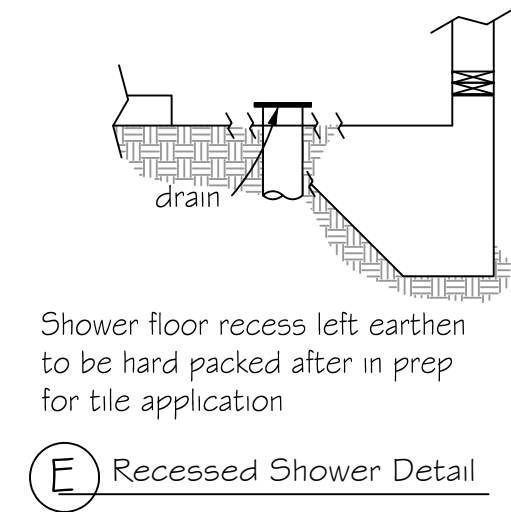
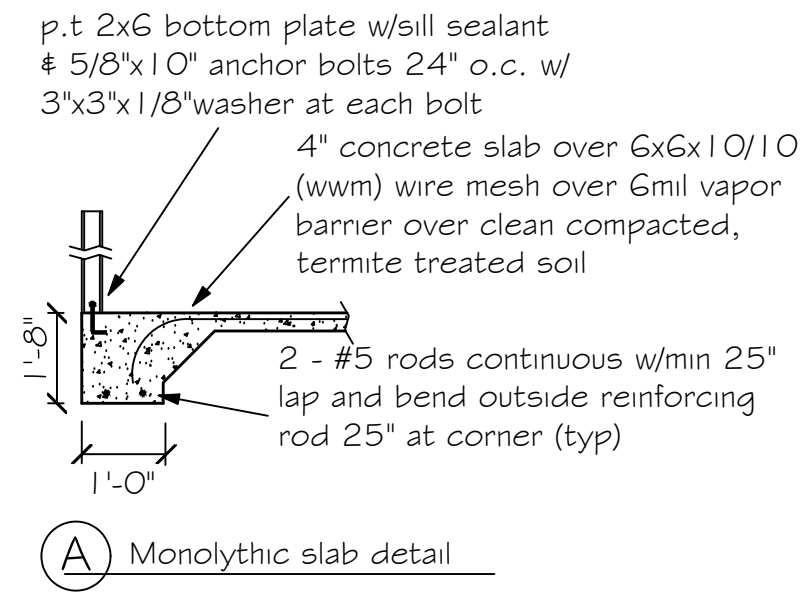


