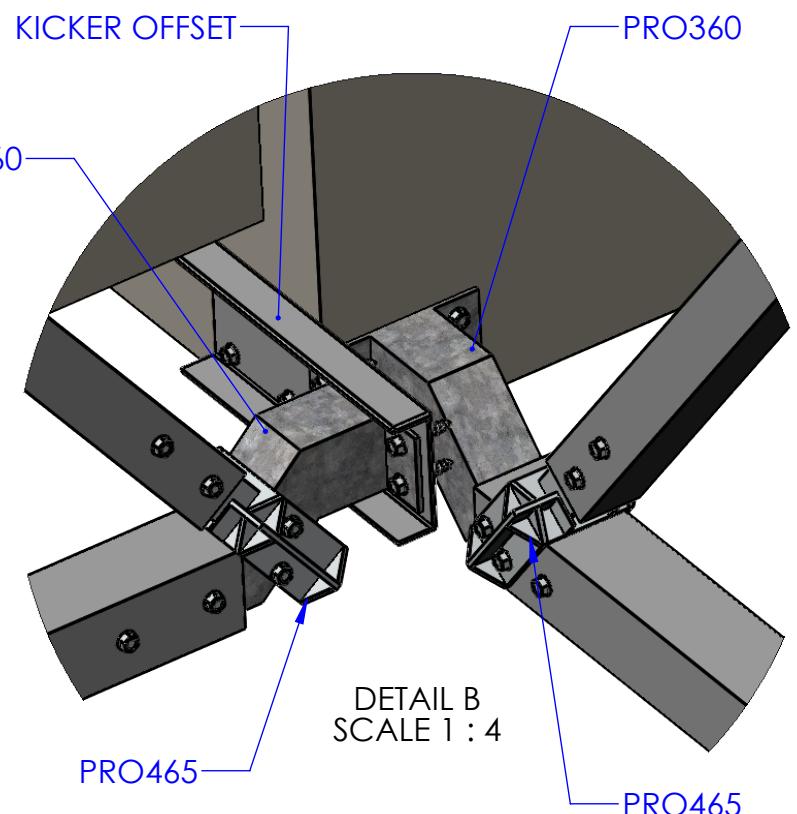
CUSTOM MECHANICAL EQUIPMENT		PROPRIETARY AND CONFIDENTIAL		DESCRIPTION	
NAME	DATE	.125 C CHANNEL MATERIAL: 6061-T6			
2101 HALL BLVD. PONCA CITY, OK 74601 PHONE: (580) 762-4114 FAX: (580) 762-4117		DRAWN CHECKED SHOP	SML SML SML	0.080" C CHANNEL MATERIAL: 3003-H14 DRAWING NO. 2021XX-01 REV. <input type="checkbox"/>	
THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE SOLE PROPERTY OF CUSTOM MECHANICAL EQUIPMENT. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CUSTOM MECHANICAL EQUIPMENT IS PROHIBITED.		DIMENSIONS ARE IN INCHES	SCALE: 1:2	WEIGHT:	SHEET 1 OF 1



