

FYF LLC.

Owner: FYF LLC,  
43 S Water St E | Fort Atkinson, WI  
ilovefunkys@hotmail.com

Zenteno  
Solutions

Plumbing Designer: Zenteno Solutions  
1530 P B Lane # Z4646  
WICHITA FALLS, TX, 76302  
roberto@zenteno.net | 832.449.9278



Desapex  
#1075-B, 10th main, HAL 2nd stage,  
Bengaluru -08  
HVAC Designer: Desapex  
shreenidhi@desapex.com

WISCONSIN  
FIRM P.  
SCHULTZ  
A-1111975  
STEVENS  
WI  
ARCHITECT

openingdesign


Architect: OpeningDesign  
312 W. Lakeside St. | Madison, WI 53715  
hello@openingdesign.com | 773-425-6456

Date	Description
2017.05.03	Issue For Permit

Project Name | Enter address here  
BRACING ELEVATION

S400

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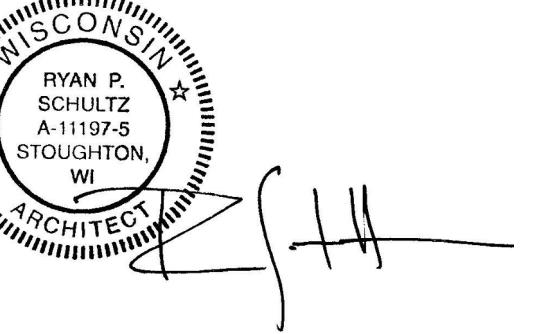








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# BRACING DETAILS

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A 3D CAD model illustrating a structural connection. A vertical column, colored dark brown, is connected to a horizontal beam, also colored dark brown. The connection is made through a grey metal plate. On the left side of this plate, there are four yellow hex nuts. On the right side, there are four purple hex nuts. Red curved arrows indicate the direction of force transfer from the beam into the column at both the top and bottom connection points.

This architectural cross-section diagram illustrates a wall assembly with the following dimensions and features:

- Overall Wall Thickness:** 1' - 1 1/2"
- Outer Leaf:** Brown brick masonry.
- Inner Leaf:** Gray concrete masonry.
- Insulation:** A double layer of yellow insulation panels is positioned between the two leafs.
- Reinforcement:** A vertical steel reinforcement bar (rebar) is embedded in the wall, with its top end extending above the top surface.
- Fasteners:** The insulation panels are secured to the inner leaf using purple hexagonal fasteners.
- Base Plate:** A thick brown base plate is attached to the bottom of the inner leaf.
- Bottom Extension:** A blue arrow points downwards from the base plate, indicating an extension or continuation of the wall structure.

Key dimensions labeled on the right side of the diagram include:

- 0' - 5 1/8"
- 0' - 2 9/16"
- 0' - 3"
- 0' - 3"
- 0' - 5"
- 0' - 3"
- 0' - 3"
- 0' - 3"
- 0' - 5 3/4"

A red horizontal line with arrows at both ends spans across the width of the wall assembly, highlighting the insulation layer.

**Detail 32**  
3" = 1'-0"

This architectural section drawing illustrates a wall assembly labeled "Detail 32". The drawing shows a vertical wall section with various components and dimensions. A central vertical line indicates the center of the wall. On the left side, there is a brown wall section. In the center, a thick brown vertical element represents a stud or post. To the right, another brown wall section is shown. The assembly includes several horizontal layers and vertical supports. Dimensions are provided in feet and inches (3" = 1'-0"). Key dimensions include:

- Vertical distances from the bottom: 0' - 5 3/4", 0' - 3", 0' - 3", 0' - 3", 0' - 2 1/2", 0' - 3", 0' - 3", 0' - 3", 0' - 6", and 0' - 5".
- Horizontal distances: 0' - 5", 0' - 2 1/2", and 0' - 5".

Material labels "S403" are present in circles at the top left and middle left. A scale bar at the bottom left indicates 3" = 1'-0".

This technical diagram illustrates a structural connection for a  $5 \frac{1}{2}'' \times 18''$  GLULAM BEAM. The connection is made through a central vertical assembly of two grey side plates. Each plate features four yellow hexagonal holes, likely for bolt placement. The top plate is secured to a brown rectangular cap plate, while the bottom plate is attached to a vertical brown column. The entire assembly is shown within a red circular outline, indicating its circular profile or a specific test condition.

$5 \frac{1}{2}'' \times 18''$  GLULAM BEAM

$5/16 \times 9 \times 0'-11"$  SIDE PLATES CAP

## GENERAL NOTES

The diagram illustrates a wall section with the following dimensions:

- Total width at the top:  $0' - 6 \frac{3}{4}''$
- Height of the central vertical element:  $0' - 8''$
- Total height of the wall section:  $0' - 5 \frac{1}{2}''$

Key features include:

- A central vertical element with a height of  $0' - 8''$ .
- Two horizontal grey plates at the base, each featuring a yellow and green rectangular component.
- Blue arrows pointing from the bottom of the central element to the bottom of the two horizontal plates, indicating alignment requirements.
- A blue callout box in the bottom right corner contains the text: "align this plane and this plane".