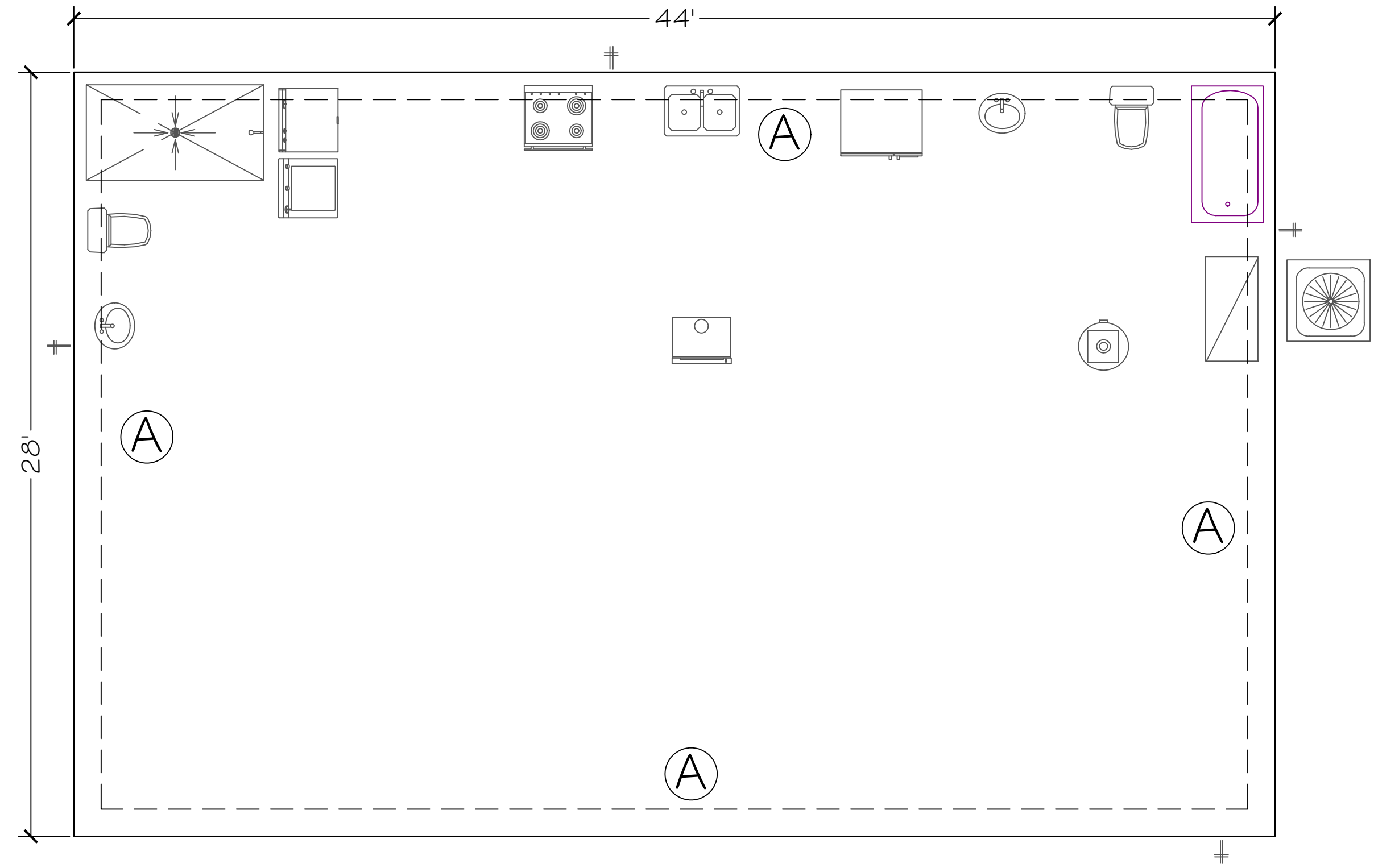
DESIGN SPECIFICATIONS

- DESIGN CODES:
2023 FLORIDA BUILDING CODE (FBC) - RESIDENTIAL
- OCCUPANCY: RESIDENTIAL GROUP R-3 (ONE- AND TWO-FAMILY DWELLINGS)
- DESIGN LOADS:
ROOF CONVENTIONAL FRAMING:
LL 20 PSF RAFTERS
LL 20 PSF CEILING JOISTS
DL 10 PSF RAFTERS
DL 10 PSF CEILING JOISTS
DL 30 PSF ATTICS WITH STORAGE
DL 10 PSF ATTICS W/O STORAGE
- FLOORS:
LL 40 PSF TOP CHORD
LL 0 PSF BOTTOM CHORD
DL 10 PSF TOP CHORD
DL 5 PSF BOTTOM CHORD
- NUMBER OF STORIES: 1
- TYPE OF CONSTRUCTION: TYPE V-6, UNPROTECTED, UNSPRINKLERED
- WIND ZONE INFORMATION
BUILDING: ENCLOSED STRUCTURE
ULTIMATE DESIGN WIND SPEED: 130 MPH
NOMINAL DESIGN WIND SPEED: 110 MPH
BUILDING RISK CATEGORY: II
WIND EXPOSURE CATEGORY: C
INTERNAL PRESSURE COEFFICIENT: 0.18 CGpi ±



FOUNDATION NOTES

- REFER TO ARCHITECTURAL & BUILDING PLANS FOR ACTUAL DIMENSIONS, RECESSES IN SLAB, STEP DOWNS, ETC.
- CONTRACTOR SHALL VERIFY ALL ROUGH PLUMBING LOCATIONS WITH OWNER PRIOR TO POURING SLAB
- THE SLAB SHALL BE 4" CONCRETE SLAB REINFORCED w/ 6X6-1.4/1.4 WELDED WIRE MESH PLACED ON CHAIRS: 1 1/2" DEPTH OR FIBER MESH CONCRETE, 6-MIL POLY VAPOR BARRIER w/ 6" LAPS SEALED w/ POLY TAPE OVER TERMITE-TREATED & COMPACTED FILL
- BOTTOM OF EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 12" BELOW UNDISTURBED SOIL OR ENGINEERED FILL
- SOIL UNDER FOOTING SHALL BE COMPRESSED TO 2000 PSF AT 95% DENSITY. CONCRETE STRENGTH SHALL BE 2500 PSI.



