

Alice Shaw

SFO International Terminal ,  
Boarding Area G, Gate 95

*No Other Lands Their Glory Know*

37'

20'

15'

46'



G96

11:50

OSAKA  
FLIGHT 08  
DEPARTS 11:55AM

Duty Free  
Pick-up

EXIT

Information  
Board



# *SFO // Shaw// No Other Lands Their Glory Know*

- Printed photographic mural
- Gesso is applied to the  $\frac{3}{4}$ " apple ply (specialty plywood)
- Image is printed on top
- Panels it is then coated with a uv protecting matte varnish to cut down on the reflection
- Gold leaf is hand applied by the artist
- 20' x 26' plywood panels
- Plywood panel supported by an aluminum frame
- 6 z-clip cleats per panel



# Structural Narrative and Design Criteria

## Alice Shaw SFO Installation



San Francisco International Airport  
San Francisco, CA

Version 1.0 / May 23, 2017  
Job # 17124.10

May 23, 2017

Tallulah Terryll  
Magnolia Editions  
2527 Magnolia St.  
Oakland, CA 94607

**17124.10 Alice Shaw SFO Mural Installation  
San Francisco International Airport, San Francisco, CA**

Tallulah,

We have examined the structural issues related to the permanent installation of the mural by the artist Alice Shaw at Gate G95 in the International Terminal of the San Francisco International Airport (SFO). Please see below for a summary of our review and recommendations.

**Scope of Review**

Our review has been limited to the following scope:

- Structural consultation with the Artist and Fabricator for the sculpture including 2 design meetings and 1 site visits including a design coordination meeting and structural observation of the sculpture.
- Perform structural calculations to determine the gravity, wind, and seismic demands on the sculptures and base.
- Coordinate with the Artist and Fabricator to determine structural element sizes and geometry.
- Coordinate with the Artist and Fabricator to determine structural element connections.
- Prepare structural narrative summarizing our findings.
- Coordinate with SFO's Building Inspection and Code Enforcement (BICE) Department during Agency Review and responds to questions (assumed one round of questions/comments)

Please note, that we have not included an evaluation of the existing light gauge metal stud wall supporting the mural in our scope of services. We have provided the anchorage reactions in this report for use by the buildings' Structural Engineer of Record (SEOR).

## **Structural Criteria**

### Seismic Design Criteria (2016 San Francisco Building Code)

$$S_s = 2.03g$$

$$S_1 = 0.96g$$

$$S_{ds} = 1.35g$$

$$S_{d1} = 0.96g$$

$$I_p = 1.0$$

$$a_p = 2.5 \text{ ("Appendages and Ornamentations" per Table 13.5-1 of ASCE 7-10)}$$

$$R_p = 2.5 \text{ ("Appendages and Ornamentations" per Table 13.5-1 of ASCE 7-10)}$$

$$z/h = 0.5 \text{ (Conservatively assumed halfway up the height of building)}$$

$$F_p = 1.08g \times W_p \text{ [per EQ 13.3-1 of ASCE 7-10]}$$

### Wind Design Criteria (2016 San Francisco Building Code)

Interior Wind Pressure: 5 psf

## **Structure Description:**

The proposed project is a permanent installation of a printed photographic mural by Alice Shaw (Artist) at San Francisco International Airport (SFO). The photograph will be printed on plywood panels and assembled into a 20'-0" x 26'-0" mural to be installed at Gate G95 in the International Terminal at SFO. The plywood panels will be supported on an aluminum frame using (6) z-clip cleats per panel. All of the vertical load bearing will occur through the upper three z-clips/cleats. The clips will bear on continuous aluminium channels that are screwed to horizontal aluminium tubes. The horizontal tubes are supported with angle brackets that are screwed to vertical aluminium tubes. The aluminium tubes are finally supported by (4) continuous aluminium channels that are anchored to the existing light-gauge metal stud wall with sheet metal screws.

Refer to Appendix A for drawings used as the basis of our design. Evaluation and design of the existing structure for the imposed loads as presented in this narrative are the responsibility of the building SEOR. See below for the calculated support reactions based on the criteria outlined above.

## **Support Reactions of Mural:**

The following loads (unfactored LRFD) can be used to evaluate the existing supporting structure:

### Total Dead Load

$$P = 2,340 \text{ lbf. (Vertical Force)}$$

### Live Load

$$P = 0 \text{ lbf. (Vertical Force)}$$

Wind Load

\*Seismic Governs, see below

Seismic Load (V and T do not occur simultaneously)

V = 2,530 lbf. (Shear force in-plane of wall/mural)

T = 2,530 lbf. (Tension force out-of-plane of wall/mural)

Omega = 2.5 (Over strength Factor)

**Design Assumptions:**

Our recommendations are based on the following assumptions:

- The mural will be a permanent installation, and will be required to meet the structural criteria of the 2016 San Francisco Building Code.
- The mural will not be used to support people; The Artist shall work with the Owner to develop a climbing deterrence plan.

We also take this opportunity to make the following additional recommendations concerning the installation:

- The condition of all connecting hardware (bolts etc.) should be reviewed by the artist and confirmed to be in good condition prior to installation, or replaced.
- Capacity of the existing building based on the imposed loads presented above in this narrative, are to be verified and approved by the building SEOR.

This design is based on the typical conditions and assumptions outlined above. Any future installation's site conditions that do not meet the above criteria will require re-evaluation by an engineer licensed in the local jurisdiction.

**Conclusions**

Based on the above criteria and assumptions, we have concluded that the mural and its anchorage outlined in Appendix A meets the strength and stability structural design requirements of the San Francisco Building Code. Refer to Appendix B for detailed structural calculations.

We appreciate the opportunity to be of service. Please contact us if have any questions or require additional information.

Thank you,

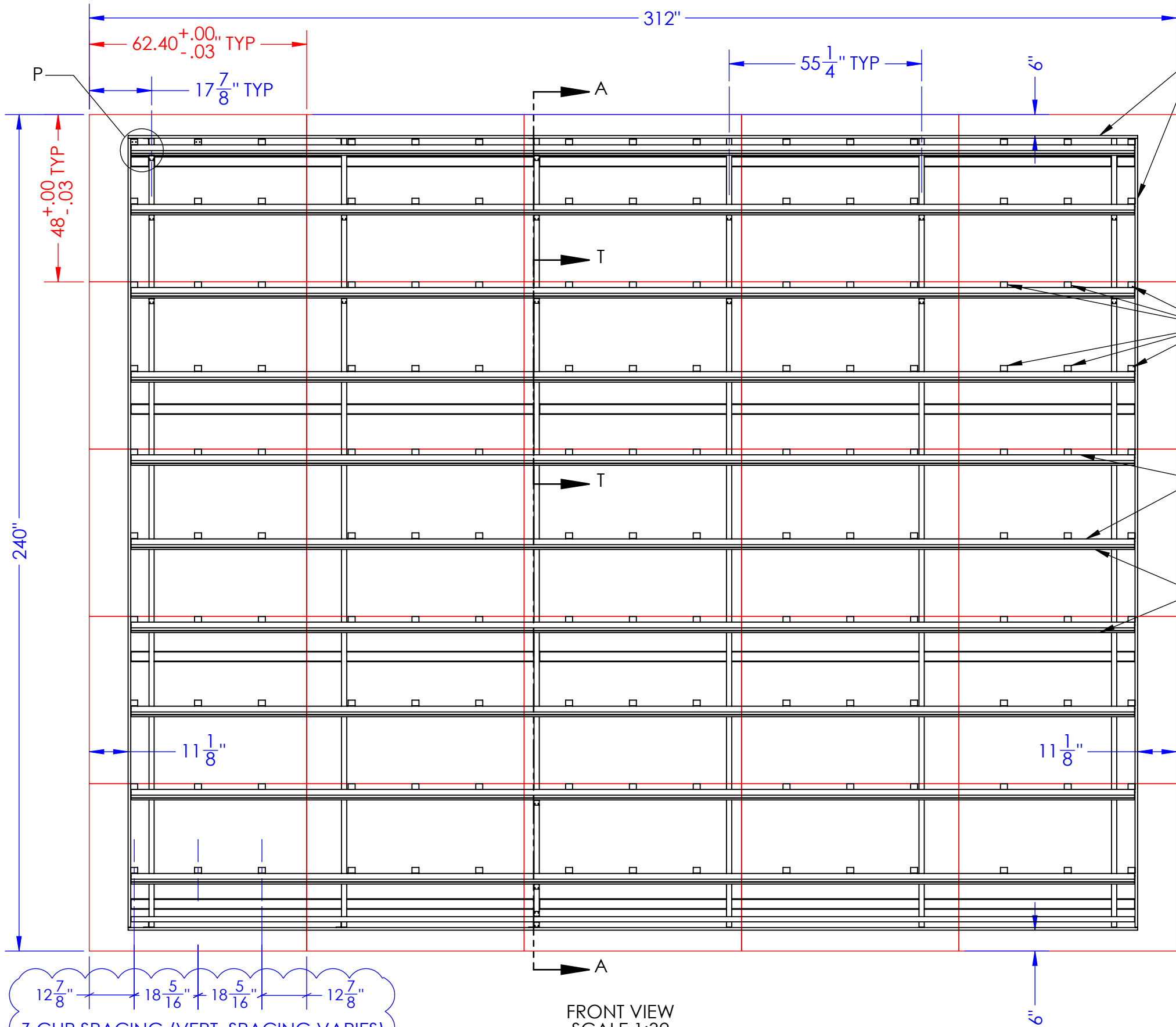


Erik Kneer, SE, LEED AP BD+C  
ASSOCIATE PRINCIPAL

# APPENDIX A:

## BASIS OF DESIGN AND STRUCTURAL SKETCHES





3/4"x6-3/16" PLYWOOD BORDER BTWN BACK OF ART PANEL & WALL (4-SIDES). INSTALLED BORDER LOCKS- IN TOP AND SIDE PANELS. PAINT VISABLE FACES/EDGES w/ BLACK SEMI-GLOSS PAINT.