**Detail 34**  
3" = 1'-0"

The diagram shows a cross-section of a structural column connection. A central vertical column is supported by a horizontal beam at the top and bottom. The top support consists of a 5 1/8" x 6" Gluelam column and a 3 1/2" x 15" Gluelam beam. The column is connected to a 6 S403 side plate with 5/16 x 9 x 0'-11" side plates and 3/4" galvanized thru bolts. The bottom support is a 3 1/2" x 15" Gluelam beam resting on a concrete foundation. Vertical dimensions include 0' - 6" from the base to the top of the column, and 0' - 3" increments along the sides. Horizontal dimensions include 0' - 6 3/4" for the width of the column and 0' - 11 11/16" for the total width of the support structure.

5" GLUELAM BEAM

5 1/8" x 6" GLUELAM COLUMN

5/16 x 9 x 1'-2" SIDE PLATES  
W/ 2 3/4"DIA. THRU BOLTS

5  
S403

0' - 3"

0' - 3"

0' - 3"

0' - 3"

0' - 7 1/16"

1' - 3 3/4"

## 2 Detail 31

1 Detail 8  
8" - 11"

2 Detail 31  
3" = 1'-0"

1 Detail 8  
3" = 1'-0"

3

0' - 2"

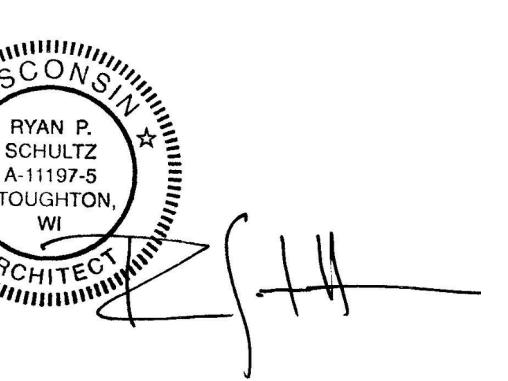
0' - 3"

0' - 3"

0' - 7 1/16"

