

**CONTRACTOR: LAKESIDE ALUMINUM, LLC**  
**DESIGN CRITERIA:**

**Applicable Codes, Regulations, and Standards**

1. The 2007 Florida Building Code with 2009 Supplements, specifically Chapter 16 Structural Design, Chapter 20 Aluminum, and Chapter 23 Wood.
2. AA ASM 35 and Specifications for Aluminum Structures, Part 1-A and 1-B of the Aluminum Design Manual prepared by The Aluminum Association, Inc. Washington, D.C., 2005 Edition
3. ASCE 7-05.

**Wind Loads**

1. Building Occupancy Category, Paragraph 1604.5 and Table 1604.5: Category 1.
2. Basic Wind Speed, Table 1609 State of Florida Debris Region & Basic Wind Speed, Paragraph 1609.3.1 and Table 1609.3.1 Equivalent Basic Wind Speed: **110 MPH**. Exposure Category, Paragraph 1609.4.3: **C**
3. Building Category for Aluminum Structures, Paragraph 2002.6: Building Category 1.

**Foundation Design**

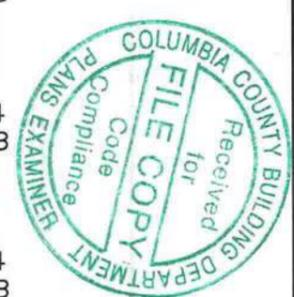
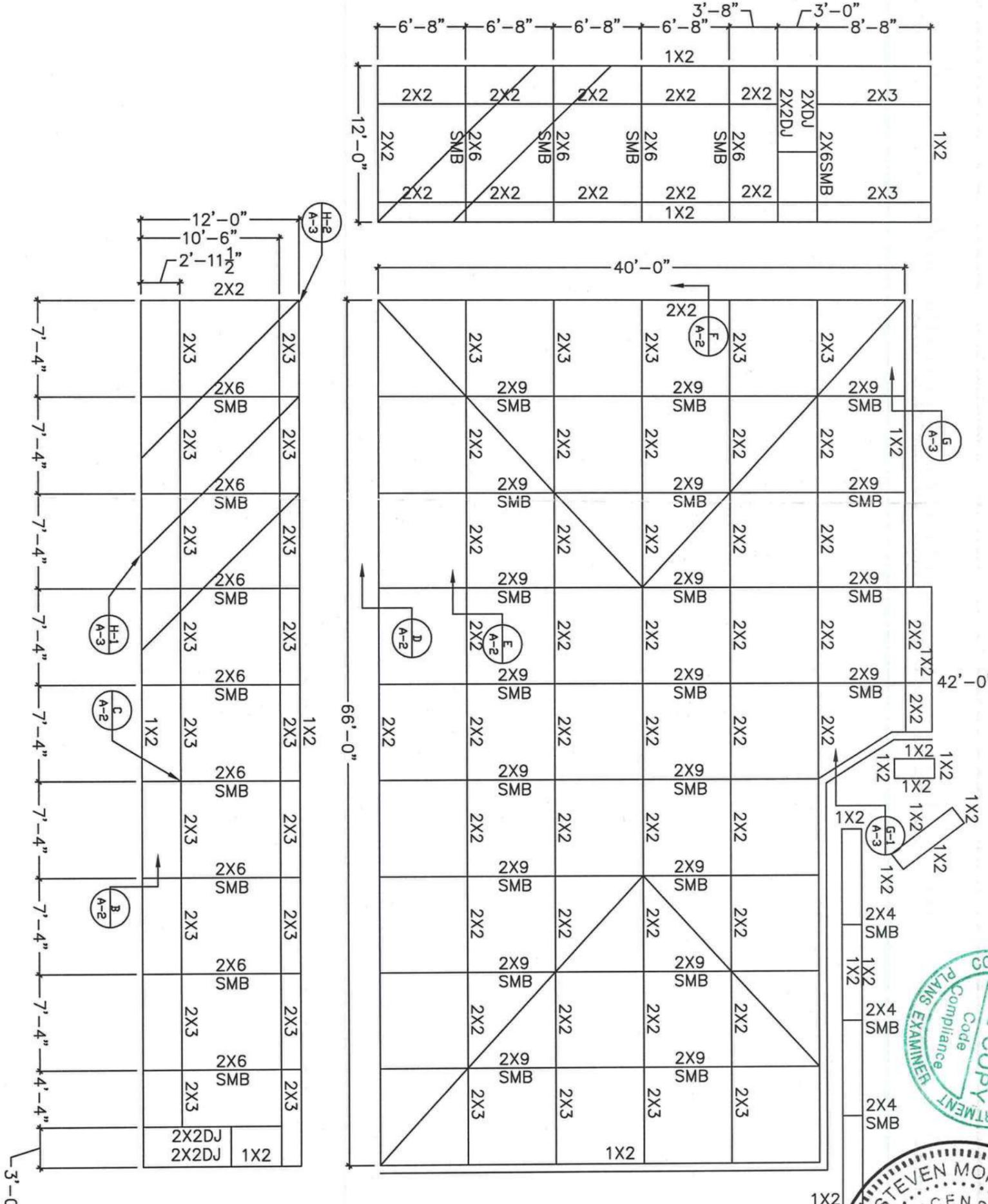
Actual Maximum Beam Span: **42'-0"**  
 Footing Size: Existing concrete slab. No additional concrete footing or slab is required to resist the loads imposed upon the existing slab by the proposed construction if the existing slab is a minimum of 4" thick and in sound condition, free from structural cracking, spalling, or other deterioration.

