

SECTION 23, TOWNSHIP 35S, RANGE 16E

CALVIN REED LAND SURVEYING
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SARASOTA, FLORIDA. 34243
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Ans. Built for 526 Norton

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GENERAL NOTES

- A. DESIGN CRITERIA

1.0 REFERENCED STANDARDS

1.1 THE FLORIDA BUILDING CODE, 8TH EDITION (2023)

1.2 ASCE 7-22

1.3 ASTM SPECIFICATIONS FOR CONCRETE AND MASONRY-LATEST EDITION.

1.4 ACI 318-LATEST EDITION BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.

1.5 LATEST EDITION FLORIDA BUILDING CODE CH. 21 REQUIREMENTS FOR MASONRY STRUCTURES.

1.6 AA ADM1-2020

1.7 AA ASM 35-0

1.8 NATIONAL DESIGN SPECIFICATIONS FOR CONSTRUCTION DESIGN CODES AND GUIDELINES.

1.9 AAF - 20 - GUIDE TO ALUMINUM CONSTRUCTION IN HIGH WIND AREAS.

2.0 DESIGN LOADS

2.1 DESIGN WIND SPEED PER F.B.C. CH. 16 LATEST EDITION:

V_{ULT}

= 150 M.P.H

V_{ASD}

= 116 M.P.H

2.2 RISK CATEGORY = 1

2.3 EXPOSURE CATEGORY = D

2.4 ALUMINUM LOADING:

2.4.1 DEAD LOADS = MEMBERS SELF-WEIGHT

2.4.2 LIVE LOADS = 300 LB VERTICAL LOAD ON PRIMARY MEMBERS

2.4.2.1 = 200 LB VERTICAL LOAD ON SECONDARY MEMBERS

2.4.3 WIND LOADS - PER F.B.C. TABLE 2002.4 (MWFRS)

FOR UP TO 20x20x0.013" MESH SCREEN:

HORIZONTAL PRESSURE ON WINDWARD SURFACE = 51 PSF

HORIZONTAL PRESSURE ON LEEWARD SURFACES = 40 PSF

VERTICAL PRESSURE ON SCREEN SURFACE = 14 PSF

VERTICAL PRESSURE ON SOLID SURFACES = 53 PSF

2.4.3.1 FOR 18x14x0.013" MESH SCREEN, APPLIED FACTOR = 0.88

2.4.3.2 FACTOR APPLIED FOR ALLOWABLE STRESS DESIGN PRESSURES = 0.6

2.4.3.3 TORNADO VELOCITY COMPLIANCE IS NOT REQUIRED FOR RISK I OR RISK II STRUCTURES PER SECTION R301.2.1.1 OF THE FLORIDA BUILDING CODE EIGHT EDITION (2023) - RESIDENTIAL AND SECTION 16031.4 OF THE FLORIDA BUILDING

2.4.4 RAILING LOADS PER F.B.C SECTION 1607.8

2.4.4.1 LINEAR LOAD ON HANDRAILS AND GUARDRAILS = 50 PLF

2.4.4.2 CONC. LOAD ON HANDRAILS AND GUARDRAILS = 200 LB

2.4.4.3 CONC. LOAD ON INTERMEDIATE RAILS = 50 LB

B. RESPONSIBILITIES

1.0 CONTRACTOR RESPONSIBILITIES

1.1 A LICENSED CONTRACTOR SHALL PERFORM ALL SITE WORK IN ACCORDANCE WITH APPLICABLE BUILDING CODES, LOCAL ORDINANCES, ETC.

1.2 CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. WRITTEN DIMENSIONS TO TAKE PRECEDENCE OVER SCALED DIMENSIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHECK THESE PLANS FOR DIMENSIONAL ERROR AND/OR OMISSIONS PRIOR TO CONSTRUCTION. IF ANY ERRORS OR OMISSIONS EXIST IN DRAWINGS AND SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER, IN WRITING, WITHIN 10 DAYS OF RECEIPT OF PLANS AND PRIOR TO ANY CONSTRUCTION, OR CONTRACTOR ASSUMES THE RESPONSIBILITY FOR THE RESULTS AND ALL COSTS OF RECTIFYING SAME.

1.3 FOR EXISTING STRUCTURES, CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING FIELD CONDITIONS AND DIMENSIONS PRIOR TO COMMENCEMENT OF DEMOLITION, CONSTRUCTION AND/OR FABRICATION. THE CONTRACTOR SHALL VERIFY THAT THE HOST STRUCTURE/FOUNDATION IS IN GOOD CONDITION WITH SUFFICIENT STRENGTH TO SUPPORT PROPOSED STRUCTURE. THE ENGINEER OF RECORD IS TO BE CONTACTED IN WRITING FOR CLARIFICATION IF DISCREPANCIES ARISE.

1.4 THE CONTRACTOR IS RESPONSIBLE FOR ALL MEANS AND METHODS ASSOCIATED WITH WORK TO BE COMPLETED. THIS IS TO INCLUDE ALL SHORING AND/OR BRACING REQUIRED FOR COMPLETION OF PROJECT. CONTRACTOR IS RESPONSIBLE FOR PROPER USE AND INSTALLATION OF ALL FLASHING/WATER PROTECTION PER THE MANUFACTURER'S SPECIFICATIONS.

1.5 THE CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF COMPONENTS, FIXTURES, OPENINGS, AND LANDSCAPING ON THE SITE WHICH ARE NOT INCLUDED WITHIN THE SCOPE OF THIS PROJECT. IF DAMAGE OCCURS TO ITEMS NOT INCLUDED WITHIN THE SCOPE OF THIS PROJECT, THE CONTRACTOR IS RESPONSIBLE FOR RETURNING THAT ITEM TO ITS PRE-DAMAGE CONDITION.

1.6 THESE DRAWINGS AND DETAILS HAVE BEEN PREPARED AND ENGINEERED BASED ON INFORMATION PROVIDED BY THE CONTRACTOR, OWNER AND/OR MANUFACTURER. CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD PRIOR TO CONSTRUCTION IF SPECIAL SITE CONDITIONS ARISE.

- C. MATERIALS

1.0 CONCRETE / FOUNDATION

1.1 SOIL

1.1.1 ASSUMED SOIL BEARING PRESSURE = 2,000 PSF

1.1.2 PRIOR TO CONCRETE PLACEMENT, TREAT ENTIRE SUBSURFACE FOR TERMITES IN ACCORDANCE WITH F.B.C. REQUIREMENTS FOR SUNROOMS. NOT REQUIRED FOR EXTERIOR SCREEN ENCLOSURES.