PLYWOOD ART PANELS

(QTY 6) 2" ALUMINUM Z-CLIPS SCREWED TO EA. ART PANEL. (QTY 2) SCREW @ EA. Z-CLIP

CONTINUOUS ALUMINUM Z-BAR FASTENED TO HOR. TUBES w/ #8x3/4" ZINC PLATED HEX WASHER HEAD SCREWS 12" O.C.

1-1/2"x1-1/2"x1/8" AL HOR. TUBES

**GENERAL NOTES:**

1. ALL TUBE TO BE 1-1/2"x1-1/2"x1/8", 6063-T52 ALUMINUM U.O.N.
2. ALL FASTENERS TO BE #10x3/4" HEX WASHER HEAD, ZINC PLATED STEEL, SELF-DRILLING SCREWS U.N.O.
3. INSTALL BY OTHERS
4. PLYWOOD ART PANELS BY OTHERS
5. ALL ANGLE TO BE 1-1/2"x1-1/2"x1/8" 6063-T52 ALUMINUM U.O.N.
6. ALL DIMENSIONS REPRESENT FINISHED DIMENSIONS

**OVERVIEW**

REVISION	DATE
-	5/9/2017

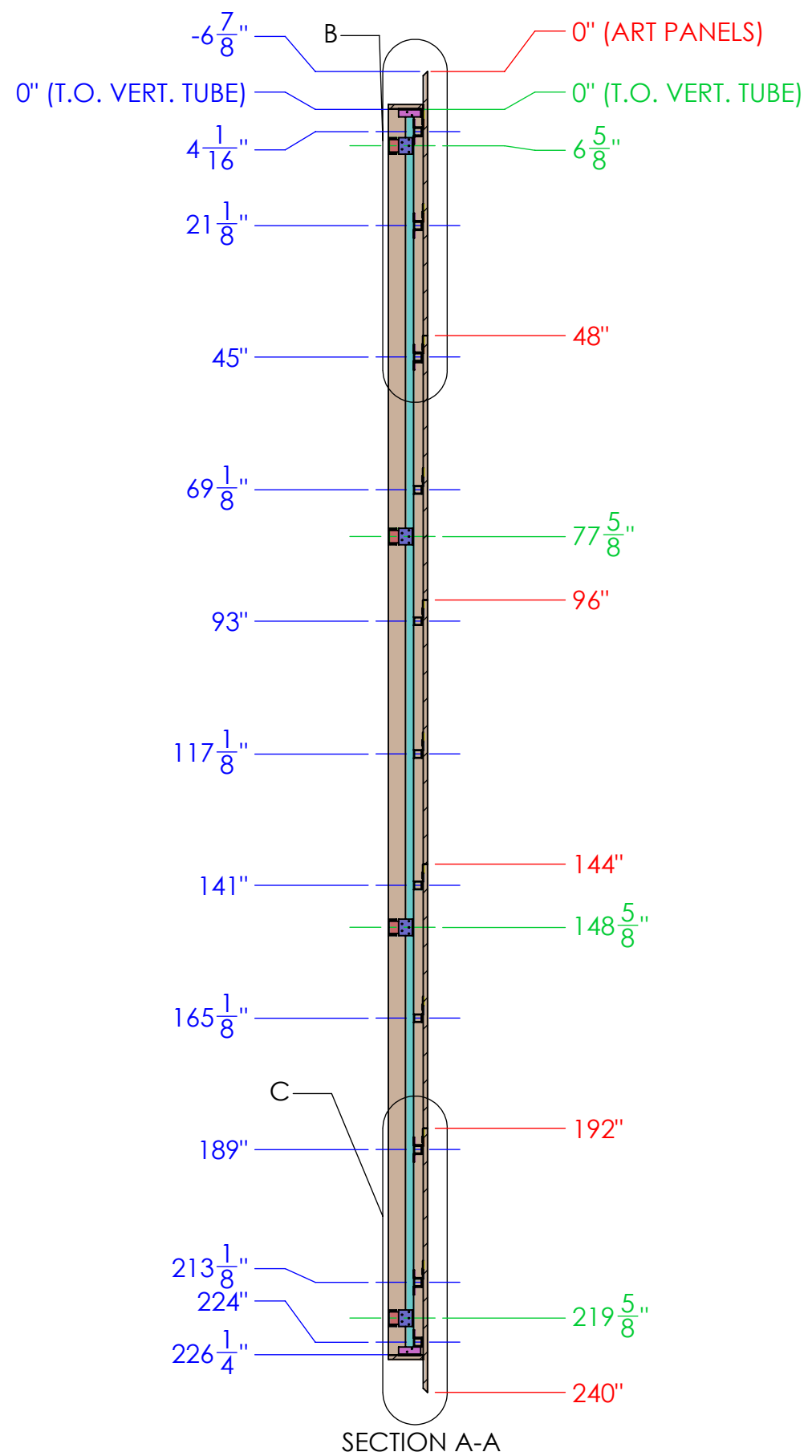


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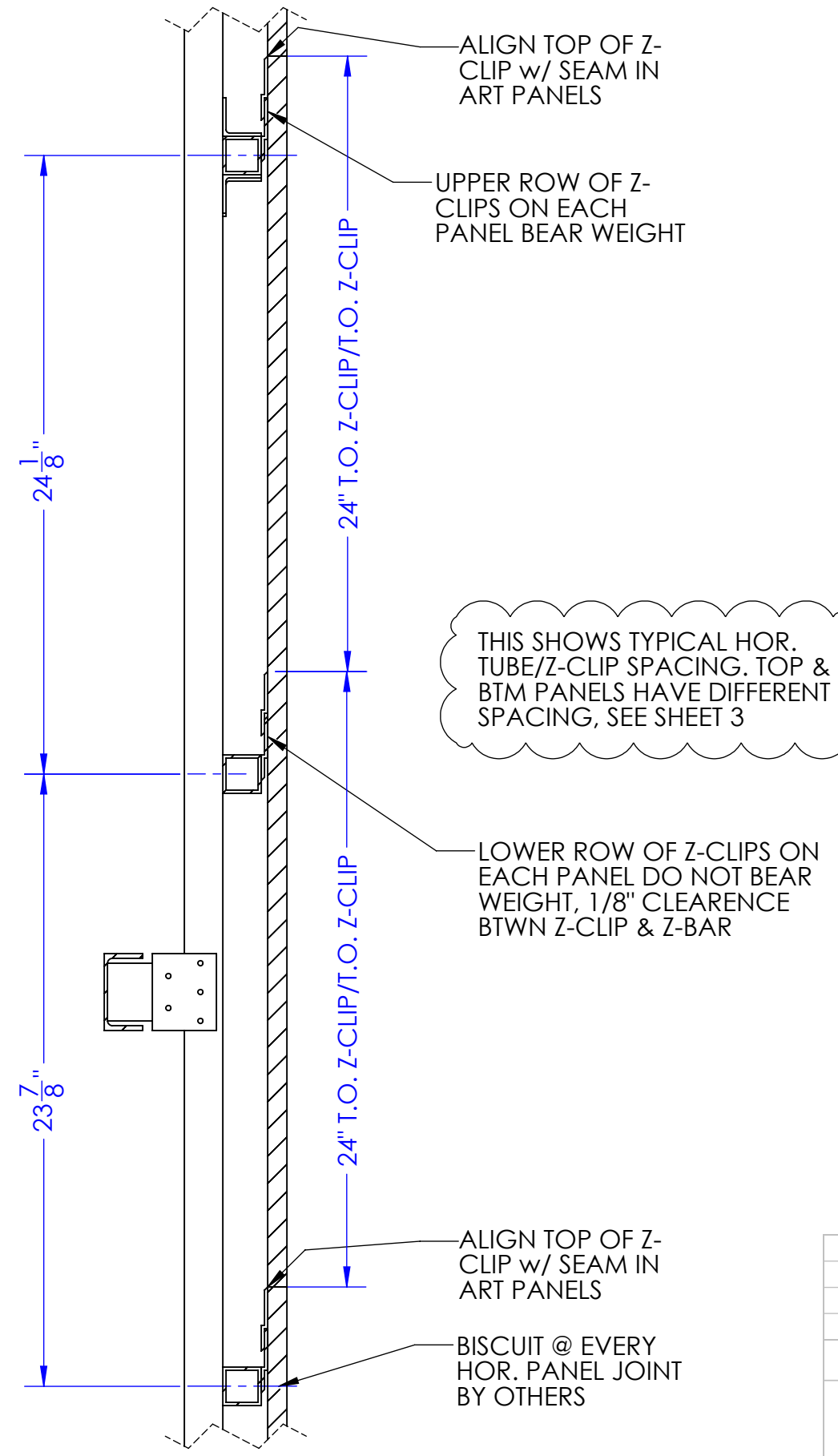
**PROJECT:**  
 Artwork Mounting Assembly  
 ALICE SHAW/SFO  
 SCALE: 1:32    SIZE **B**    SHEET 1 OF 5

12 7/8"    18 5/16"    18 5/16"    12 7/8"  
 Z-CLIP SPACING (VERT. SPACING VARIES)