**Specifications**

The following specifications are applicable to this project:

1. Where concrete specifications are required, whether in the screen enclosure scope or not, by one or more regulatory agency, the following specifications are applicable:
  - a. Concrete shall conform to ASTM C94 for the following components:
    - i. Portland Cement Type 1 - ASTM C 150
    - ii. Aggregates - Large Aggregate 3/4" max - ASTM C 33
    - iii. Air entraining +/- 1% - ASTM C 260
    - iv. Water reducing agent - ASTM C 494
    - v. Clean Potable water
    - vi. Other admixtures not permitted
  - b. Metal accessories shall conform to:
    - i. Reinforcing Bars - ASTM A615, grade 60
    - ii. Welded wire fabric - ASTM A185
  - c. Concrete slump at discharge chute not less than 3" or more than 5". Water added after batching is not permitted.
  - d. Prepare and place concrete per American Concrete Institute Manual of Standard Practice, Parts 1, 2, and 3 including hot weather recommendations.
  - e. Moist cure or polyethylene curing permitted.
  - f. Prior to placing concrete, treat the entire subsurface area for termite in compliance with the FBC.
  - g. Concrete shall be placed over a polyethylene vapor barrier.
2. Aluminum extrusions shall be 6005 T5 Alloy
3. Fasteners are required to be SAE Grade 2 or better zinc plated.
4. All Self Mating Beam Sections are to be stitched with #14 screws 6" from ends and 24" center to center.
5. The minimum nominal thickness of protector panels (kickplates) shall be an industry standard of 0.024 inches.
6. Screened enclosures containing swimming pools shall comply with the applicable requirements of FBC R4101.17 Residential Swimming Barrier requirements.
7. Screen Fabric: 1/4" standard fabric or 3/8" Betterview. All other fabric shall be approved in writing by Suncoast Architecture & Engineering, LLC prior to use
8. All roof bracing shall be 2x2 Hollow minimum. Connection shall be similar to Drawing C/A-2.
9. Door location shall be determined in field by contractor.

Roof Type: **3/4 Mansard**



**A-1**  
 PLAN

**PROJECT ADDRESS:**  
 BOYD  
 900 NW FRONTIER DR  
 LAKE CITY, FL 32055

**SUNCOAST ARCHITECTURE & ENGINEERING**  
 13630 58TH STREET NORTH SUITE 101  
 CLEARWATER FL 33760  
 TEL: (727) 532-9000  
 FLORIDA LICENSES: AA26001769 & CA #28841

**STEVEN MORAGA, PE**  
 FLORIDA LICENSE: 64609  
 13630 58TH STREET NORTH SUITE 101  
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 TEL: (727) 532-9000  
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**ALUMINUM MEMBERS DIMENSIONS**

**HOLLOW SECTIONS**

- 2 x 2: 2" x 2" x 0.044"
- 2 x 3: 2" x 3" x 0.050"
- 2 x 4: 2" x 4" x 0.050"
- 2 x 5: 2" x 5" x 0.050"

**OPEN BACK SECTIONS**

- 1 x 2: 1" x 2" x 0.040"
- 1 x 3: 1" x 3" x 0.045"