1.1.3 CONCRETE PLACED OVER A MIN. 6MIL POLY VAPOR SHIELD WHERE APPLICABLE.

1.2 CONCRETE

1.2.1 ALL CONCRETE SHALL BE 3,000 PSI MINIMUM

1.2.2 CONCRETE SHALL CONFORM TO ASTM C94 FOR:

1.2.2.1 PORTLAND CEMENT, TYPE 1 - ASTM C150

1.2.2.2 3/4" AGGREGATE MAXIMUM - ASTM C33

1.2.2.3 AIR ENTRAINMENT, +/- 1% - ASTM C260

1.2.2.4 WATER REDUCING AGENT - ASTM C494

1.2.2.5 CLEAN POTABLE WATER

1.2.2.6 OTHER ADMIXTURE SHALL NOT BE PERMITTED

1.2.3 ALL SLABS ON GRADE SHALL BE 4" THICK MINIMUM

1.3 REINFORCEMENT

1.3.1 FIBERMESH (3/4" PER CUBIC YARD) MAY BE USED IN LIEU OF WELDED WIRE MESH IF APPROPRIATE ACI AND ASTM REQUIREMENTS ARE MET.

1.3.2 METAL WELDED WIRE MESH (WWW) SHALL CONFORM TO ASTM A185.

1.3.3 PREPARE AND PLACE CONCRETE IN ACCORDANCE WITH ACI MANUAL STANDARD PRACTICE PARTS 1, 2 & 3 ALONG WITH HOT WEATHER STANDARD PRACTICES RECOMMENDATIONS.

1.3.4 IF UTILIZING AN EXISTING SLAB / FOOTING, CONCRETE SLAB SHALL BE A MINIMUM OF 4" THICK AND VISIBLY FREE OF DETERIORATION, SPALLING OR EXCESSIVE CRACKING. CONTRACTOR TO VERIFY THAT EXISTING FOOTING IS A MINIMUM OF 12" WIDE AND 8" DEEP BELOW EXISTING SLAB OR 12"x12" PERIMETER STRIP FOOTING. CONTACT EOR IF FURTHER REVIEW IS WARRANTED.

2.0 ALUMINUM

2.1 ALL ALUMINUM FRAMING MEMBERS SHALL BE 6005 T5 ALLOY MINIMUM (U.N.O)

2.2 STRUCTURAL ALUMINUM DESIGN SHALL CONFORM TO "PART 1-A - SPECIFICATIONS FOR ALUMINUM STRUCTURES - ALLOWABLE STRESS DESIGN" OR "PART 1-B - SPECIFICATIONS FOR ALUMINUM STRUCTURES - BUILDING LOAD AND RESISTANCE FACTOR DESIGN" OF THE LATEST ALUMINUM DESIGN MANUAL.

2.3 PROVIDE DIELECTRIC SEPARATION WHERE ALUMINUM COMES IN CONTACT WITH STEEL OR PRESSURE TREATED LUMBER.

2.4 ACTUAL WALL THICKNESS OF EXTRUDED ALUMINUM MEMBERS SHALL NOT BE LESS THAN 0.040".

2.5 SELF-MATING BEAM SECTIONS TO BE STITCHED WITH #12 SMS SPACED AT 6" ON-CENTER FROM THE END AND 24" ON-CENTER THROUGHOUT THE REMAINDER.

2.6 MINIMUM THICKNESS FOR FORMED SHEET ALUMINUM STRUCTURAL WALL PANELS (KICK-PLATES) SHALL BE 0.024".

2.7 18x14x0.013" MESH SCREEN SHALL BE USED UNLESS APPROVED BY THE ENGINEER OF RECORD.

2.8 ROOF BRACING SHALL BE A MINIMUM OD 2"x2"x0.050".

2.9 DOOR LOCATIONS MAY BE DETERMINED IN THE FIELD BY CONTRACTOR.

2.10FOR PICTURE WINDOW MODIFICATIONS TO EXISTING SCREEN ENCLOSURES, THE CONTRACTOR SHALL VERIFY THE EXISTING SCREEN ENCLOSURE IS IN STRUCTURALLY SOUND CONDITION AND MEETS THE REQUIREMENTS OF THE DETAILS WITHIN THESE PLANS.

2.11IF ENCLOSURE CONTAINS A SWIMMING POOL OR SPA, THE ENCLOSURE SHALL MEET THE FLORIDA BUILDING CODE.RESIDENTIAL SECTION R4501.17 RESIDENTIAL SWIMMING BARRIER REQUIREMENTS IN ITS ENTIRETY.

2.12SCREEN ROOM ALUMINUM ROOF SECTIONS (COMPOSITE OR PAN) SHALL BE SELECTED/DESIGNED FOR THE WIND PRESSURE STATED WITHIN THE WIND LOADS SECTIONS OF THE GENERAL NOTES. THE SELECTION OF THESE ROOF SECTIONS WAS BASED ON THE SPAN TABLES PUBLISHED AND CERTIFIED BY INDEPENDENT FLORIDA LICENSED ENGINEERS WITH THE UP-TO-DATE N.O.A.

2.13 METAL STRUCTURES WITHIN 5 FEET OF SWIMMING POOLS SHALL BE GROUNDED PER NEC 680-2.
- 3.0 FASTENERS

3.1 ALL FASTENERS SHALL COMPLY WITH ASTM A153.

3.2 ALL CONCRETE SCREWS SHALL BE TAPCON, SIMPSON, HILTI, REDHEAD OR APPROVED EQUAL.

3.3 ALL LAG BOLTS SHALL HAVE A MINIMUM EMBED OF 8 TIMES BOLT DIAMETER INTO STRUCTURE FRAMING.

3.4 USE STAINLESS STEEL TYPE 300 18-8 FOR FASTENERS CONNECTING ALUMINUM COMPONENTS TO PRESSURE TREATED LUMBER, UNLESS OTHERWISE NOTED ON PLANS OR MANUFACTURER OF GALVANIZED BOLTS SPECIFIES FOR USE WITH PRESSURE TREATED WOOD.