FRONT VIEW  
 SCALE 1:32



SECTION A-A



SECTION T-T  
SCALE 1 : 6

THIS SHOWS TYPICAL HOR. TUBE/Z-CLIP SPACING. TOP & BTM PANELS HAVE DIFFERENT SPACING, SEE SHEET 3

**SECTIONS**

REVISION	DATE
-	5/9/2017



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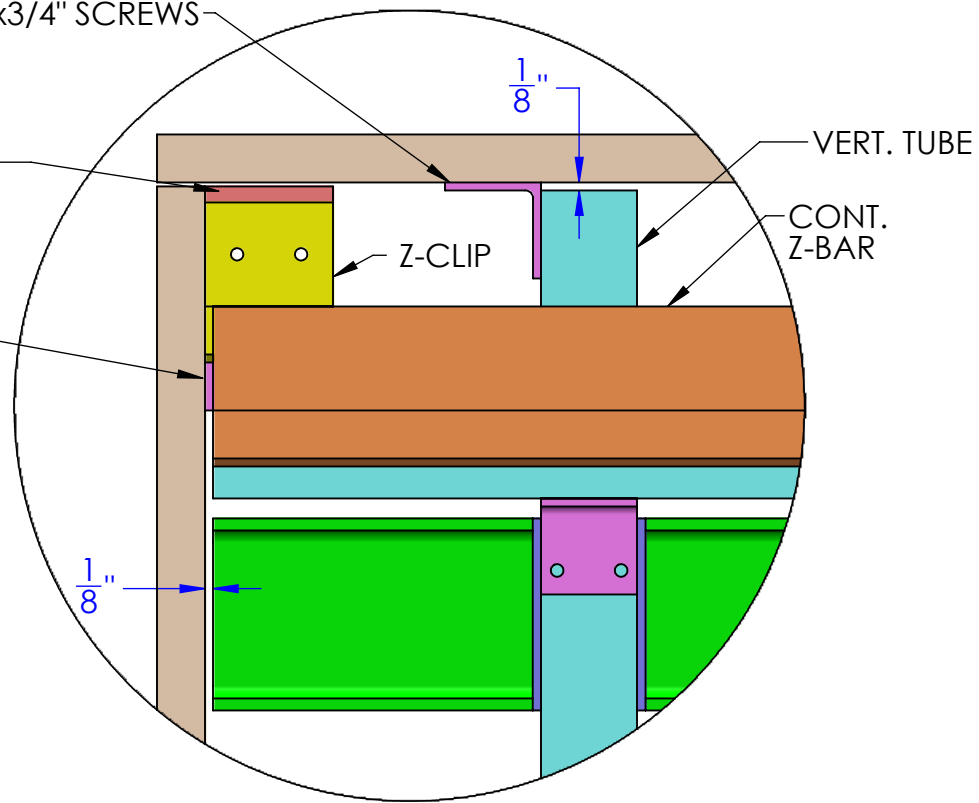
**PROJECT:**  
Artwork Mounting Assembly  
  
ALICE SHAW/SFO  
  
SCALE: 1:28    SIZE **B**    SHEET 2 OF 5



1-1/2"x1-1/2"x1/8"x4" LONG  
ANGLE BRKT FASTENED TO VERT.  
TUBE w/ (QTY 2) #10x3/4" SCREWS

BORDER STOP  
ADDED TO TOP  
ROW OF Z-CLIPS

PLY BORDER  
SCREWED TO  
ANGLE w/ F/H SELF  
DRILLING SCREWS



DETAIL P  
(ART PANELS NOT SHOWN FOR CLARITY)  
SCALE 1 : 3

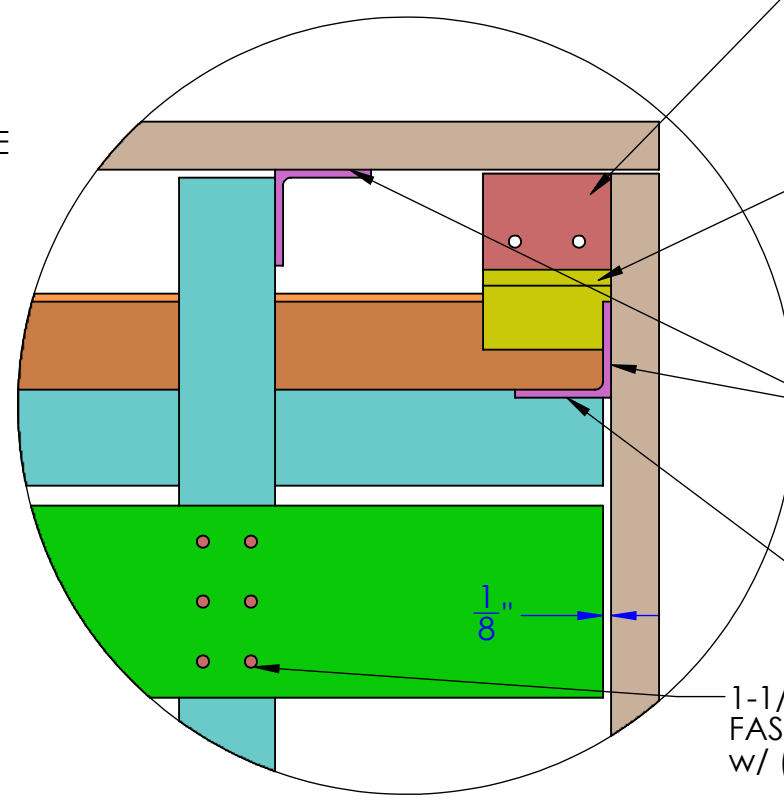
AL FLAT BAR VHB  
TAPED TO TOP ROW  
OF Z-CLIPS

2" LONG  
Z-CLIP

PLY BORDER  
SCREWED TO  
ANGLE w/ F/H SELF  
DRILLING SCREWS

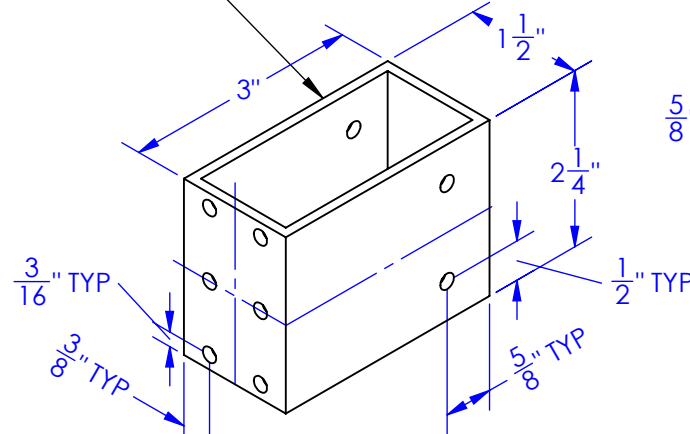
1-1/2"x1-1/2"x1/8"x3" LONG AL  
ANGLE BRKT FASTENED TO  
HOR. TUBE w/ (QTY 2) SCREWS

1-1/2"x3" AL CHANNEL  
FASTENED TO SPACER TUBE  
w/ (QTY 6) SCREWS



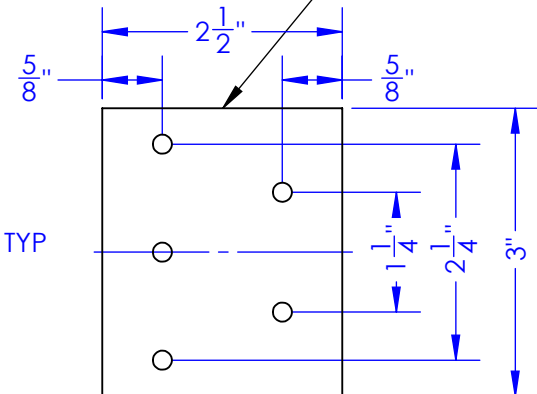
BACK VIEW OF DETAIL P  
(UPPER CORNER @ PLY BORDER  
CONNECTION TO FRAME)  
SCALE 1:3