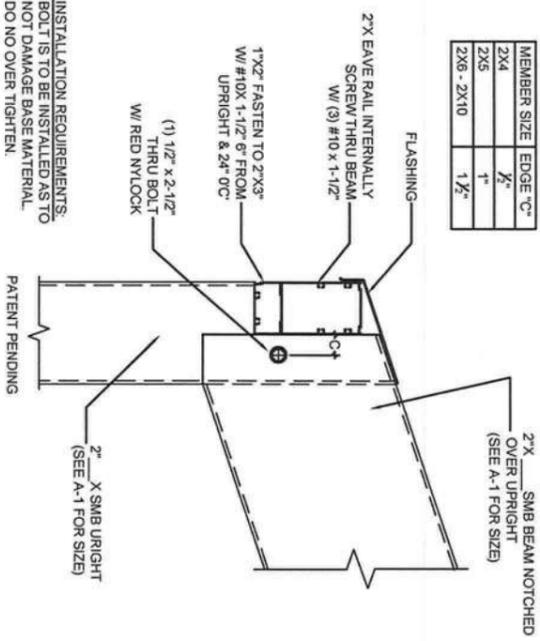
**SNAP SECTIONS**

- 2 x 2 Snap: 2" x 2" x 0.045"
- 2 x 3 Snap: 2" x 3" x 0.050"
- 2 x 4 Snap: 2" x 4" x 0.045"

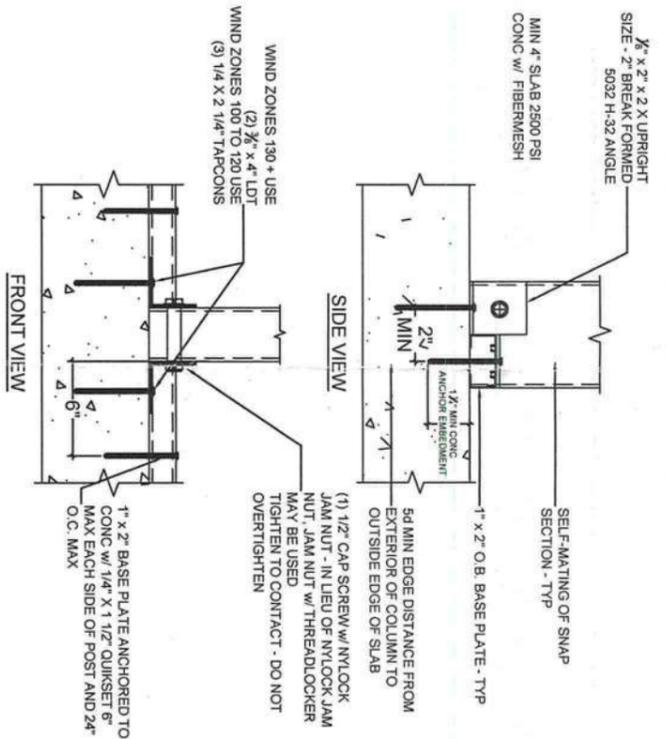
**SELF-MATING (SMB)**

- 2 x 4 SMB: 2" x 4" x 0.044" x 0.100"
- 2 x 5 SMB: 2" x 5" x 0.050" x 0.100"
- 2 x 6 SMB: 2" x 6" x 0.050" x 0.120"
- 2 x 7 SMB: 2" x 7" x 0.057" x 0.120"
- 2 x 8 SMB: 2" x 8" x 0.072" x 0.124"
- 2 x 9 SMB: 2" x 9" x 0.072" x 0.124"
- 2 x 10 SMB: 2" x 10" x 0.092" x 0.398"

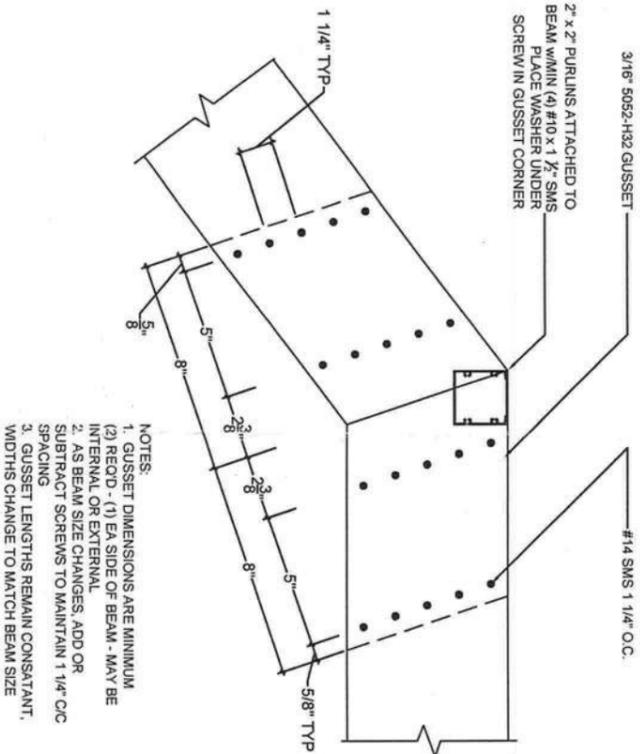
| MEMBER SIZE | EDGE "C" |
|-------------|----------|
| 2X4         | 1/2"     |
| 2X5         | 1"       |
| 2X6 - 2X10  | 1 1/2"   |