- 3.5 THE MINIMUM CENTER TO CENTER SPACING FOR SMS SHALL BE 3/4" AND THE MINIMUM CENTER TO EDGE SPACING SHALL BE 1/2" UNLESS OTHERWISE NOTED.
- 3.6 FOR 1x2 MEMBERS TO MASONRY/CONCRETE, USE GALVANIZED 1/4"x2-3/4" TAPCONS OR SIMILAR AT 18" O.C. (TYP.)
- 3.7 FOR 1x2 MEMBERS TO WOOD FRAME, USE #14x2-3/4" WOOD SCREWS AT 18" O.C. (TYP.)
- 3.8 FOR 1x2 MEMBERS TO ALUMINUM, USE #10x1-1/2" SMS OR TEK SCREWS AT 18" O.C. (TYP.)
- 3.9 FOR 1x2 MEMBERS INSTALLED THROUGHOUT AN "OPEN VIEW" OR "PICTURE WINDOW" ASSEMBLY TO CONCRETE OR ALUMINUM, FASTENER SPACING SHALL BE REDUCED TO 12" O.C. MAX.
- 4.0 WELDS

4.1 MEMBERS ARE TO BE WELDED IN ACCORDANCE WITH FBC SECTION 2003.8.1.3 AND AWS D1.2

4.2 APPLICABLE STANDARDS FOR WELDED MEMBERS:

ALUMINUM ASSOCIATION, INC(AA): AA SAS-30

AMERICAN WELDING SOCIETY(AS) "STRUCTURAL WELDING CODE-ALUMINUM"

ASTM B210/B210M STANDARD SPECIFICATIONS FOR ALUMINUM ALLOY-DRAWN.

ASTM B221/B209M STANDARD SPECIFICATIONS FOR ALUMINUM ALLOY-EXTRUDED

ASTM B209/B209M, STANDARD SPECIFICATIONS FOR ALUMINUM SHEET AND PLATE

ALUMINUM EXTRUSION DIMENSIONS	
HOLLOW SECTIONS	
2 x 2	2" x 2" x 0.050"
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 0.044"
1 x 3	1" x 3" x 0.045"
SNAP SECTIONS	
2 x 2	2" x 2" x 0.045"
2 x 3	2" x 3" x 0.050"
2 x 4	2" x 4" x 0.060"
SELF-MATING SECTIONS (SMB)	
2 x 4	2" x 4" x 0.044" x 0.100"
2 x 5CL	2" x 5" x 0.050" x 0.135"
2 x 6	2" x 6" x 0.050" x 0.120"
2 x 6CL	2" x 6" x 0.050" x 0.135"
2 x 7	2" x 7" x 0.057" x 0.120"
2 x 8	2" x 8" x 0.072" x 0.224"
2 x 8CL	2" x 8" x 0.072" x 0.245"
2 x 9	2" x 9" x0.072" x 0.224"
2 x 10	2" x 10" x 0.092" x 0.374"
4 x 10	4" x 10" x0.155" x 0.388"
I-BEAM INSERT	3.5" x 8.75" x 0.130"
TUBES	
4 x 8	4" x 8" x 0.125" x 0.219"
6 x 6	6" x 6" x 0.125" (6005-T5)
2 x 6 RT	2" x 6" x 0.125"
2 x 8 RT	2" x 8" x 0.08" x 0.25"
2 x 10 RT	2" x 10" x 0.125" x 0.25"
4 x 7	4" x 7" x 0.144" x 0.190"
4 x 7 INSERT	3.297" x 5.067" x 0.126"

ALUMINUM EXTRUSION DIMENSIONS (RAILING)	
SNAP SECTIONS	
2 x 2	2" x 2" x 0.045"
2 x 3	2" x 3" x 0.050"
2 x 4	2" x 4" x 0.045"
SNAP PLATE:	HR-2 1.795x0.050
CHANNELS:	1.5"x2.125"x1.5"x0.045"
	2"x3.125"x2"x0.045"
PICKETTS:	1" TUBULAR/HOLLOWx0.050"
TOP CAPS:	HR-1 2.5x1.625x0.050
	HR-14 1.964x1.482x0.050
BOTTOM CHANNEL:	1"x1.5"x0.093"
POST CHANNEL:	2"x2"x0.125"

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A25-121506

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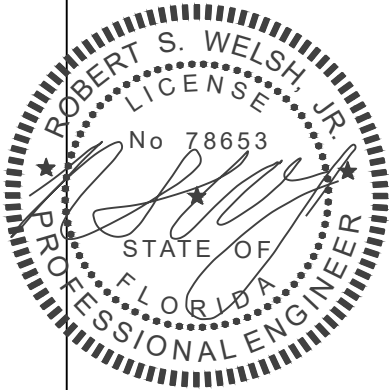
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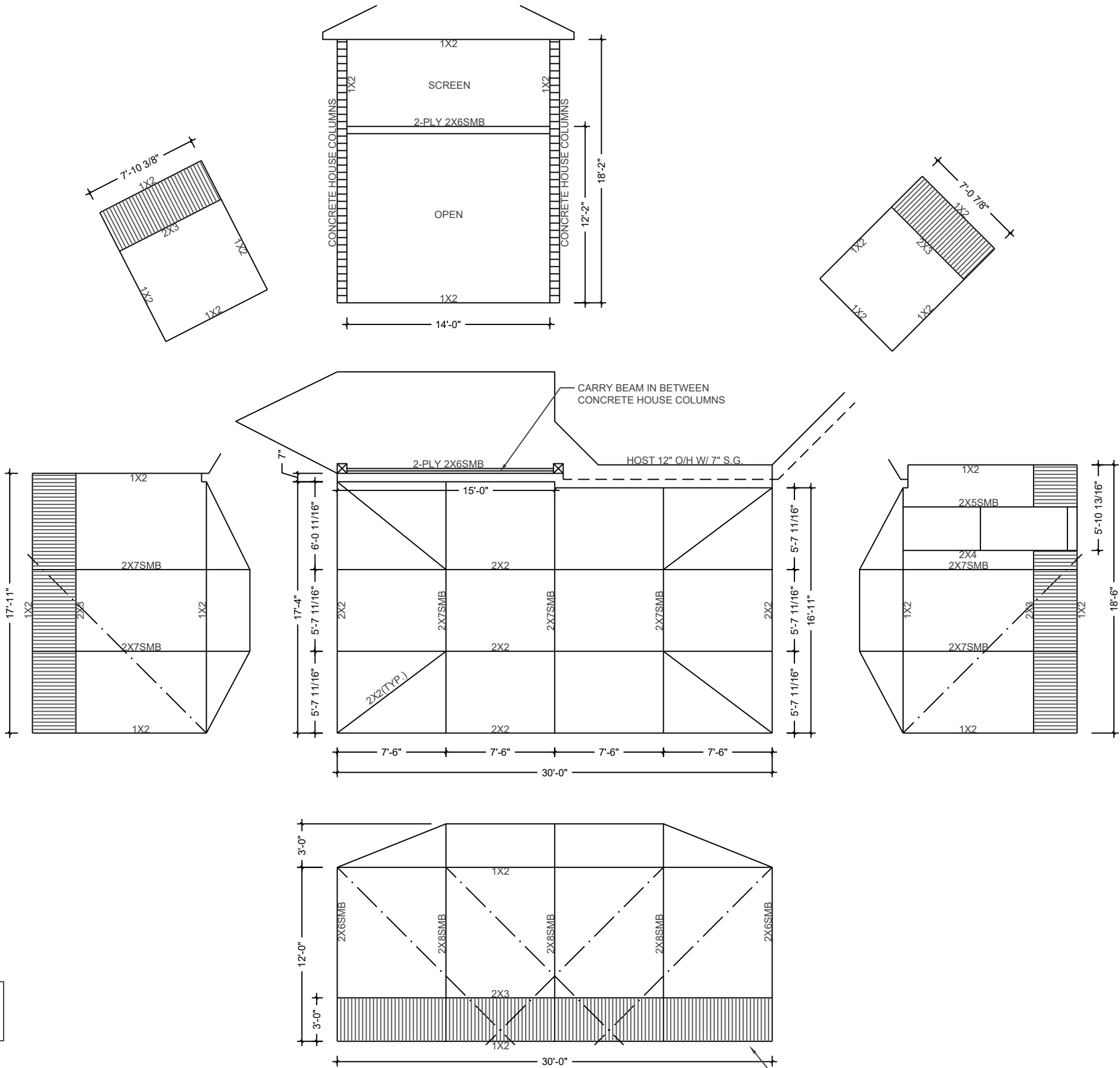