3"x1-1/2"x1/8"  
6063-T52 AL  
SPACER TUBE



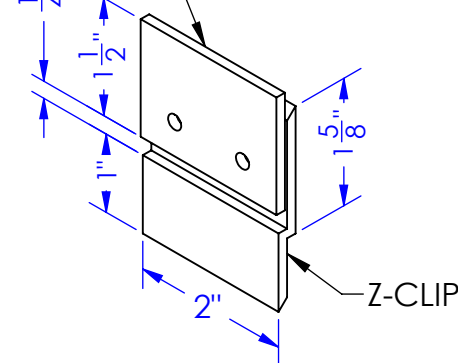
TYPICAL SPACER TUBE  
SCALE 1:2

2-1/2"x3"x1/8"  
6063-T52 AL PLATE



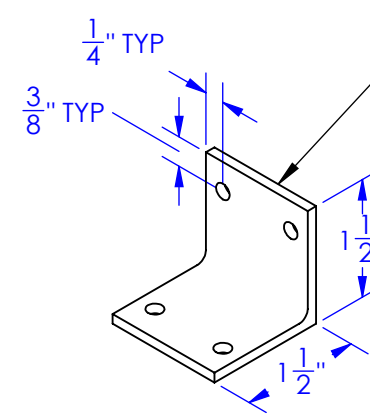
TYPICAL PLATE BRKT  
SCALE 1:2

1/8"x1-1/2"x2" 6063-  
T52 AL FLAT BAR,  
ADDED TO Z-CLIP

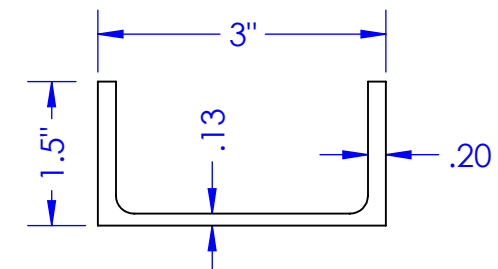


TYPICAL TOP-ROW Z-CLIPS  
SCALE 1:2

1-1/2"x1-1/2"x1/8"x1-1/2"  
LONG ANGLE BRKT



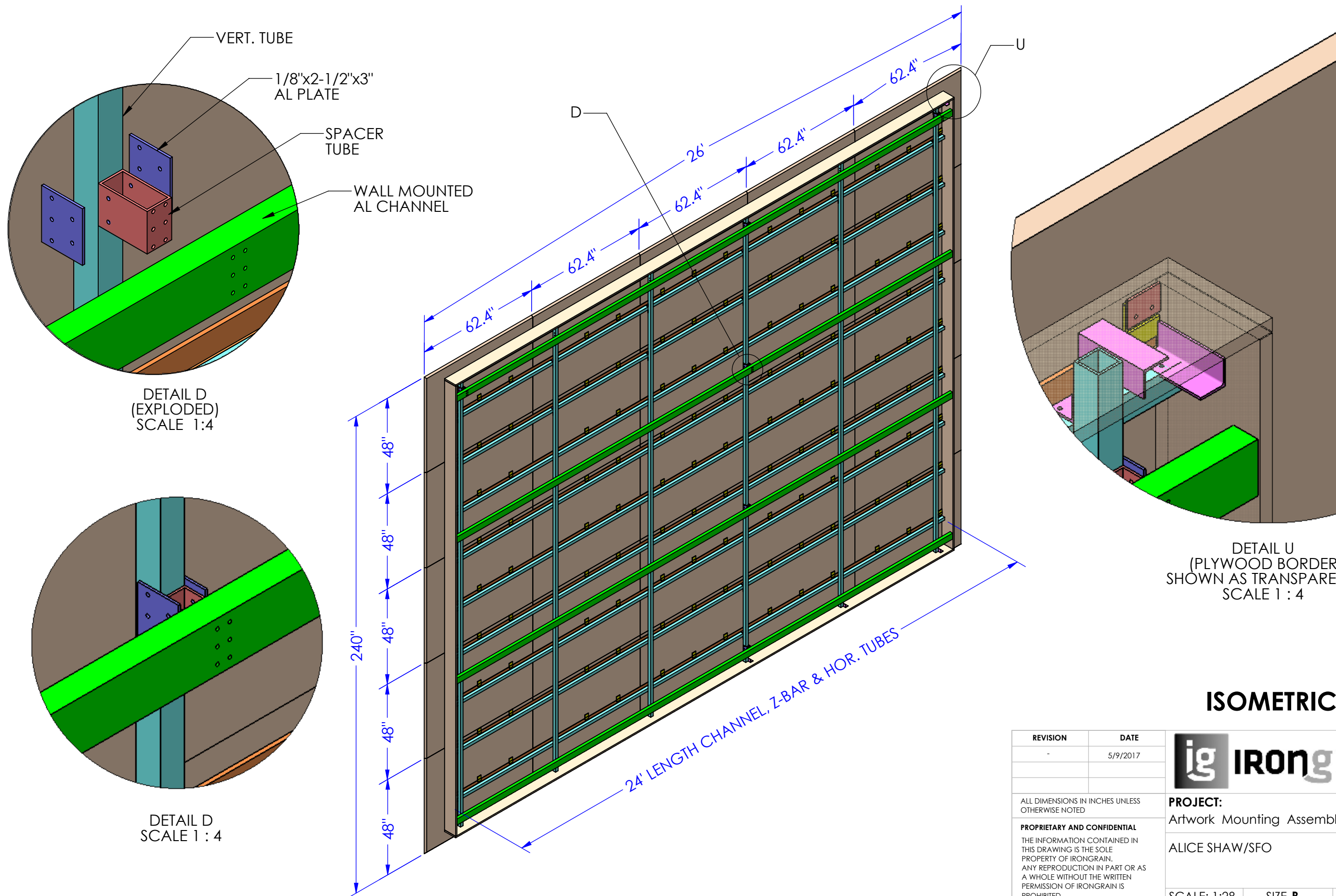
TYPICAL ANGLE BRKT  
SCALE 1:2



CROSS SECTION OF WALL-  
MOUNTED 6061-T6 AL CHANNEL  
SCALE 1:2

## DETAILS 2

REVISION	DATE	ig IRONGRAIN
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ALL DIMENSIONS IN INCHES UNLESS OTHERWISE NOTED		PROJECT: Artwork Mounting Assembly
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SCALE: 1:28		SIZE B
		SHEET 4 OF 5



### ISOMETRIC VIEW

REVISION	DATE
-	5/9/2017

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PROJECT:  
Artwork Mounting Assembly

ALICE SHAW/SFO

SCALE: 1:28    SIZE B    SHEET 5 OF 5

ALL DIMENSIONS IN INCHES UNLESS OTHERWISE NOTED

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# APPENDIX B:

## STRUCTURAL CALCULATIONS

WEIGH UP

Dead Loads

	Gravity	Area	Total Weight
1" Ply Art Panel	3.0 psf	520.0 sf	1560.0 lb
Aluminum Z-bar and Clips	0.3 psf	520.0 sf	130.0 lb
Aluminum Vertical Tubes	0.3 psf	520.0 sf	130.0 lb
Aluminum Horizontal Tubes	0.5 psf	520.0 sf	260.0 lb
Aluminum Channels	0.3 psf	520.0 sf	130.0 lb
Misc. Brackets/Fasteners	0.3 psf	520.0 sf	130.0 lb
			0.0
Total	4.5 psf		2340.0 lb

No Live Loads



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 No: 17124.1  
 By: EK  
 Date: 5/23/17 Page:           

SEISMIC PARAMETERS

**USGS Design Maps Summary** <http://earthquake.usgs.gov/designmaps/us/application.php>

**USGS Design Maps Summary Report**  
**User-Specified Input**

**Report Title** Alice Shaw SFO Installation

**Building Code Reference Document** ASCE 7-10 Standard  
 (which utilizes USGS hazard data available in 2008)

**Site Coordinates** 37.62081°N, 122.37874°W

**Site Soil Classification** Site Class D – “Stiff Soil”

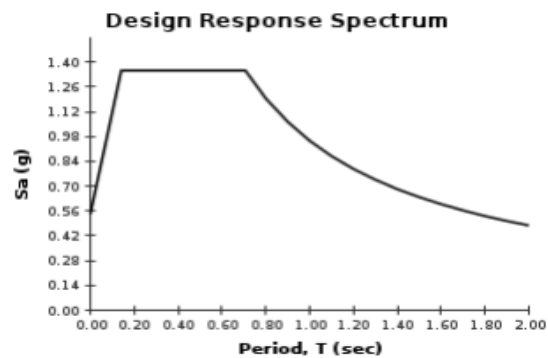
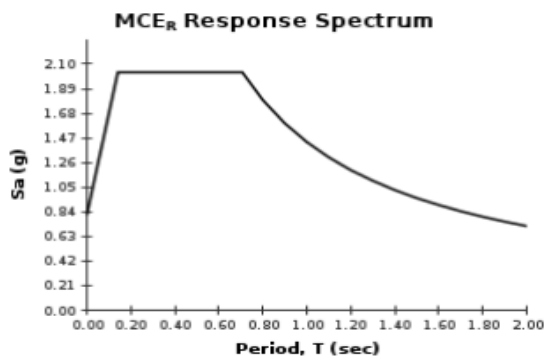
**Risk Category** I/II/III



**USGS-Provided Output**

$S_s = 2.029 \text{ g}$        $S_{M5} = 2.029 \text{ g}$        $S_{D5} = 1.352 \text{ g}$   
 $S_1 = 0.956 \text{ g}$        $S_{M1} = 1.435 \text{ g}$        $S_{D1} = 0.956 \text{ g}$

For information on how the  $S_s$  and  $S_1$  values above have been calculated from probabilistic (risk-targeted) and deterministic ground motions in the direction of maximum horizontal response, please return to the application and select the “2009 NEHRP” building code reference document.



For  $PGA_M$ ,  $T_L$ ,  $C_{RS}$ , and  $C_{R1}$  values, please [view the detailed report](#).

Although this information is a product of the U.S. Geological Survey, we provide no warranty, expressed or implied, as to the accuracy of the data contained therein. This tool is not a substitute for technical subject-matter knowledge.