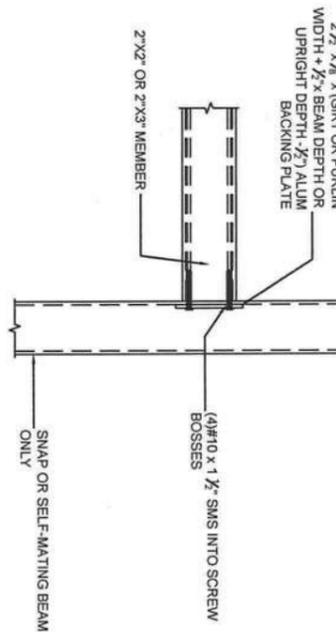
**D** UPRIGHT TO BEAM CONNECTION  
SCALE: NTS



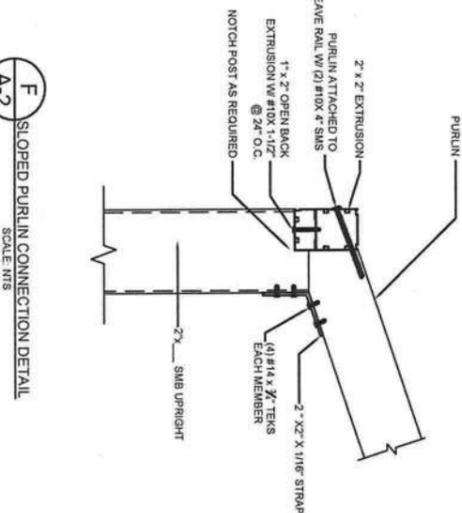
**B** 2" x 4" OR LARGER SELF-MATING UPRIGHT TO DECK DETAILS  
SCALE: NTS



**E** TYPICAL INTERNAL OR EXTERNAL GUSSET DETAIL - RIGID MEDIUM  
SCALE: NTS



**C** PURLIN OR GIRT TO BEAM OR POST DETAIL  
SCALE: NTS