FOUNDATION PLAN
SCALE: 1/4" = 1'



MATHIS RESIDENCE
 FOUNDATION PLAN
 171 SE ALFRED MARKHAM STREET, LAKE CITY, FL
 PREPARED FOR: MIKE MATHIS, mathismathis@att.net
 DATE: OCT. 27, 2025
 SHEET: 5-1

ROOF VENT CALCULATION

FORMULA

1 SQUARE INCH FOR EVERY 300 SQUARE INCHES OF CEILING
 1.44 SQUARE INCHES = 1 SQUARE FOOT
 BUILDING CEILING (50 FT) x 1.44 = BUILDING (50 SQ IN)
 BUILDING (50 IN) x 300 = 50 IN OF VENT REQUIRED
 50 IN OF VENT REQUIRED ÷ 2 = 25 IN OF VENT REQUIRED AT LOW
 PER IRC SECTION R803.2.4.026 MIN. BUT NOT MORE THAN 50% OF
 VENTILATION MUST BE PROVIDED BY VENTILATORS LOCATED A
 MIN 3'-0" ABOVE EAVE

BASE OF CALCULATION:

(a) OFF EDGE VENTS - STAMPCO W 36 SQ IN (IN)VA PER LINEAL FT
 (b) SOFFIT VENTS - GP T3-1/3" FULL VENT PERFORATED W 9.19 SQ IN
 (IN)VA PER LINEAL FT

CALCULATED LINEAL FOOT OF SOFFIT VENT SHALL NOT INCLUDE
 NON-VENTED FIRE RATED SOFFITS LOCATED LESS THAN 5' FROM
 PROPERTY LINE

AREA (SQ FT)	REQUIRED (SQ IN)	PROVIDED (SQ IN)	LINEAL FT	LOW (SQ IN)

SOFFIT TABLE VENT SPECS

Double 5" perforated soffits have a 6.20 sq. inches/bay, foot rating
 Triple 4" center vent soffits has a 1.95 sq. inches/bay, foot rating
 Triple 4" full vent soffits has a 5.627 sq. inches/bay, foot rating
 Triple 4" basketweave full vent has a 1.4.34 sq. inches/bay, foot rating
 Triple 4" center vent has a 4.70 sq. inches/bay, foot rating
 Beaded hidden vent soffits has 2.66 sq. inches/bay, foot rating
 Triple 3-1/2" hidden vent soffits has a 9.19 sq. inches/bay, foot rating

NOTE
 7/16" O.S.B. NAILED WITH 8D 6"
 O.C. IN FIELD & 4" O.C. ON EDGES

NOTE
 Simpson Strong-Tie Co. Strong-Drive SDWC TRUSS Screws may be used for uplift connection in lieu of straps. Strong-Drive SDWC TRUSS Screws to be installed per manufacturer's specifications.

Simpson Strong-Tie Co. Titen HD Heavy-Duty Screw Anchors 5/8" x 8", maximum spacing of 24" o.c., may be used in lieu of 5/8"x10" anchor bolts with 3"x3"x1/8" washer. Titen HD Heavy-Duty Screw Anchors shall be installed per manufacturer's specifications.