NONSTRUCTURAL COMPONENT FORCE FOR:

enter component description here

Per Chapter 13, ASCE 7-10

### Input Parameters

Type: APPENDAGES AND ORNAMENTATIONS

Description:

$S_{DS} = 1.35 g$

$I_p = 1.0$

$a_p = 2.5$  (See Section 13.1.3)

$R_p = 2.5$

$h = 1$  floor/ft (Average roof height of structure with respect to the base)

$z = 0.5$  floor/ft (Height in structure of point of attachment of component)

$z/h = 0.50$  <---Conservative

### Seismic Design Force

$$F_p = \frac{0.4a_p S_{DS} W_p}{(R_p/I_p)} \left(1 + 2 \frac{z}{h}\right) = 1.08 W_p \text{ (Eqn 13.3-1)}$$

$$(F_p)_{max} = 1.6 S_{DS} I_p W_p = 2.16 W_p \text{ (Eqn 13.3-2)}$$

$$(F_p)_{min} = 0.3 S_{DS} I_p W_p = 0.41 W_p \text{ (Eqn 13.3-3)}$$

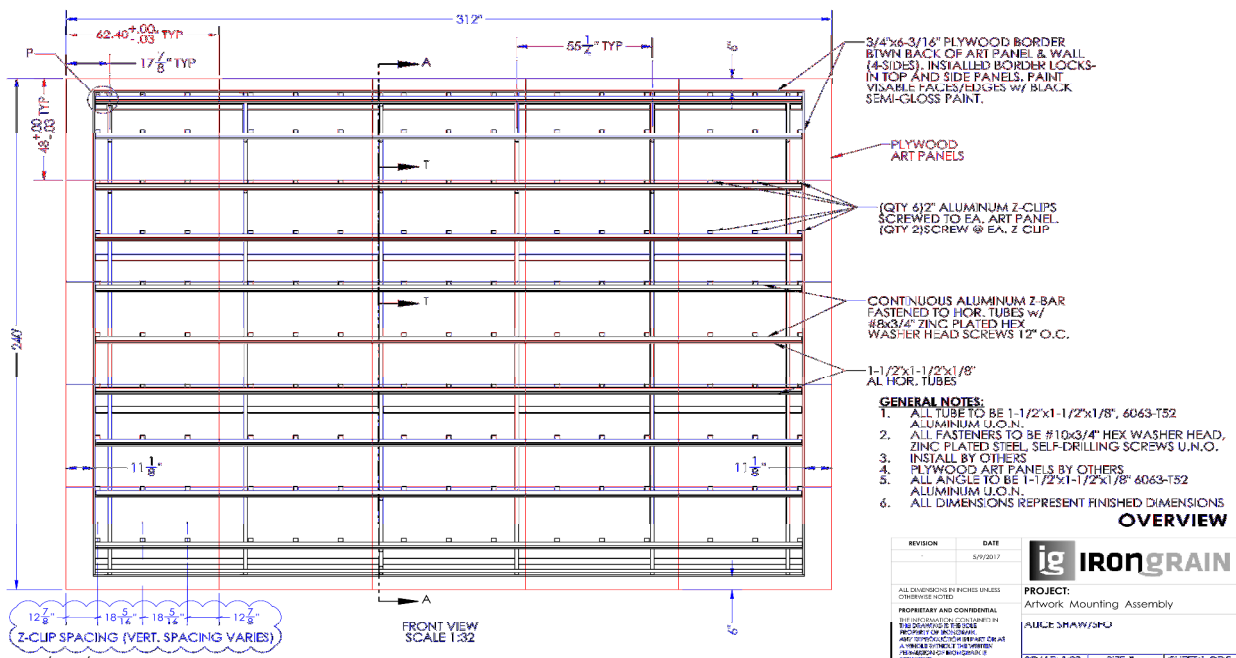
Governing Force = 1.08 Wp (Eqn 13.3-1)

### Anchorage Design

$\Omega_0 = 2.5$

(overstrength factor, from Chp 13 of ASCE 7-10, Supplement)

### Image of Component





Project : Alice Shaw SFO Installation  
 No: 17124.1  
 By: EK  
 Date: 5/23/17 Page: \_\_\_\_\_

**Channel Connection Calculations**

Wtotal = 2340 lb  
 Fp = 1.08 g  
 V, eq,total = 2531 lb (Total Base Shear due to Seismic)

# of Channels = 4  
 # of Studs/Channel = 13  
 # of Screws/Studs = 2  
 of Screws/Channel = 26

# of Screws 104  
 Wscrew = 23 lb  
 Vscrew = 24 lb (equal to Tension for EQ perpendicular to wall)

Vall = 140 lb (assumed #10 SMS through 1-layer of gyp into 18ga, 33ksi stud)  
 Tall = 109 lb

**Check In-plane Shear**

V, screw combined = 28 lb (In-plane ASD Load Case 16-21, with SRSS for W and V in screws)  
 D/C = 0.20

**Check Out-of-plane Combined Shear and Tension**

V, screw = 23 lb  
 D/C, V = 0.16  
 T, screw = 17 lb (Out-of-plane ASD Load Case 16-21)  
 D/C, T = 0.16

D/C, combined = 0.32

[Provide 2 - #10 SMS per Stud, Min. 26 per channel distributed evenly across 13 studs min.]

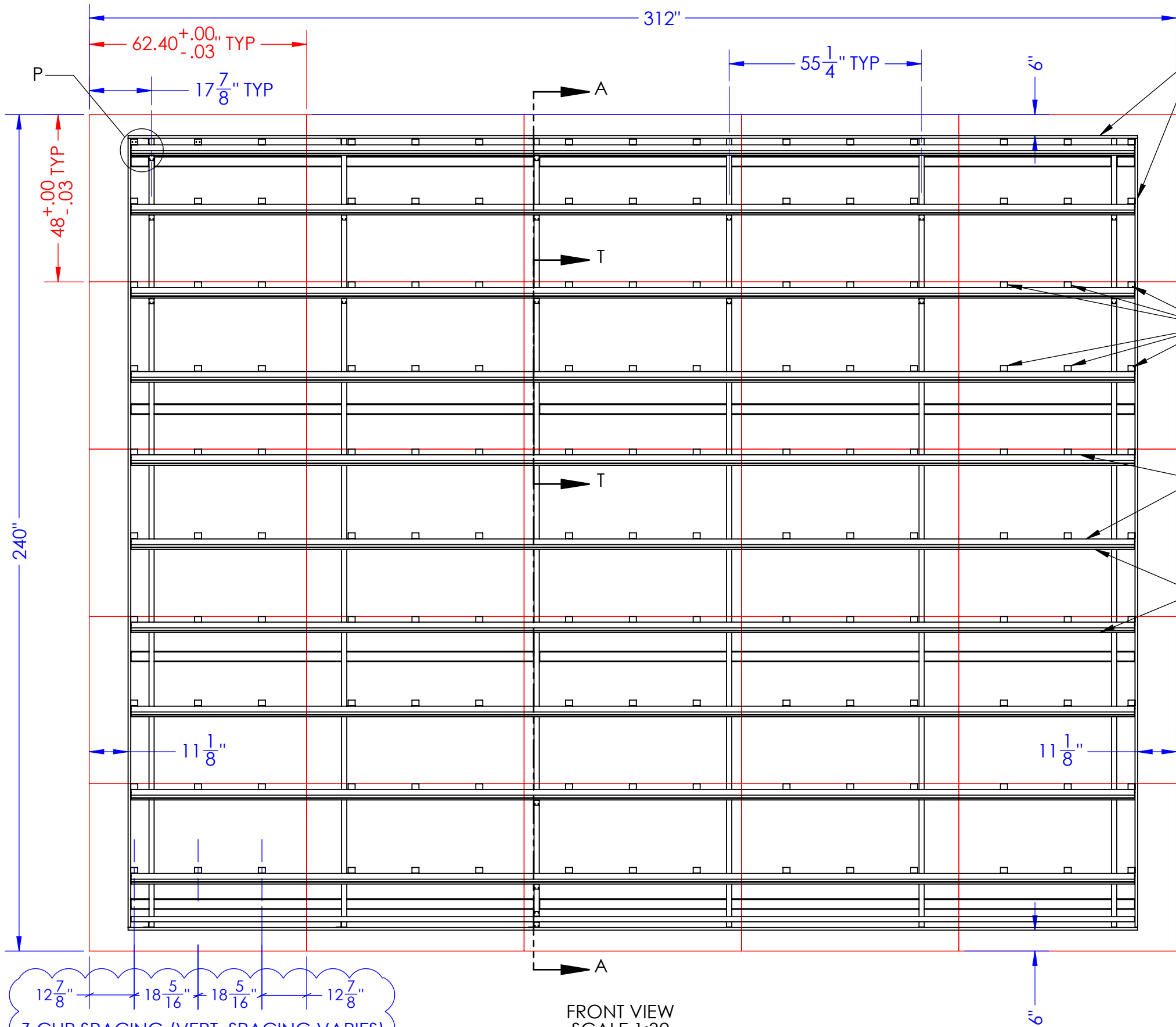
**Check Shear and Tension on Spacer Tube and Brackets**

# Spacer Brackets 24  
 Wcleat 98 lb  
 V/T cleat 75 lb  
 # screws / spacer = 2  
 W, bolt = 48.8 lb  
 V/T, bolt = 37.7 lb

D/C, combined = 0.69

[Provide Min. 2 - #10 SMS from Vert Tube to Spacer]

[All other connections are OK By Inspection]



3/4"x6-3/16" PLYWOOD BORDER BTWN BACK OF ART PANEL & WALL (4-SIDES). INSTALLED BORDER LOCKS- IN TOP AND SIDE PANELS. PAINT VISABLE FACES/EDGES w/ BLACK SEMI-GLOSS PAINT.

PLYWOOD ART PANELS

(QTY 6) 2" ALUMINUM Z-CLIPS SCREWED TO EA. ART PANEL. (QTY 2) SCREW @ EA. Z-CLIP

CONTINUOUS ALUMINUM Z-BAR FASTENED TO HOR. TUBES w/ #8x3/4" ZINC PLATED HEX WASHER HEAD SCREWS 12" O.C.