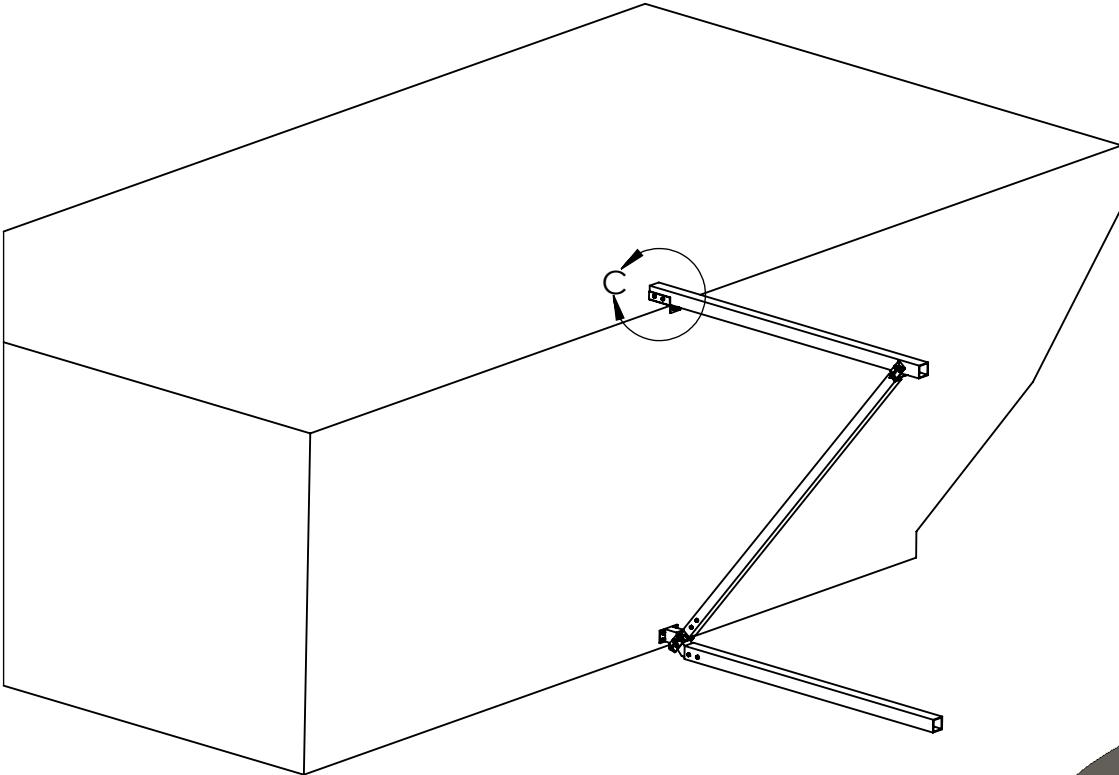
.125 C CHANNEL
MATERIAL: 6061-T6

CUSTOM MECHANICAL EQUIPMENT 2101 HALL BLVD. PONCA CITY, OK 74601 PHONE: (580) 762-4114 FAX: (580) 762-4117					KICKER OFFSET ALLOWS CROSS BRACE TO INSTALL WHERE UNIT HOOD OR DISCONNECT CAUSES CLEARANCE INTERFERENCE
	PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE SOLE PROPERTY OF CUSTOM MECHANICAL EQUIPMENT. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CUSTOM MECHANICAL EQUIPMENT IS PROHIBITED.	NAME: DRAWN JLW 4/27/2019	DATE: CHECKED JLW 7/8/2021	DESCRIPTION: KICKER OFFSET DETAIL	
	SHOP			DRAWING NO.: 2021XX-01	REV. O
	DIMENSIONS ARE IN INCHES	SCALE: 1:24	WEIGHT:		SHEET 1 OF 2

INSTALL KICKER OFFSET WITH (4) 3/8" SELF-TAPPING SCREWS
 INSTALL PRO360 WITH (4) 3/8" SELF-TAPPING SCREWS
 ALL TUBES REQUIRE (3) 3/8" SELF-TAPPING SCREWS
 PRO465 REQUIRE (3) 3/8" SELF-TAPPING SCREWS
 ALL TUBES ADJUST TO LEVEL AND PLUMB SCREEN WALL



CUSTOM MECHANICAL EQUIPMENT 2101 HALL BLVD. PONCA CITY, OK 74601 PHONE: (580) 762-4114 FAX: (580) 762-4117	DESCRIPTION				
	PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE SOLE PROPERTY OF CUSTOM MECHANICAL EQUIPMENT. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CUSTOM MECHANICAL EQUIPMENT IS PROHIBITED.	NAME DRAWN CHECKED SHOP	DATE JLW 4/27/2019 JLW 7/8/2021	DRAWING NO. 2021XX-01	SCALE 1:24 WEIGHT REV. O SHEET 1 OF 2