5 Detail 33  
3" = 1'-0"

## **BRACING DETAILS**

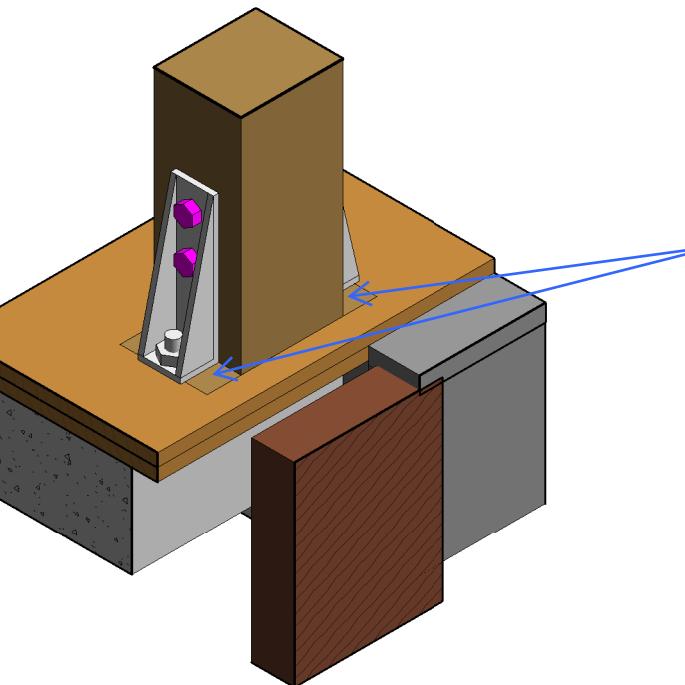


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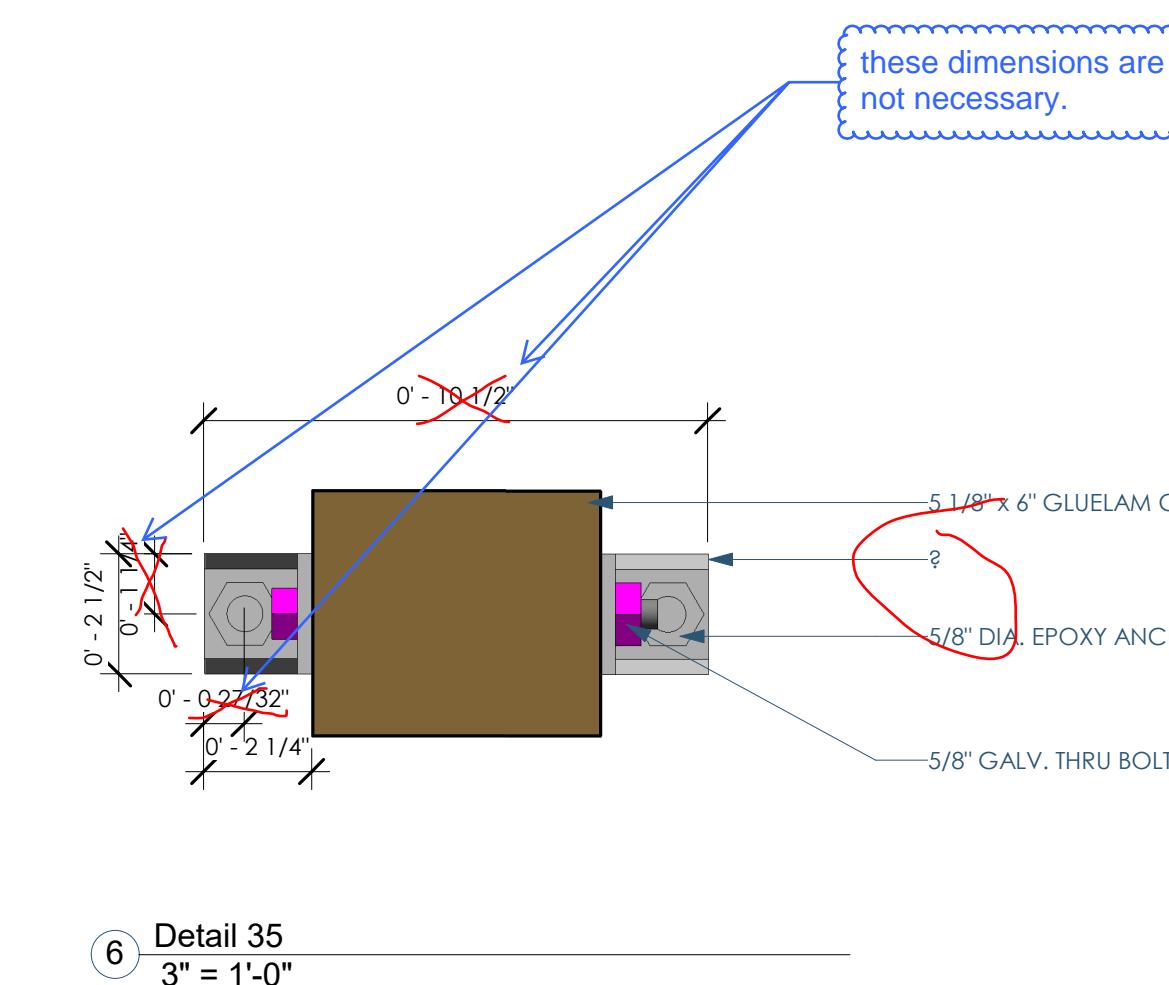