1-1/2"x1-1/2"x1/8" AL HOR. TUBES

**GENERAL NOTES:**

1. ALL TUBE TO BE 1-1/2"x1-1/2"x1/8", 6063-T52 ALUMINUM U.O.N.
2. ALL FASTENERS TO BE #10x3/4" HEX WASHER HEAD, ZINC PLATED STEEL, SELF-DRILLING SCREWS U.N.O.
3. INSTALL BY OTHERS
4. PLYWOOD ART PANELS BY OTHERS
5. ALL ANGLE TO BE 1-1/2"x1-1/2"x1/8" 6063-T52 ALUMINUM U.O.N.
6. ALL DIMENSIONS REPRESENT FINISHED DIMENSIONS

**OVERVIEW**

REVISION	DATE
-	5/9/2017

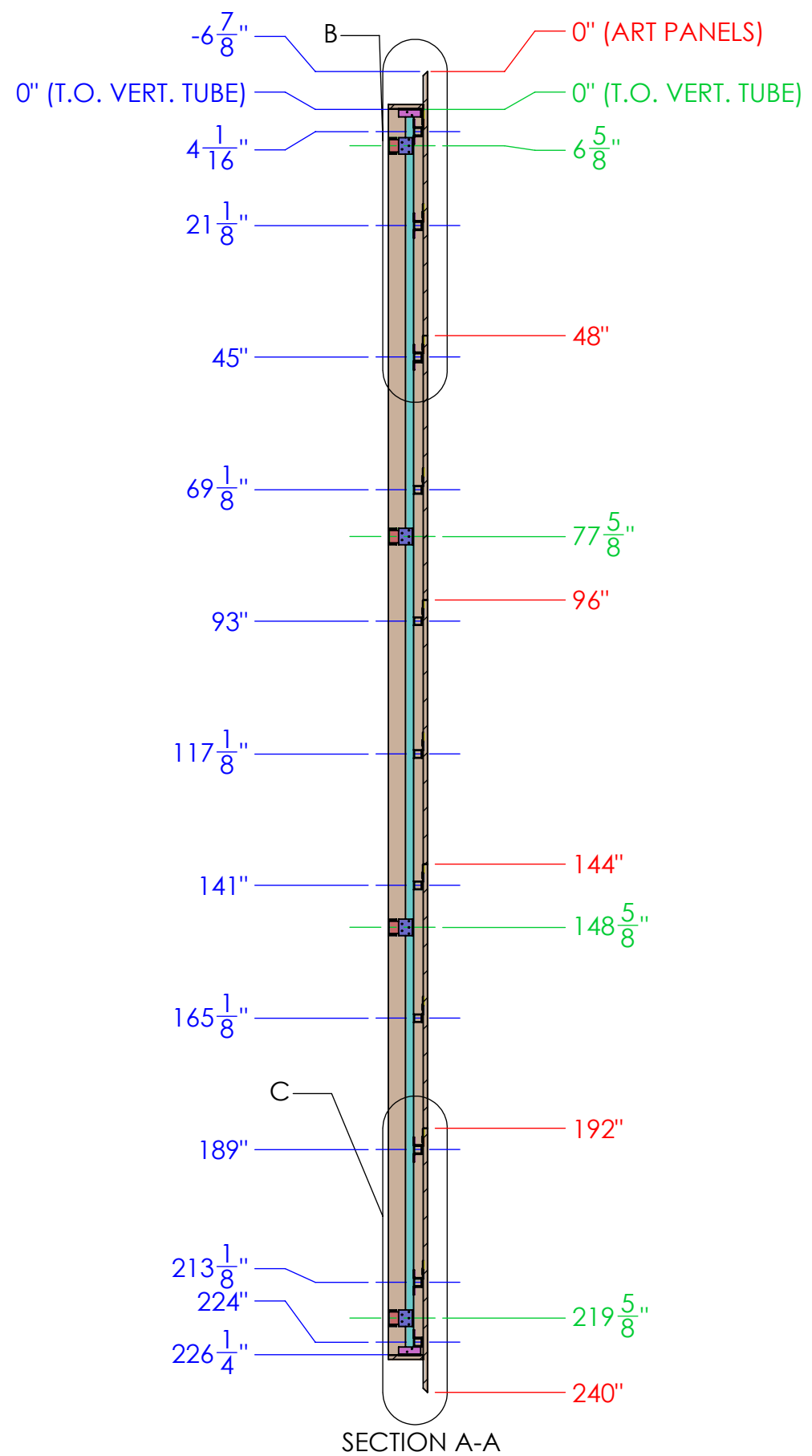


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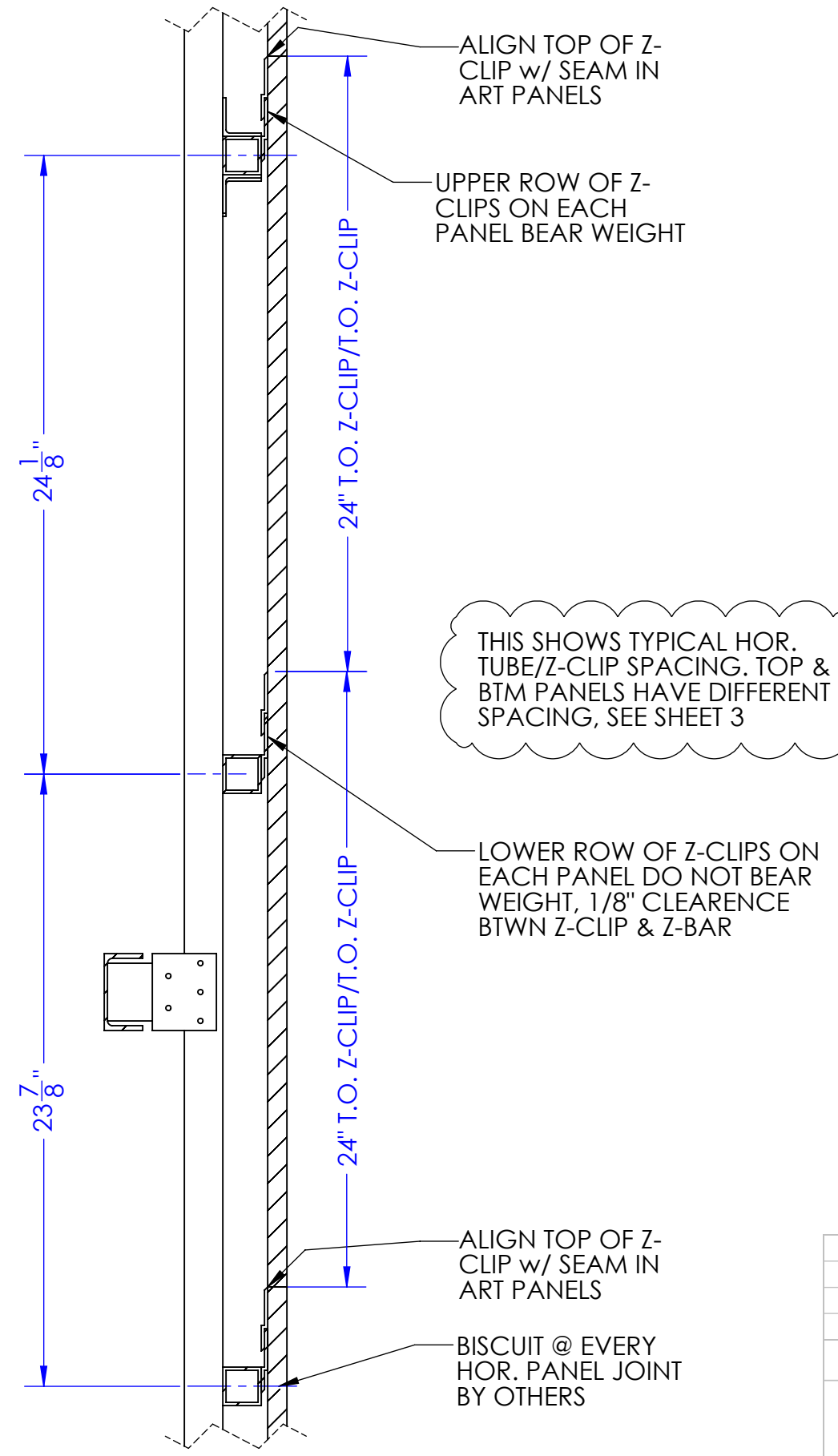
**PROJECT:**  
 Artwork Mounting Assembly  
 ALICE SHAW/SFO  
 SCALE: 1:32    SIZE **B**    SHEET 1 OF 5

12 7/8"    18 5/16"    18 5/16"    12 7/8"  
 Z-CLIP SPACING (VERT. SPACING VARIES)