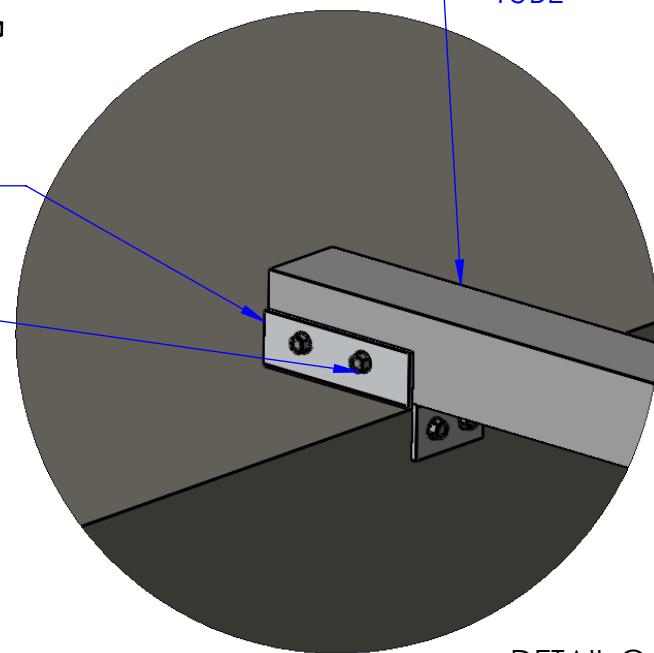


SADDLE MOUNT ADDS
ADDITIONAL SUPPORT
FOR SCREEN WALL ON
UNITS OVER 108" LONG

INSTALL SADDLE MOUNT AS SHOWN IN DETAIL C
INSURE UNIT ACCESS DOORS ARE NOT IMPEDED
BY PLACEMENT OF CROSS BRACE