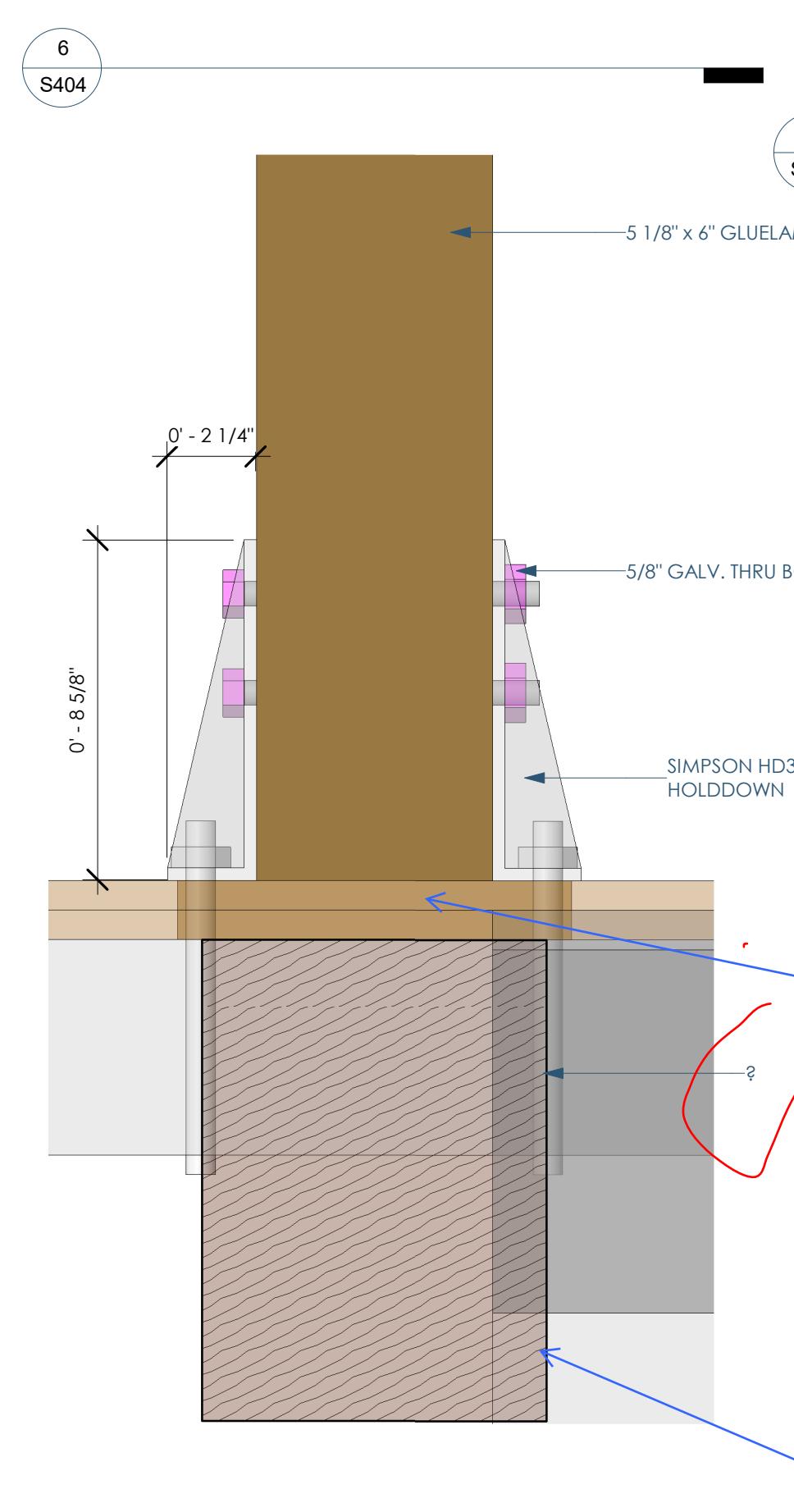
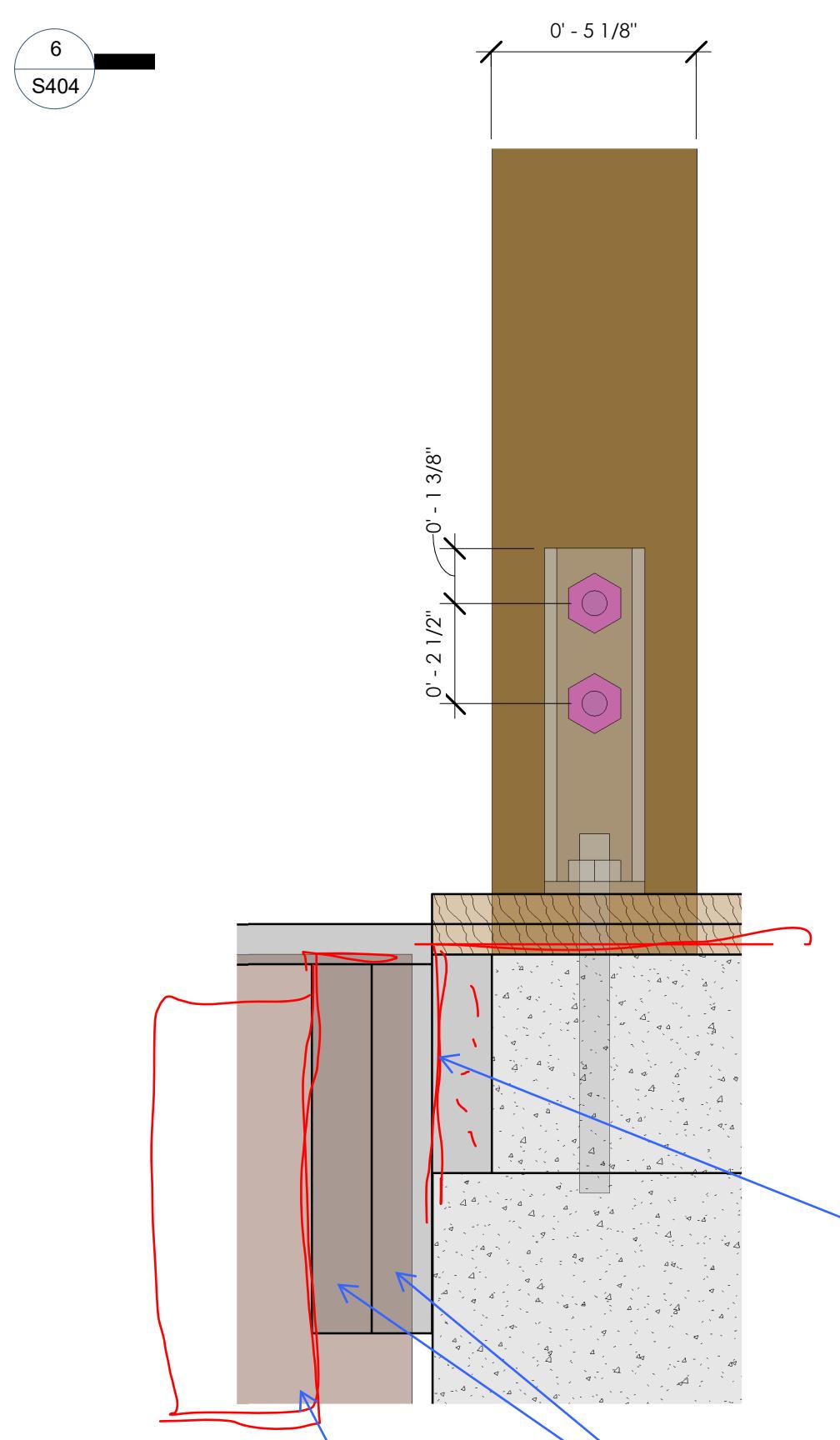
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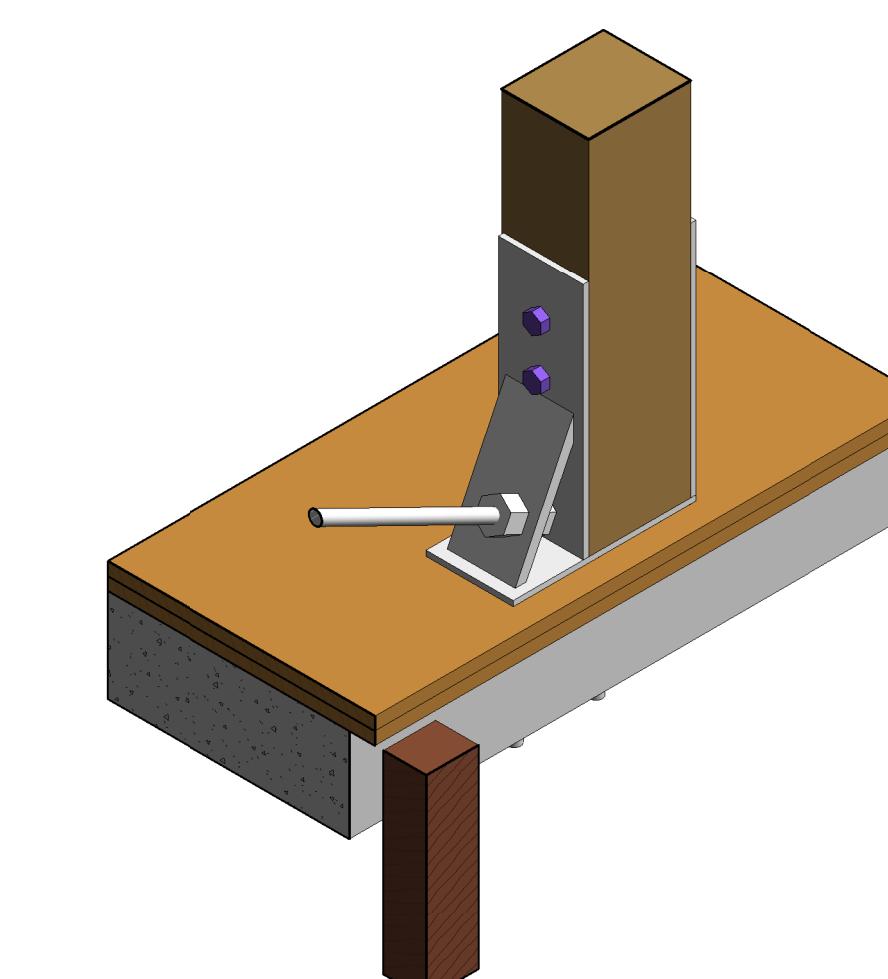
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GENERAL NOTES  
- UNLESS OTHERWISE INDICATED, ALL PARTS TO BE GALVANIZED (HOT DIPPED) AFTER FABRICATION, MINIMIZE FIELD WELDING AS MUCH AS POSSIBLE.GENERAL NOTES  
1/4" = 1'-0"