FRONT VIEW  
 SCALE 1:32



SECTION A-A



SECTION T-T  
SCALE 1 : 6

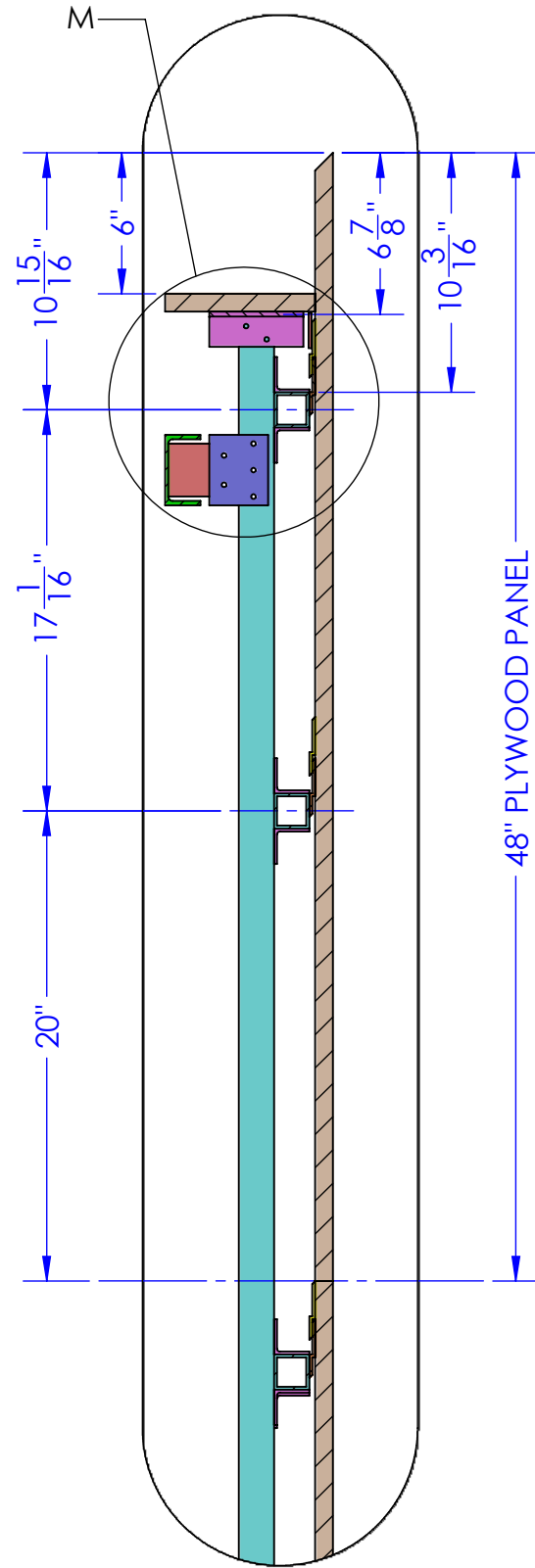
**SECTIONS**

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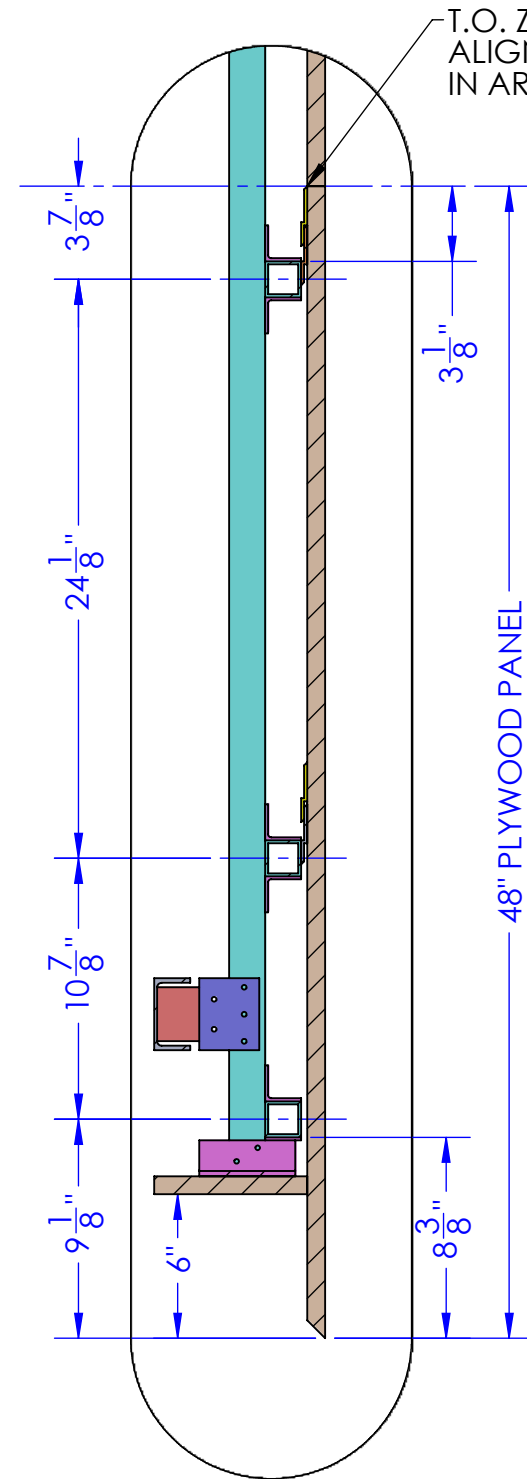


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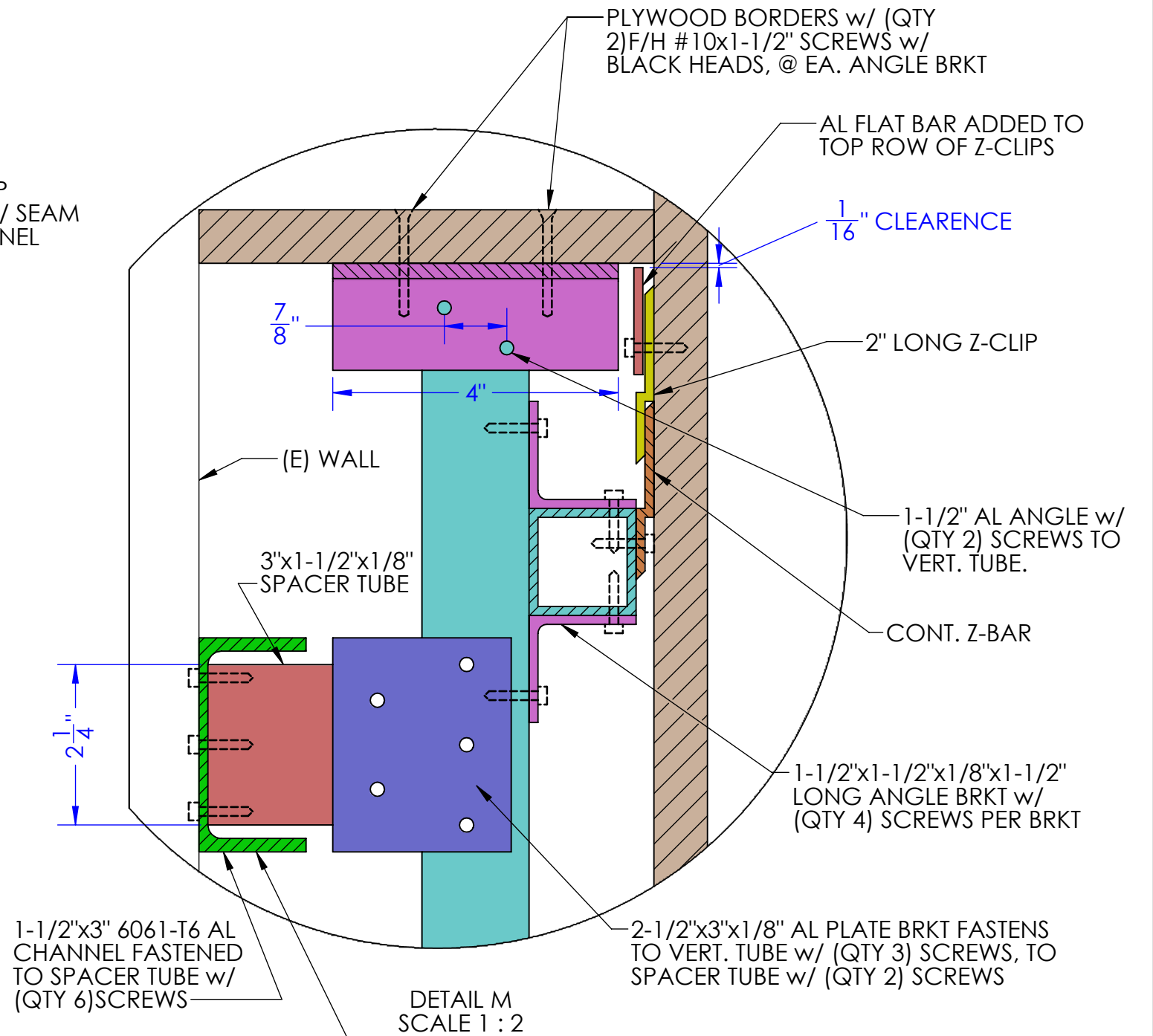
<b>PROJECT:</b> Artwork Mounting Assembly
ALICE SHAW/SFO
SCALE: 1:28    SIZE <b>B</b> SHEET 2 OF 5



DETAIL B  
SCALE 1 : 8



DETAIL C  
SCALE 1 : 8



DETAIL M  
SCALE 1 : 2

1-1/2"x3" 6061-T6 AL CHANNEL FASTENED TO SPACER TUBE w/ (QTY 6) SCREWS

3"x1-1/2" AL CHANNEL MOUNTED TO WALL w/ (QTY 2) #10x2-1/2" SCREWS @ EA. STUD

PLYWOOD BORDERS w/ (QTY 2) F/H #10x1-1/2" SCREWS w/ BLACK HEADS, @ EA. ANGLE BRKT

AL FLAT BAR ADDED TO TOP ROW OF Z-CLIPS

1/16" CLEARANCE

2" LONG Z-CLIP

1-1/2" AL ANGLE w/ (QTY 2) SCREWS TO VERT. TUBE.