**F** SLOPED PURLIN CONNECTION DETAIL  
SCALE: NTS

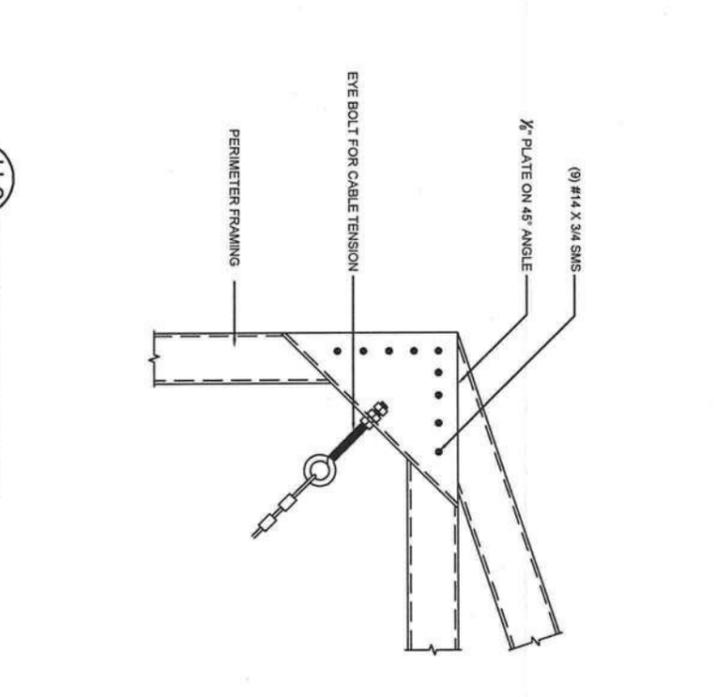
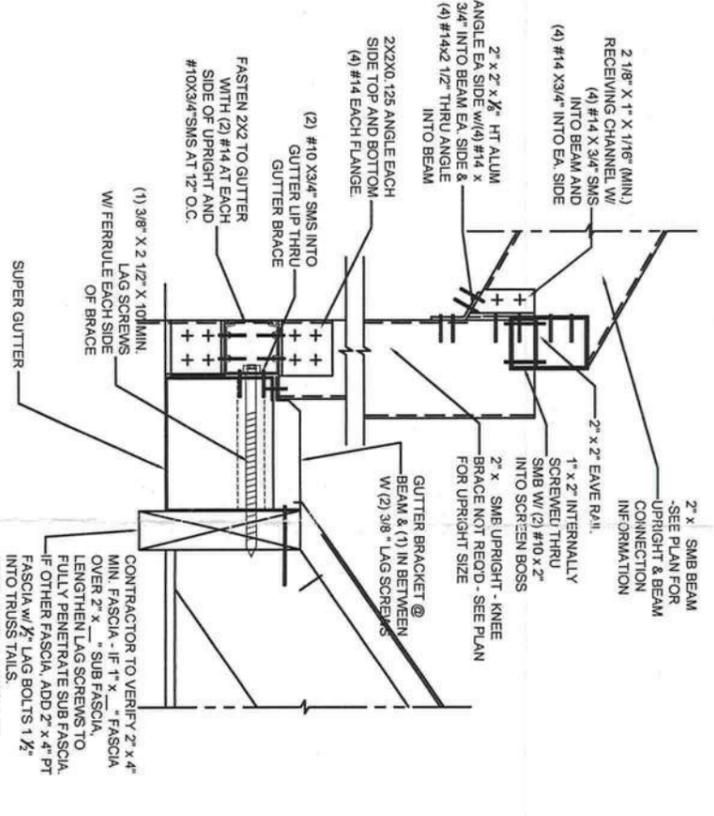
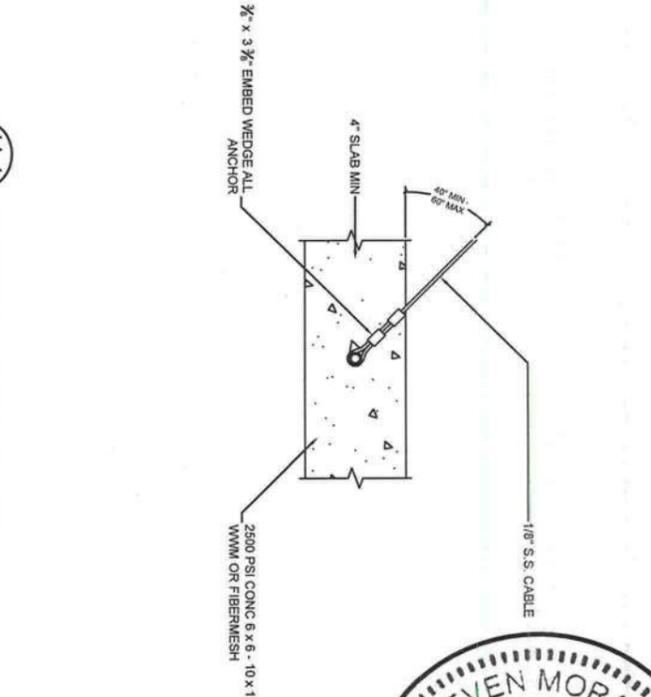
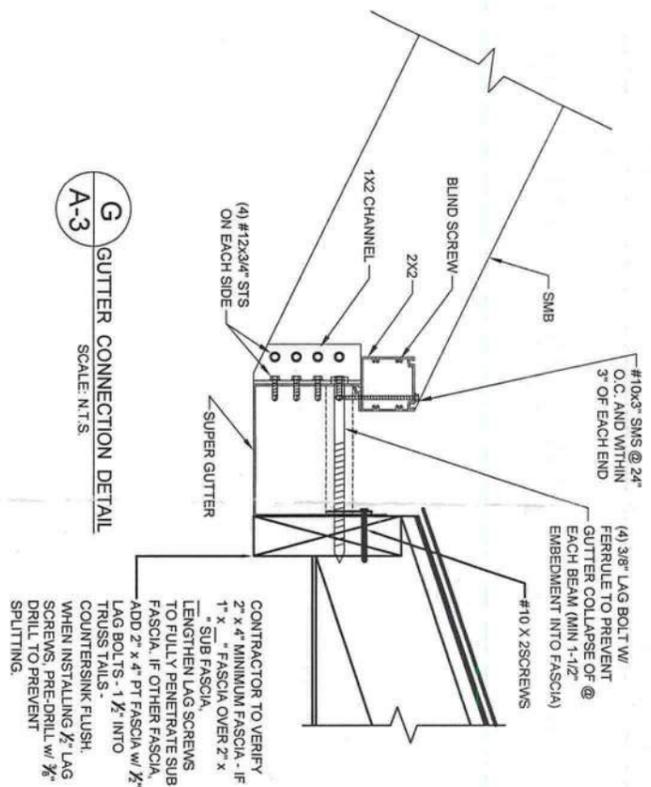


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**A-2**  
DETAILS



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**A-3**  
DETAILS