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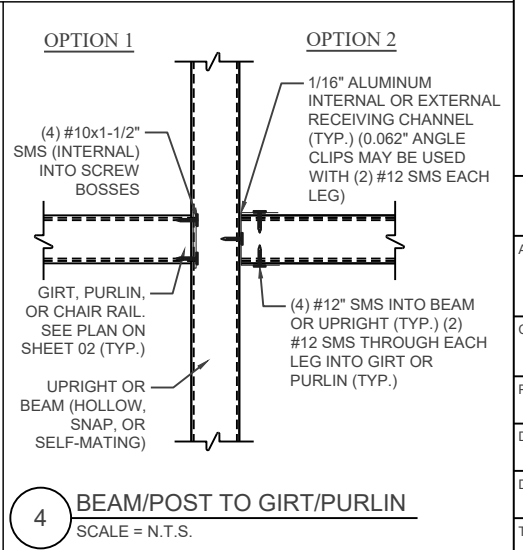
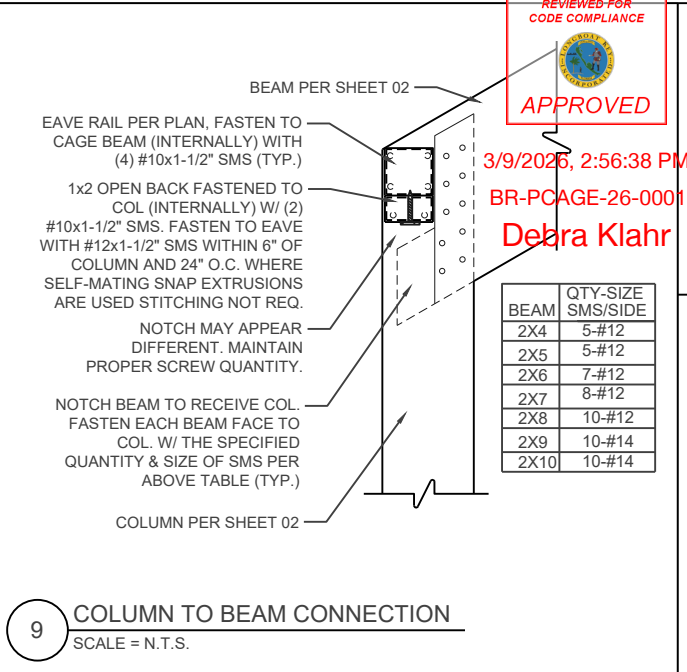
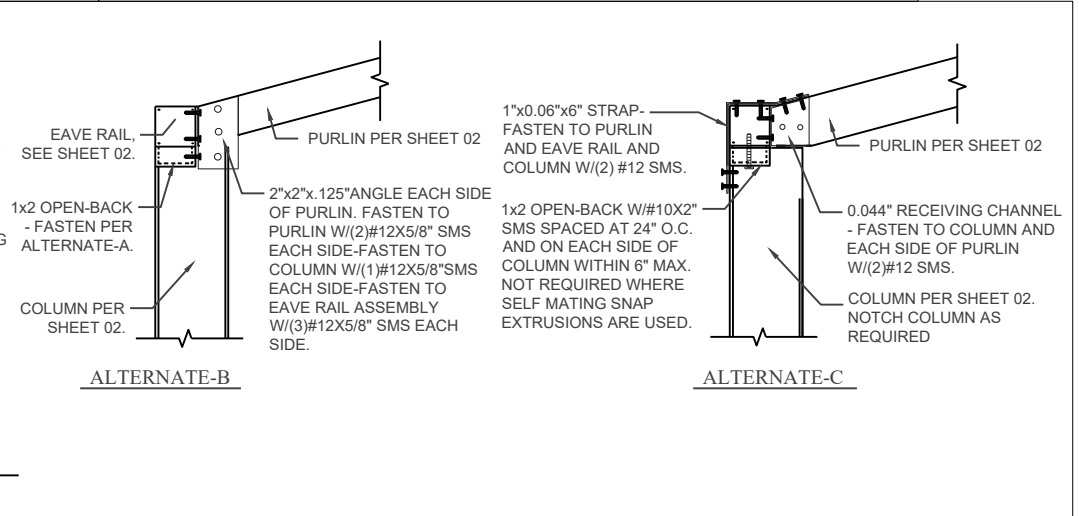