CONT. Z-BAR

1-1/2"x1-1/2"x1/8"x1-1/2" LONG ANGLE BRKT w/ (QTY 4) SCREWS PER BRKT

2-1/2"x3"x1/8" AL PLATE BRKT FASTENS TO VERT. TUBE w/ (QTY 3) SCREWS, TO SPACER TUBE w/ (QTY 2) SCREWS

## DETAILS 1

REVISION	DATE
-	5/9/2017

ig IRONGRAIN

PROJECT:  
Artwork Mounting Assembly

ALICE SHAW/SFO

SCALE: 1:28 SIZE B SHEET 3 OF 5

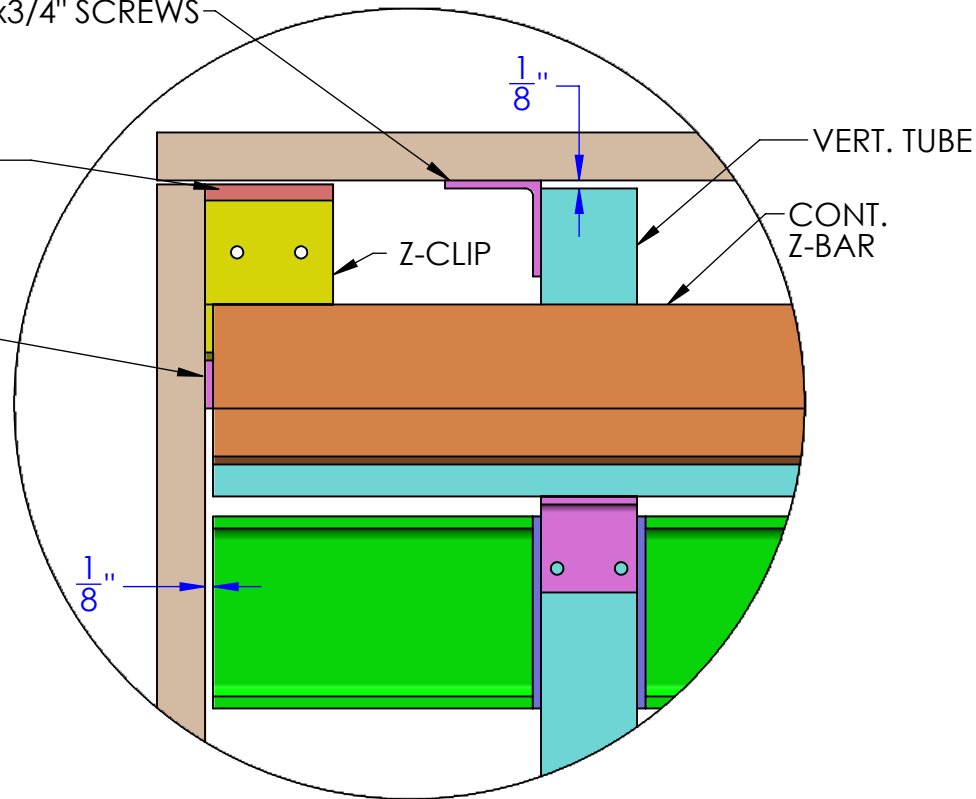
ALL DIMENSIONS IN INCHES UNLESS OTHERWISE NOTED

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1-1/2"x1-1/2"x1/8"x4" LONG  
ANGLE BRKT FASTENED TO VERT.  
TUBE w/ (QTY 2) #10x3/4" SCREWS

BORDER STOP  
ADDED TO TOP  
ROW OF Z-CLIPS

PLY BORDER  
SCREWED TO  
ANGLE w/ F/H SELF  
DRILLING SCREWS



DETAIL P  
(ART PANELS NOT SHOWN FOR CLARITY)  
SCALE 1 : 3

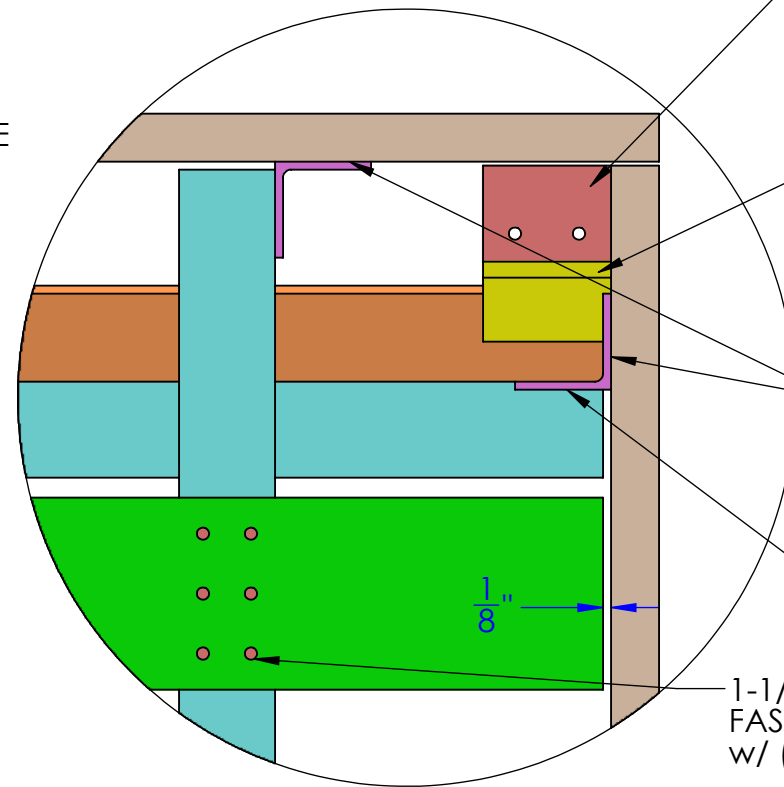
AL FLAT BAR VHB  
TAPED TO TOP ROW  
OF Z-CLIPS

2" LONG  
Z-CLIP

PLY BORDER  
SCREWED TO  
ANGLE w/ F/H SELF  
DRILLING SCREWS

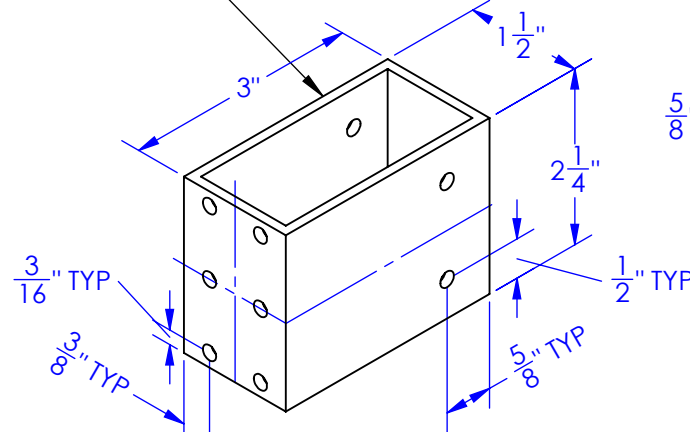
1-1/2"x1-1/2"x1/8"x3" LONG AL  
ANGLE BRKT FASTENED TO  
HOR. TUBE w/ (QTY 2) SCREWS

1-1/2"x3" AL CHANNEL  
FASTENED TO SPACER TUBE  
w/ (QTY 6) SCREWS



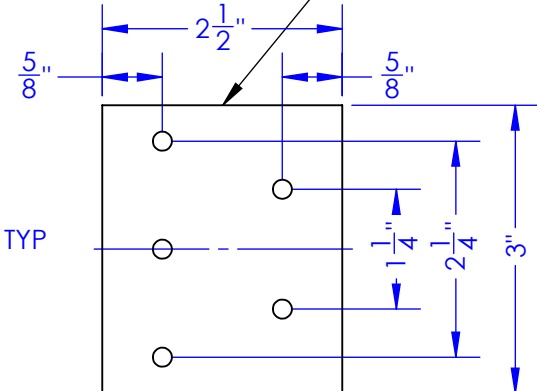
BACK VIEW OF DETAIL P  
(UPPER CORNER @ PLY BORDER  
CONNECTION TO FRAME)  
SCALE 1:3

3"x1-1/2"x1/8"  
6063-T52 AL  
SPACER TUBE



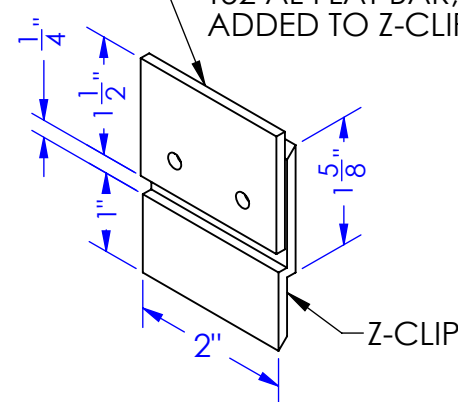
TYPICAL SPACER TUBE  
SCALE 1:2

2-1/2"x3"x1/8"  
6063-T52 AL PLATE



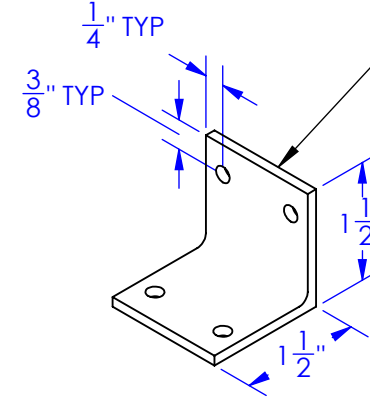
TYPICAL PLATE BRKT  
SCALE 1:2

1/8"x1-1/2"x2" 6063-  
T52 AL FLAT BAR,  
ADDED TO Z-CLIP

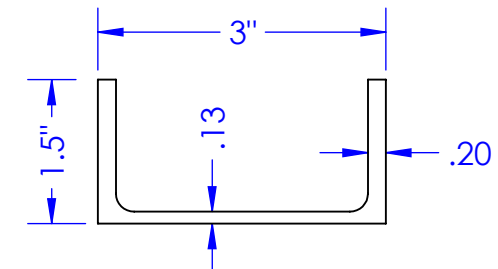


TYPICAL TOP-ROW Z-CLIPS  
SCALE 1:2

1-1/2"x1-1/2"x1/8"x1-1/2"  
LONG ANGLE BRKT



TYPICAL ANGLE BRKT  
SCALE 1:2



CROSS SECTION OF WALL-  
MOUNTED 6061-T6 AL CHANNEL  
SCALE 1:2

## DETAILS 2

REVISION	DATE	ig IRONGRAIN
-	5/9/2017	
<p>ALL DIMENSIONS IN INCHES UNLESS OTHERWISE NOTED</p> <p><b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF IRONGRAIN. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF IRONGRAIN IS PROHIBITED.</p>		<p><b>PROJECT:</b> Artwork Mounting Assembly</p> <p>ALICE SHAW/SFO</p>
SCALE: 1:28	SIZE B	SHEET 4 OF 5