TWO 3/8" SELF-TAPPING SCREWS INTO THE FACE OF THE UNIT
INSTALL TUBE TO SADDLE WITH 3 SELF TAPPING SCREWS

2"X2" ALUMINUM
TUBE

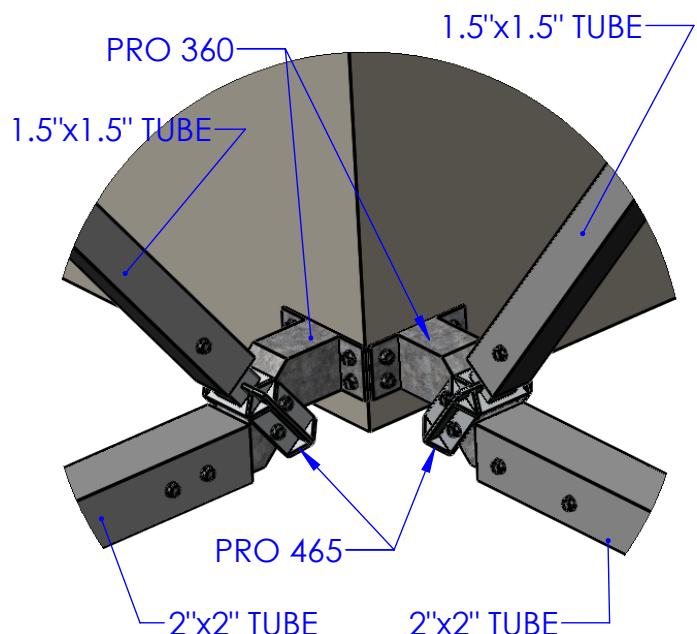
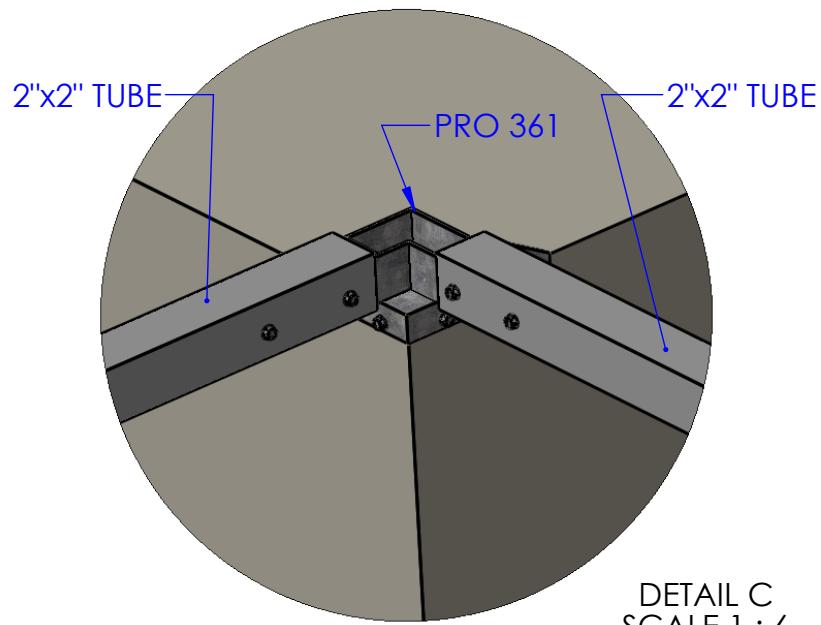
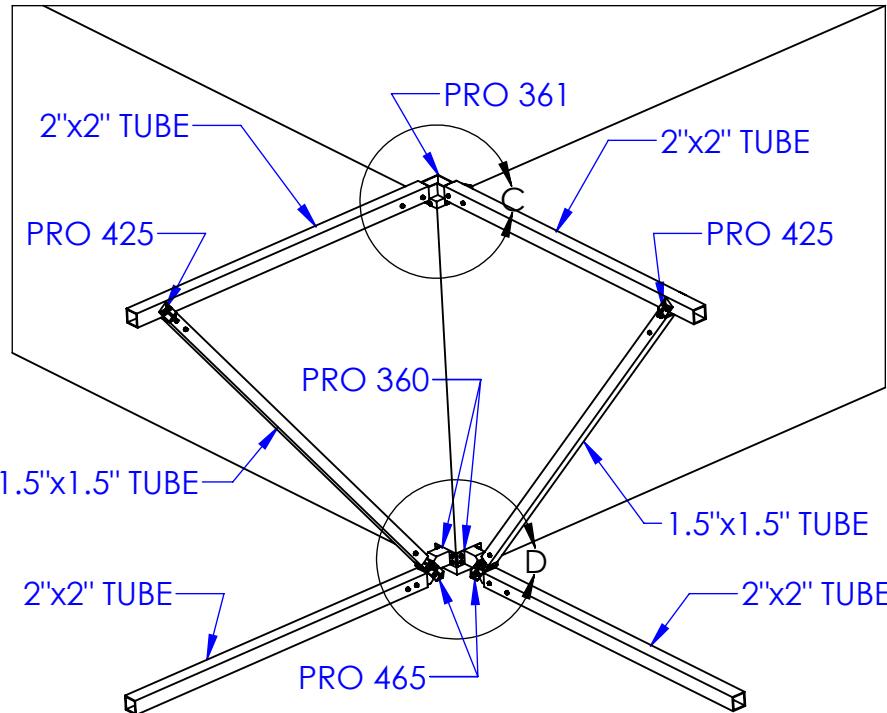