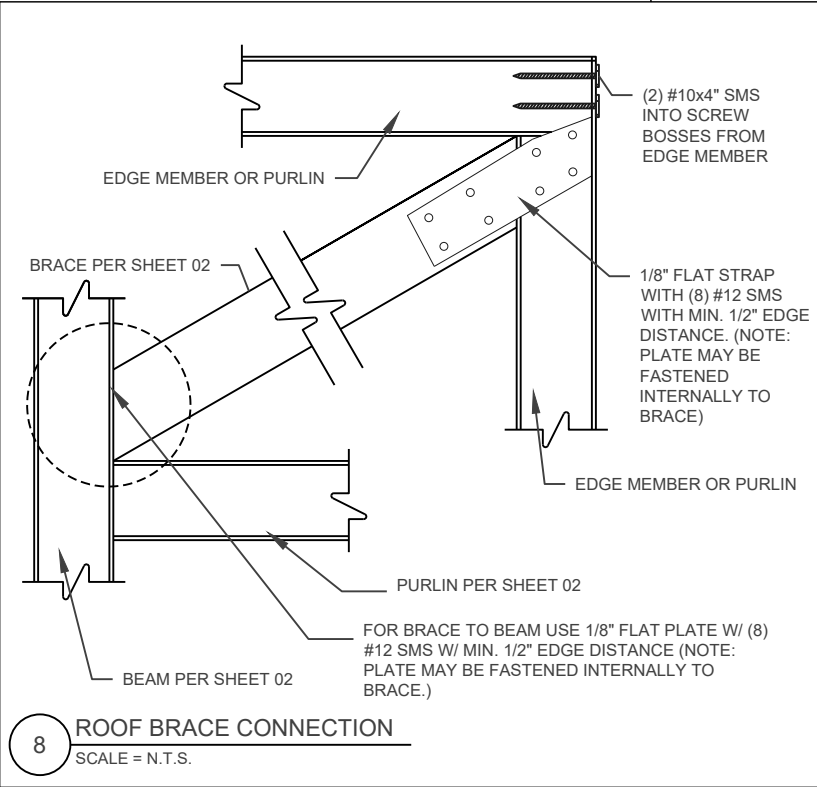
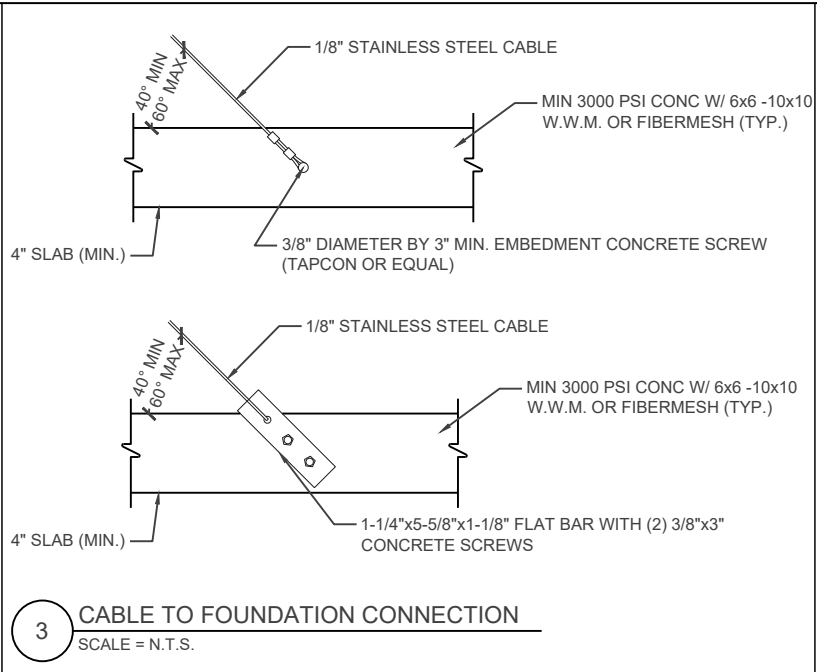
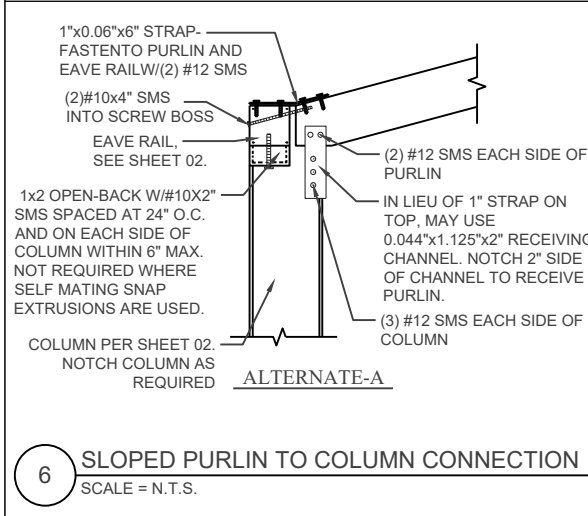
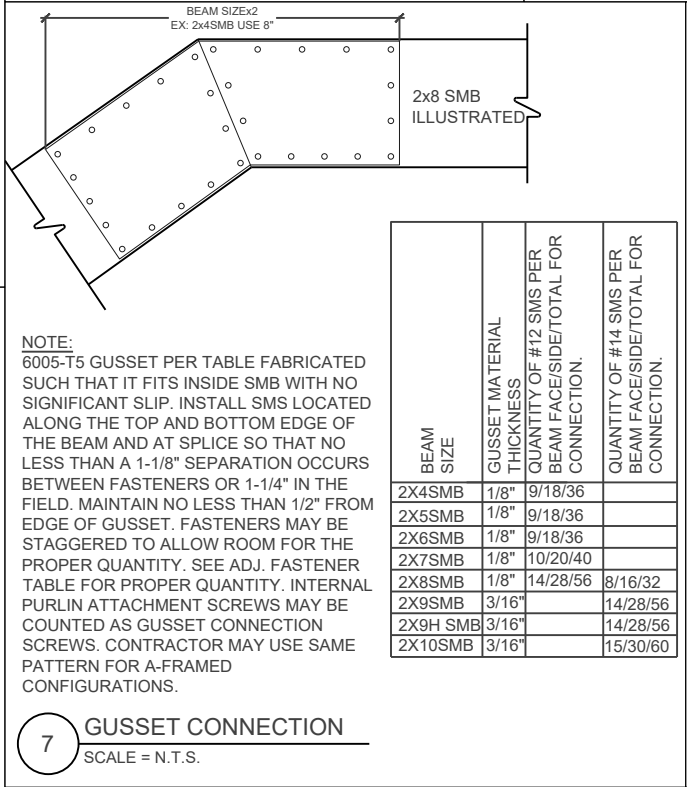
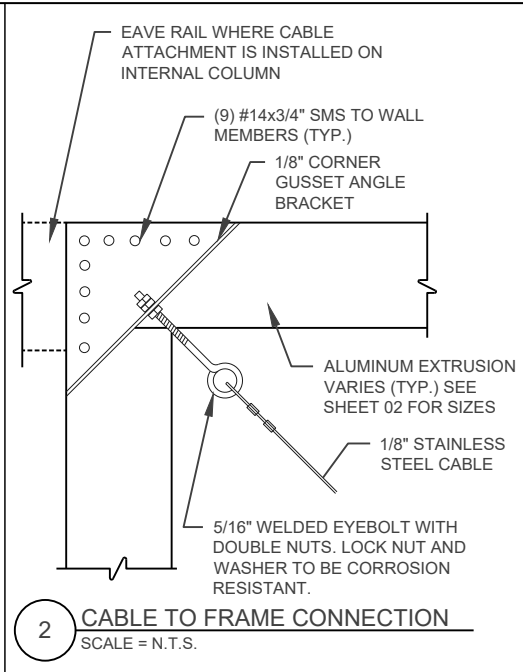