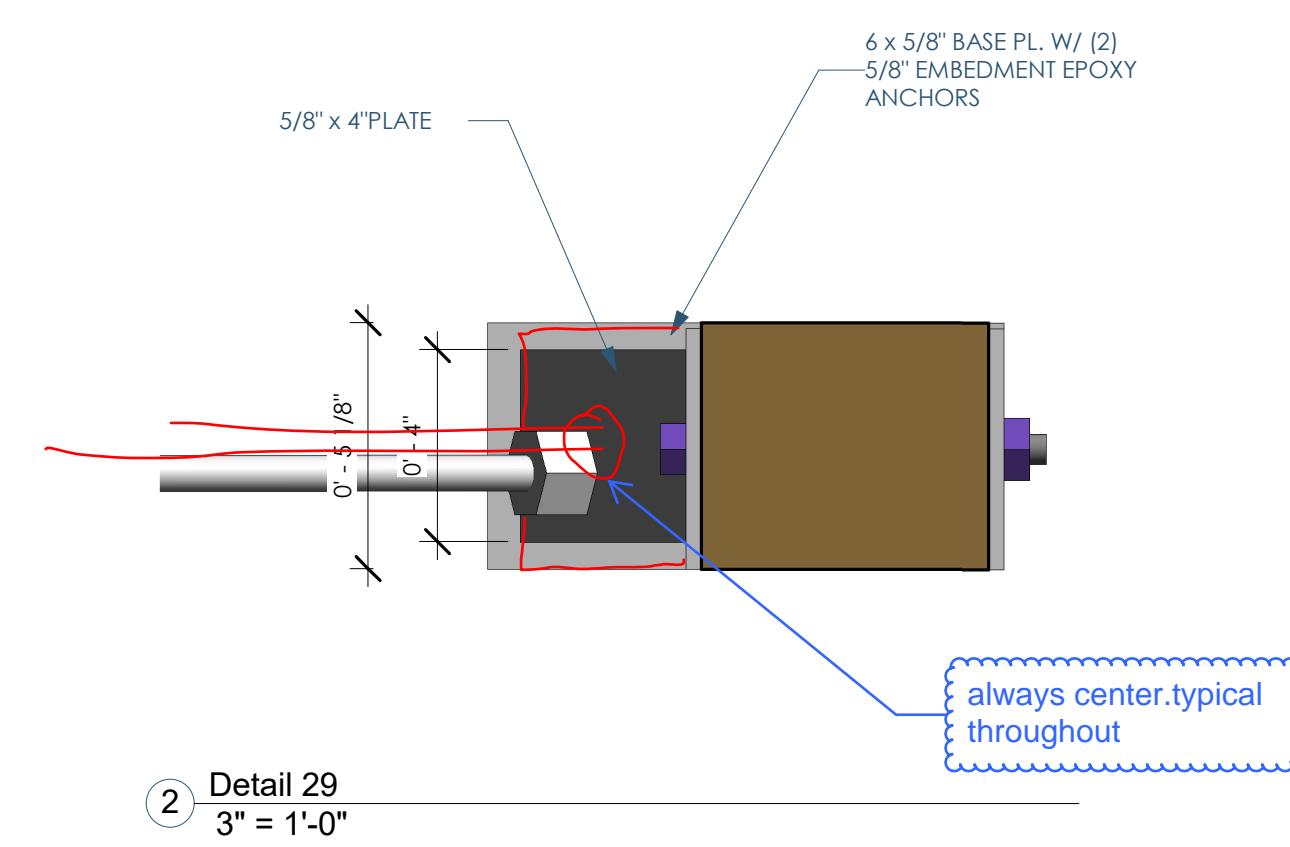
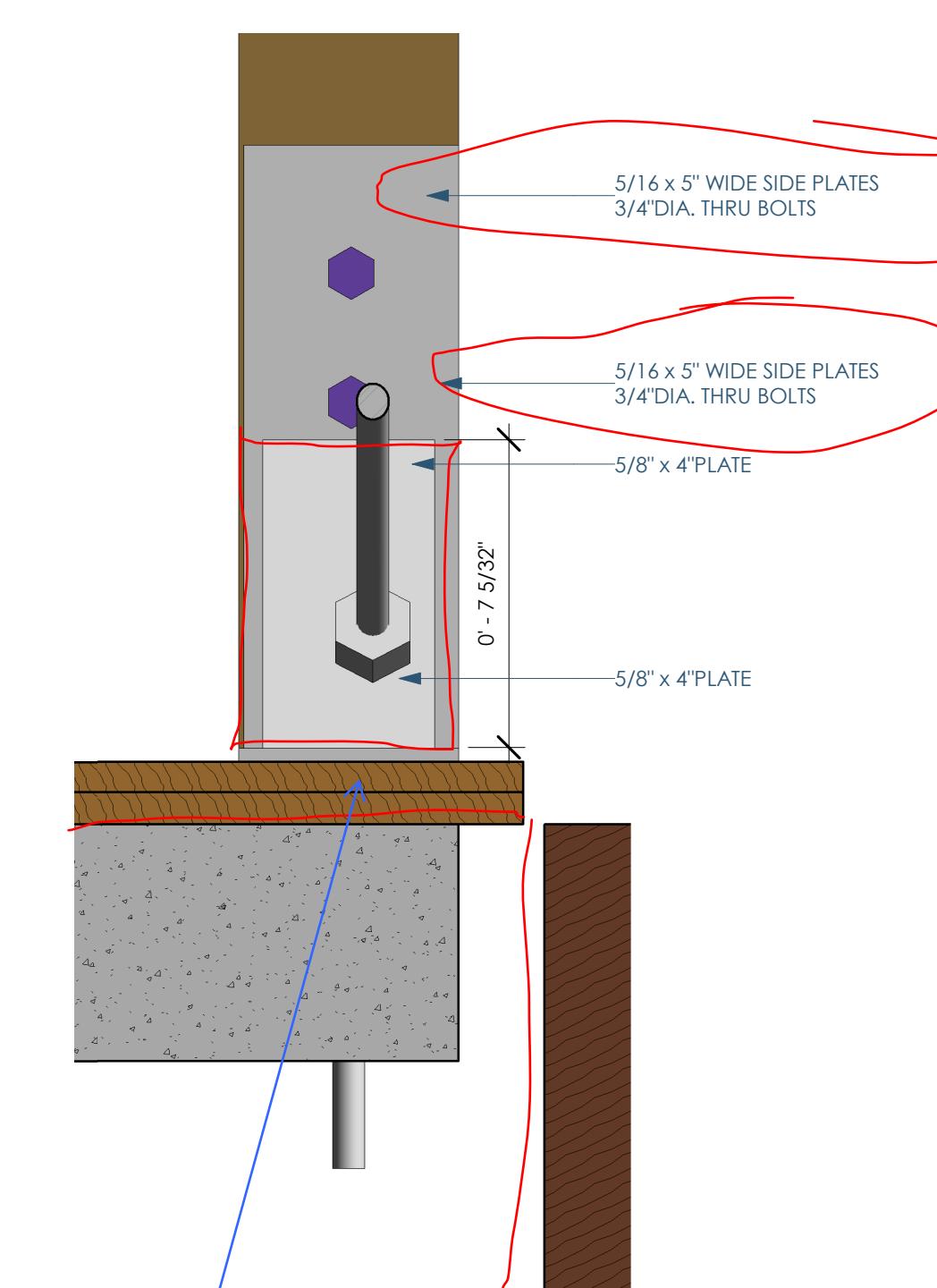
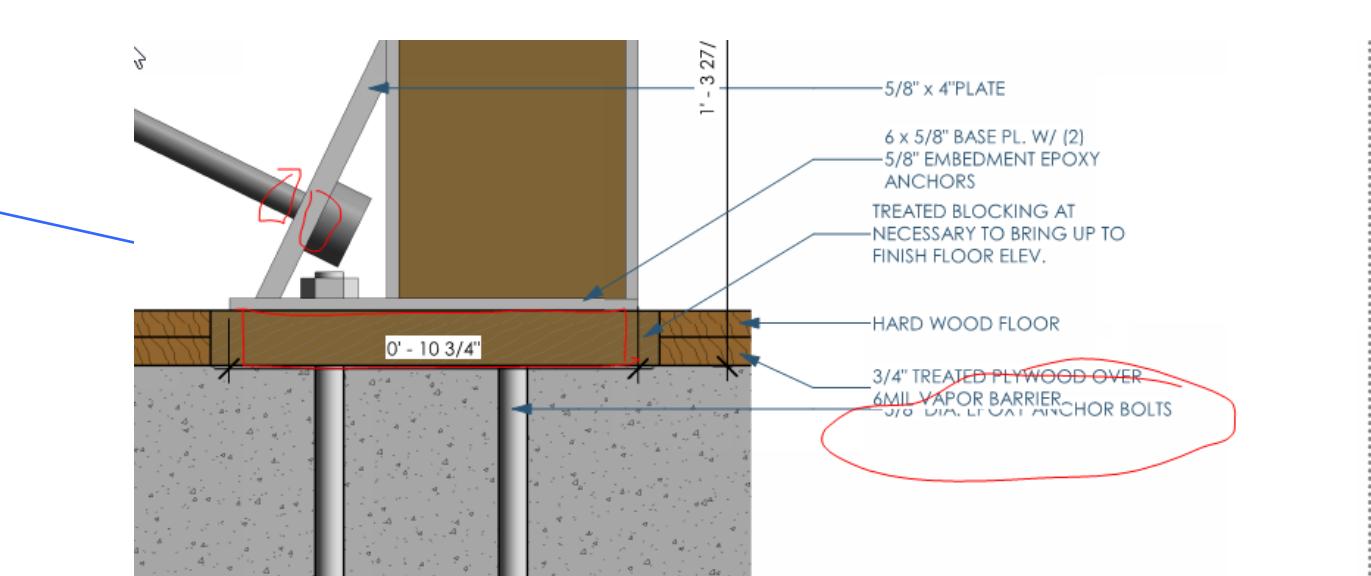
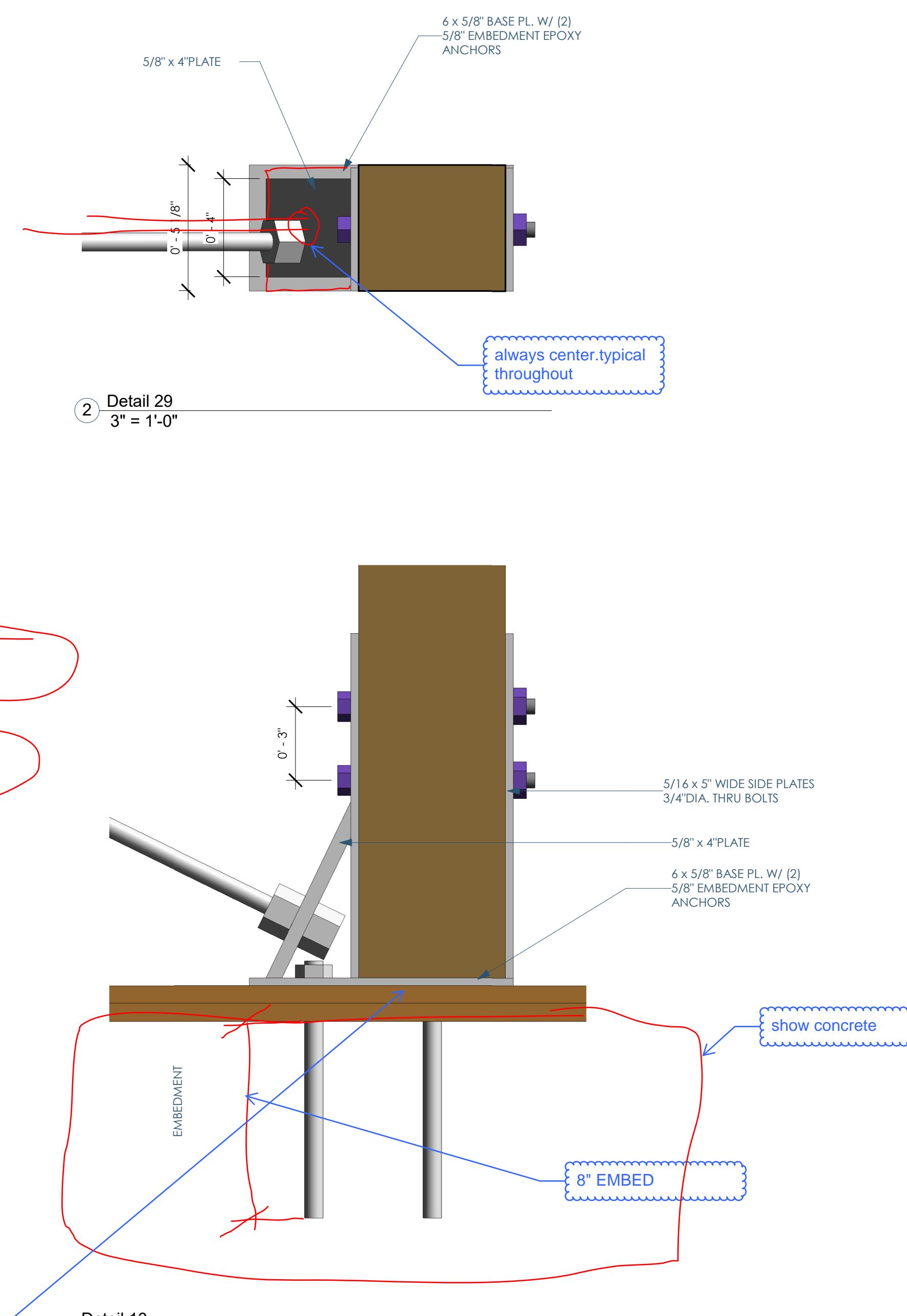
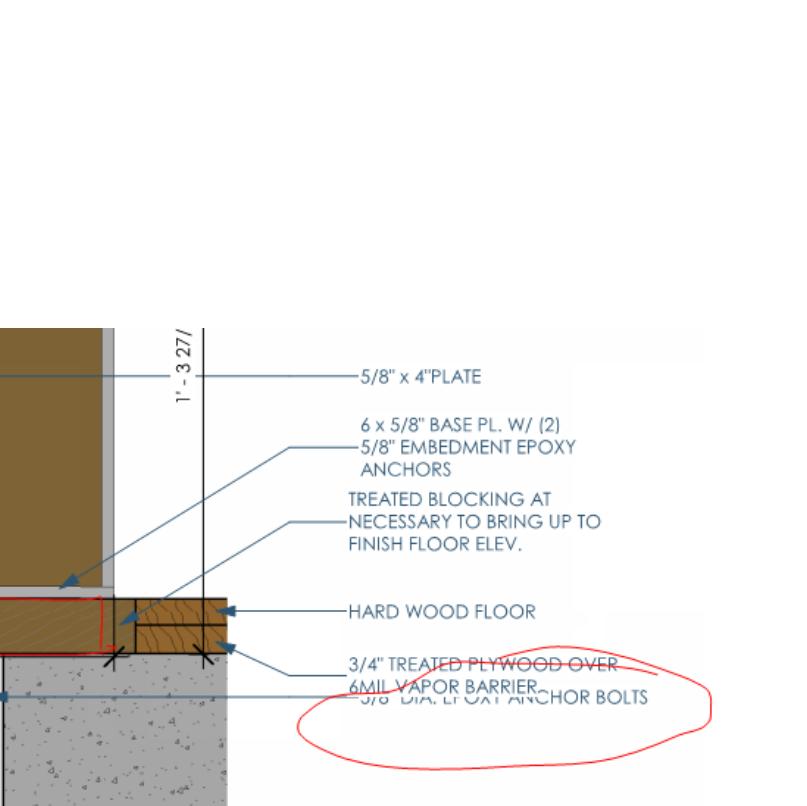
(7) AXON DETAIL 8

(6) Detail 35  
3" = 1'-0"(8) Detail 12  
3" = 1'-0"

Stirrup Width (W) (in.)	Top Flange Length (L) (in.)
3 1/4 - 5 1/2	10
5 1/8 - 6 7/8	12
3 1/4 - 8 1/4	12
8 1/8	14
3 1/4 - 5 1/2	9
6 1/8	12
5 1/4 - 8 1/8	12

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<http://embed.widencdn.net/pdfplus/ststoolbox/xzjwraux/C-C-2017-p176-177.pdf>

(4) AXON DETAIL 7

(2) Detail 29  
3" = 1'-0"(3) Detail 30  
3" = 1'-0"(1) Detail 13  
3" = 1'-0"(2) Detail 29  
3" = 1'-0"(1) Detail 13  
3" = 1'-0"BRACING DETAILS  
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