SADDLE
MOUNT

3/8" SELF-TAPPING
SCREWS

DETAIL C
SCALE 1 : 4

CUSTOM MECHANICAL EQUIPMENT 2101 HALL BLVD. PONCA CITY, OK 74601 PHONE: (580) 762-4114 FAX: (580) 762-4117	PRO 361 ATTACH TO THE TOP OF UNIT WITH (4) SELF-TAPPING SCREWS, 2 PER SIDE, INTO THE FACE OF THE UNIT INSTALL PRO 360 TO BASE OF UNIT (4) 3/8" SELF-TAPPING SCREWS THE PRO 360 IS TYPICALLY ALIGNED WITH THE TOP EDGE OF THE BASE, DIRECTLY BELOW THE ARMS OF THE PRO 361 ALL TUBES REQUIRE (3) 3/8" SELF-TAPPING SCREWS, 2 ON ONE SIDE AND 1 ON THE OPPPOSING SIDE PRO 425 & PRO 465 REQUIRE (3) 3/8" SELF-TAPPING SCREWS 2 ON ONE SIDE AND 1 ON THE OPPPOSING SIDE ALL TUBES MAY REQUIRE ADJUSTMENT TO LEVEL AND PLUMB SCREEN WALL			
	PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE SOLE PROPERTY OF CUSTOM MECHANICAL EQUIPMENT. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CUSTOM MECHANICAL EQUIPMENT IS PROHIBITED.	DRAWN JLW 4/27/2019	NAME JLW	DATE 4/27/2019
	DRAWN JLW 4/27/2019	NAME JLW	DATE 4/27/2019	DESCRIPTION TYPICAL MOUNT DETAIL
	CHECKED JLW 7/8/2021			
	SHOP			
	DIMENSIONS ARE IN INCHES	SCALING NO. 2021XX-01	SCALE: 1:24	WEIGHT:
			REV. O	REV. O
			SHEET 1 OF 2	SHEET 1 OF 2



CUSTOM MECHANICAL EQUIPMENT	
PROPRIETARY AND CONFIDENTIAL	
2101 HALL BLVD. PONCA CITY, OK 74601 PHONE: (580) 762-4114 FAX: (580) 762-4117	THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE SOLE PROPERTY OF CUSTOM MECHANICAL EQUIPMENT. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CUSTOM MECHANICAL EQUIPMENT IS PROHIBITED.
NAME	DATE
JLW	7/8/2021
DRAWN	CHECKED
JLW	7/8/2021
SHOP	
DIMENSIONS ARE IN INCHES	
SCALE: 1:10 WEIGHT: 0	
DRAWING NO. 2021XX-01 REV. O	
SHEET 1 OF 1	

EACH JACKSTAND IS TO BE PLACED ON THE SCREEN WALL OR FRAMEWORK AS DETAILED IN THAT SPECIFIC UNITS SCREENING DRAWING ONLY CHANGING LOCATION ALONG THE SAME WALL WHEN OBSTRUCTIONS ARE PRESENT IN THE SPECIFIED POSITION

THE JACKSTAND SHOULD BE LOADED WITH 20 - 150 LBS OF THE WALLS WEIGHT. TO LEVEL THE SCREEN WALL, AND BALANCE THE LOAD ON THE UNIT CREATED BY VARRIYING OFFSETS OR FOR SCREENS WITH LESS THAN 4 SIDES.

ALL JACKSTAND MATERIAL 6063-T52 ALUMINUM TUBE AND PLATE

USE (2) 3/8" SELF TAPPING SCREWS TO ATTACH MOUNTING BLOCK TO FRAMEWORK OR LOWER RAIL
USE (2) 3/8" SELF TAPPING SCREWS TO SET SLIDING COLLAR IN PLACE ON THE JACKSTAND

EACH JACKSTAND IS TO BE PLACED
ON THE SCREEN WALL OR FRAMEWORK
AS DETAILED IN THAT SPECIFIC
UNITS SCREENING DRAWING
ONLY CHANGING LOCATION ALONG THE
SAME WALL WHEN OBSTRUCTIONS ARE
PRESENT IN THE SPECIFIED POSITION

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ALL JACKSTAND MATERIALI 6063-T52
ALUMINUM TUBE AND PLATE

— SLIDING COLLAR AND MOUNTING BLOCK

—9/16" FIBER REINFORCED
EPDM PAD

USE (2) 3/8" SELF TAPPING SCREWS TO
ATTACH MOUNTING BLOCK TO FAMEWORK
OR LOWER RAIL
USE (2) 3/8" SELF TAPPING SCREWS TO
SET SLIDING COLLAR IN PLACE ON THE
JACKSTAND