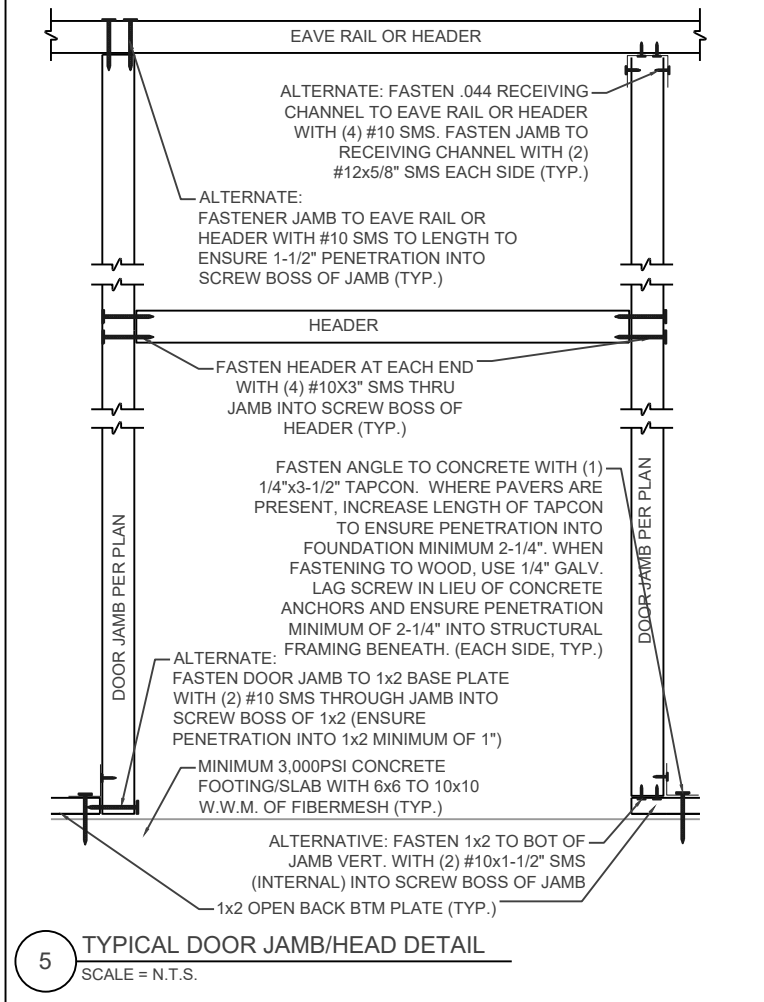
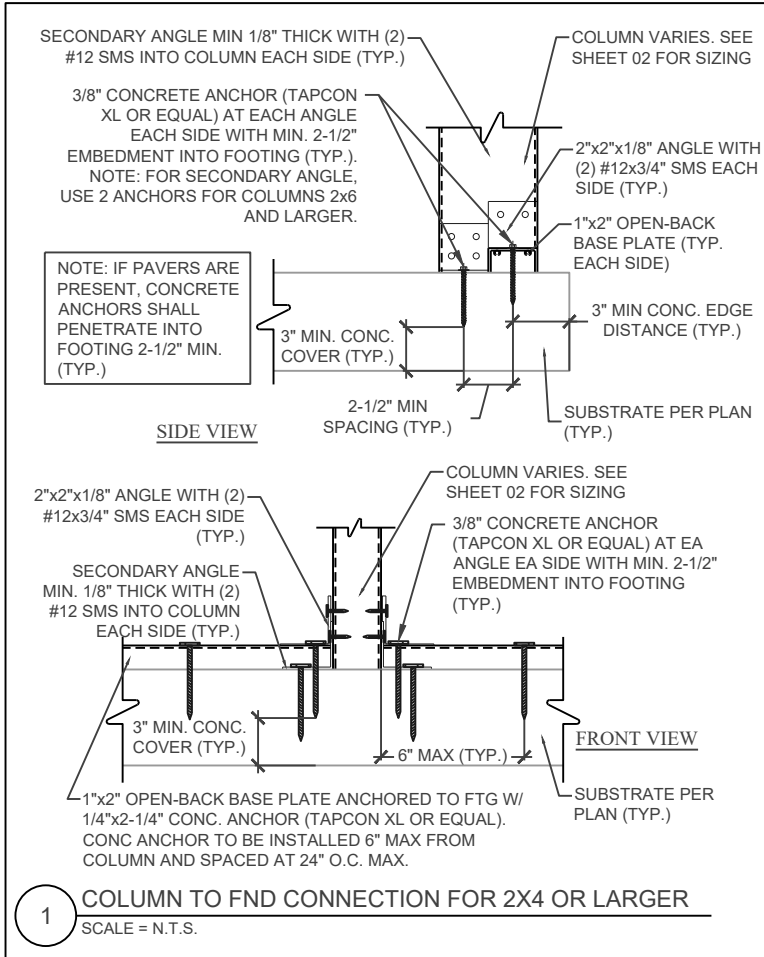
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LEGEND:
- . - . INDICATED CABLE BRACING.
SEE DETAILS 2/03 AND 3/03

PLAN VIEW
SCALE = 1/8" = 1'-0"



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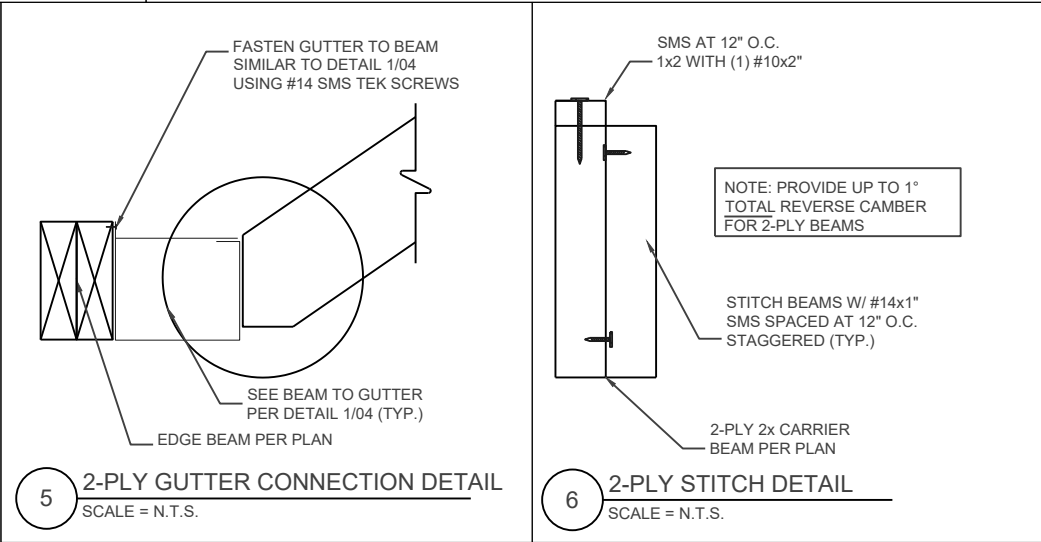
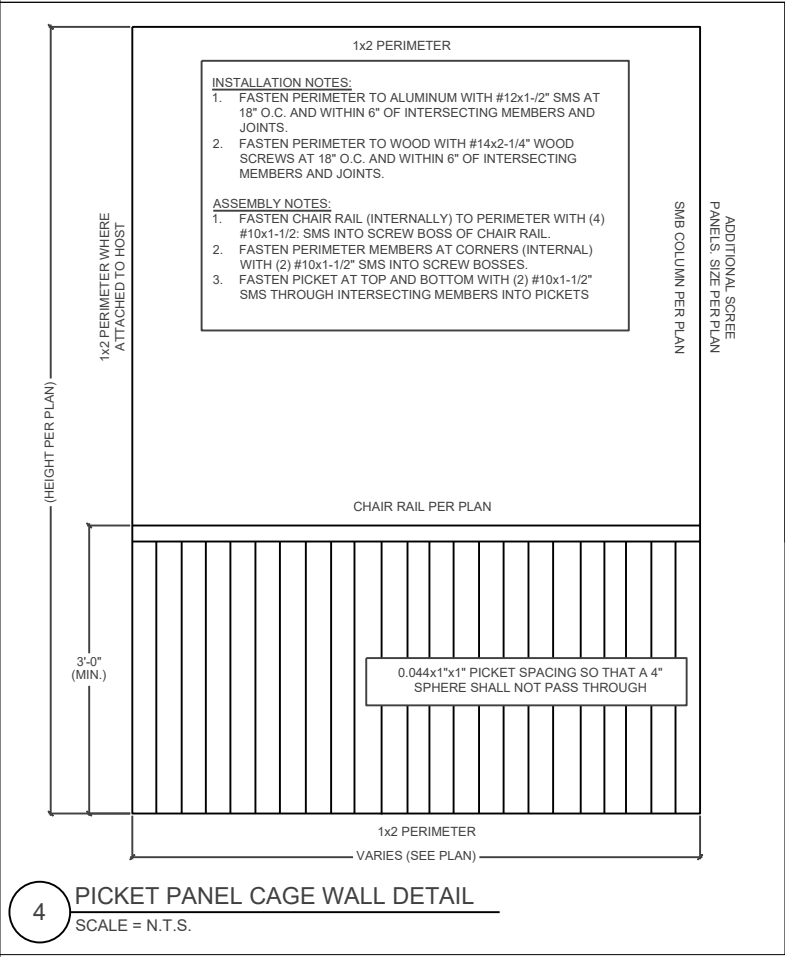
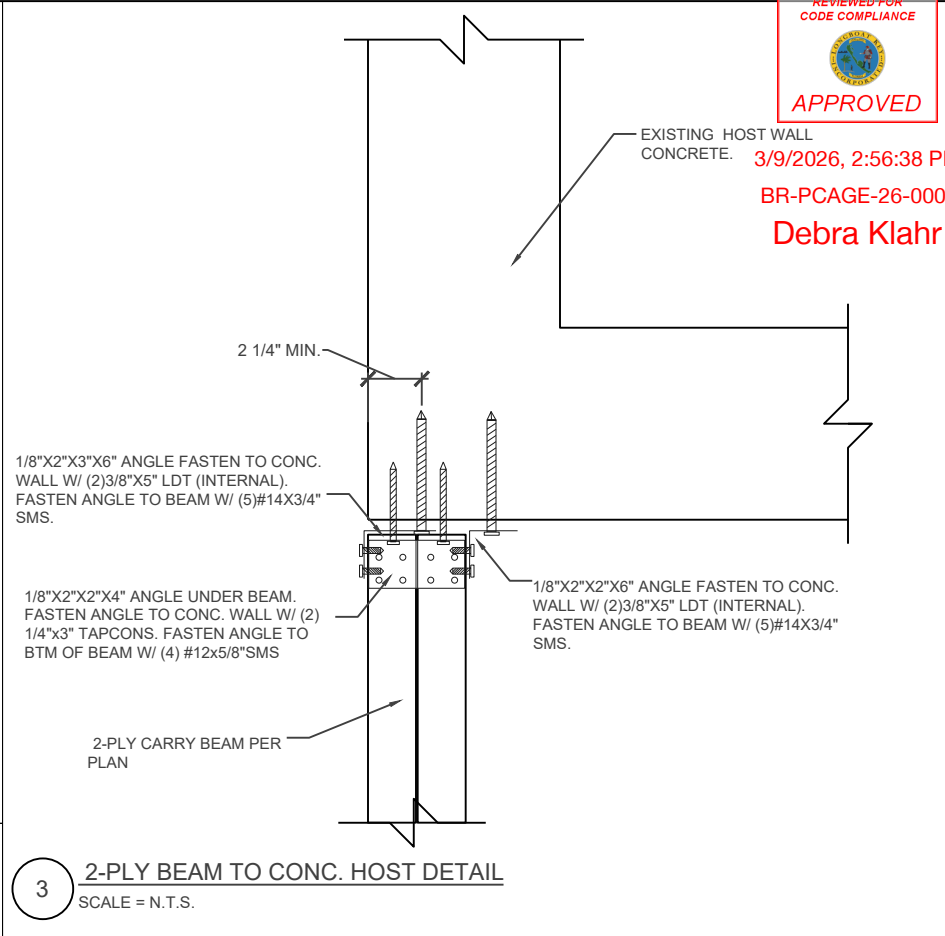
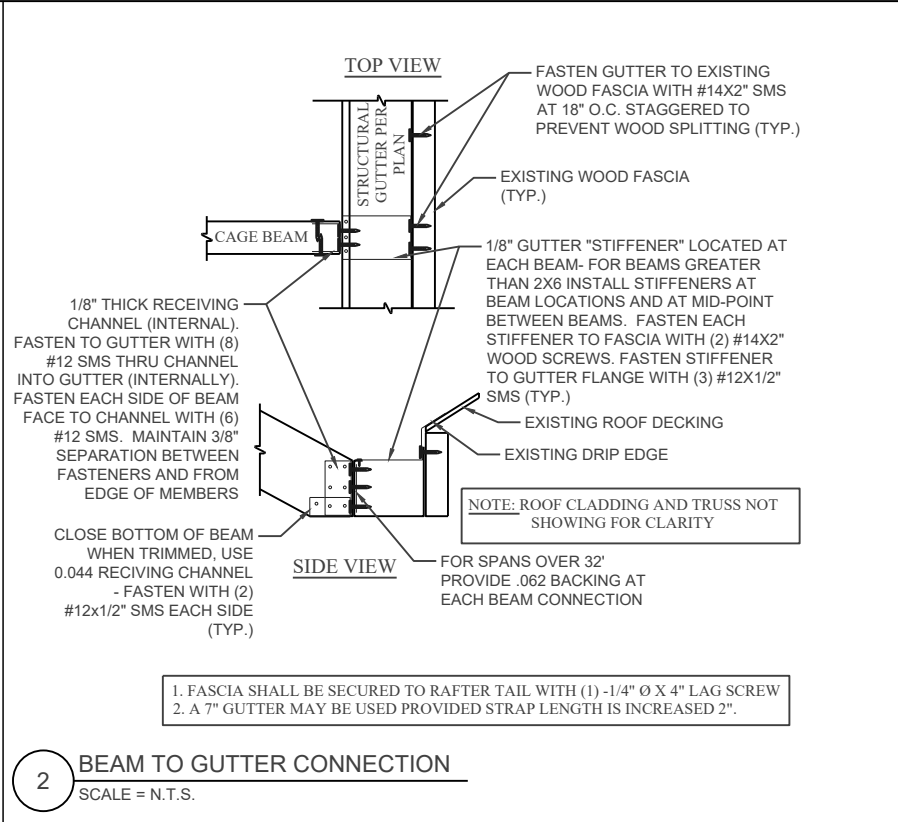
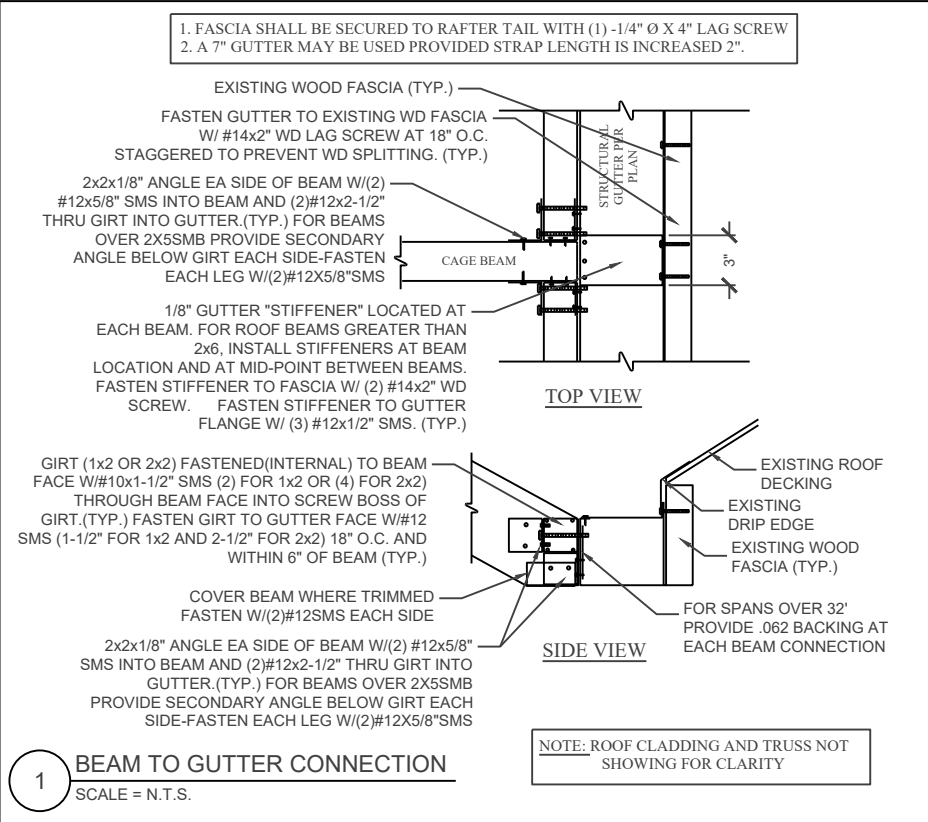
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