ROOF SHEATHING FASTENING

- 4" O.C. GABLE END
- 6" O.C. EDGES (ALL ZONES)
- 6" O.C. INTERMEDIATE FRAMING (ZONE 3)
- 12" O.C. INTERMEDIATE FRAMING (ZONES 1 & 2)

SEE FIGURE R803.2.3.1, SECTION R803.1, 2023 FLORIDA BUILDING CODE - RESIDENTIAL, 8TH EDITION FOR ROOF SHEATHING NAILING ZONES

ROOF NOTES

ROOF FITCH LESS THEN 4 1/2 DBL LAYER OF UNDERLAYMENT IS REQUIRED
 OVERLAP ROOFING UNDERLAYMENT 4(MIN) OVER HIPPS AND RIDGES

BUTTON CAP NAILS ARE USED TO FASTEN UNDERLAYMENT TO ROOF DECK WHEN SHINGLES NOT INSTALLED SAME DAY

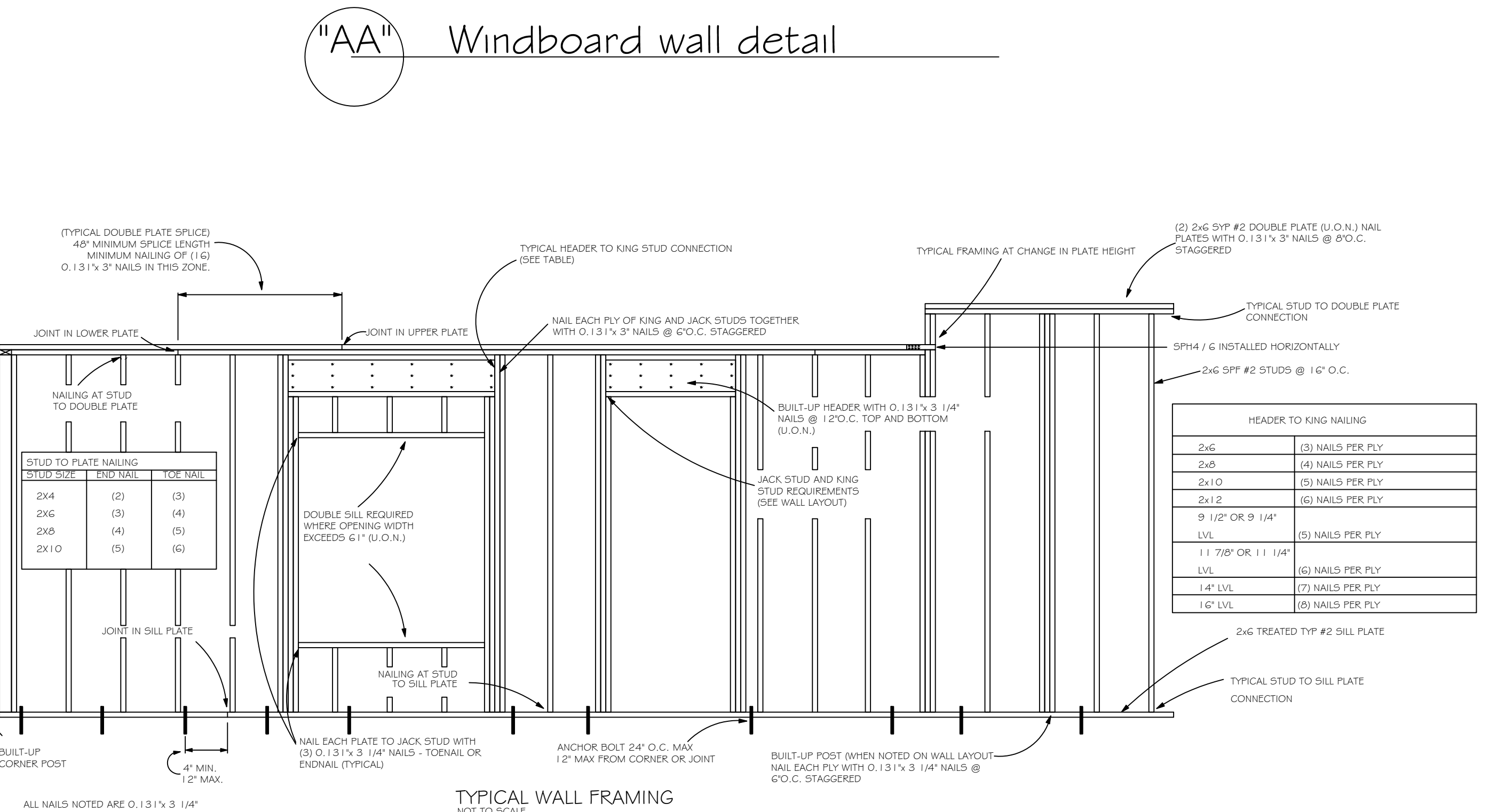
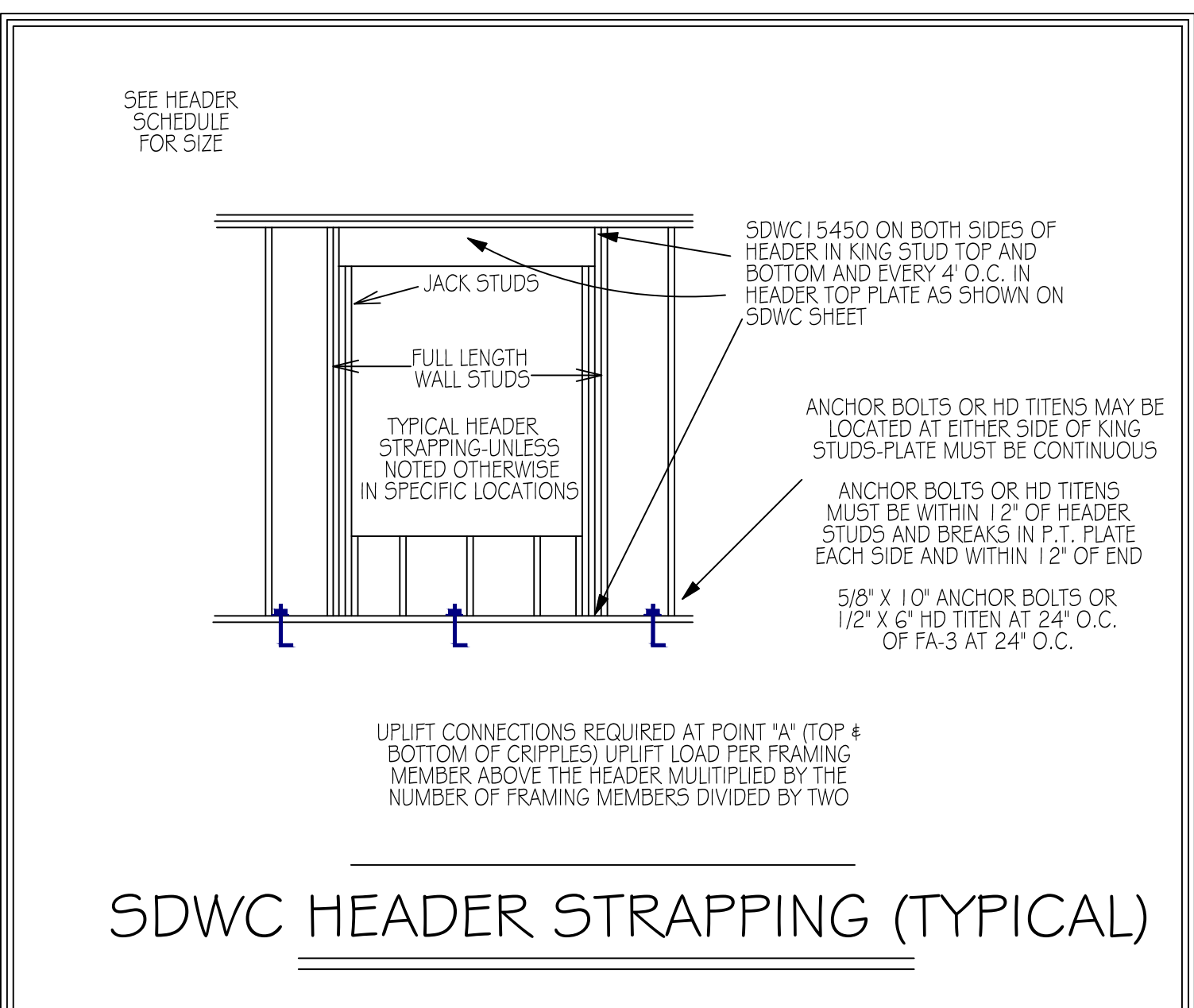
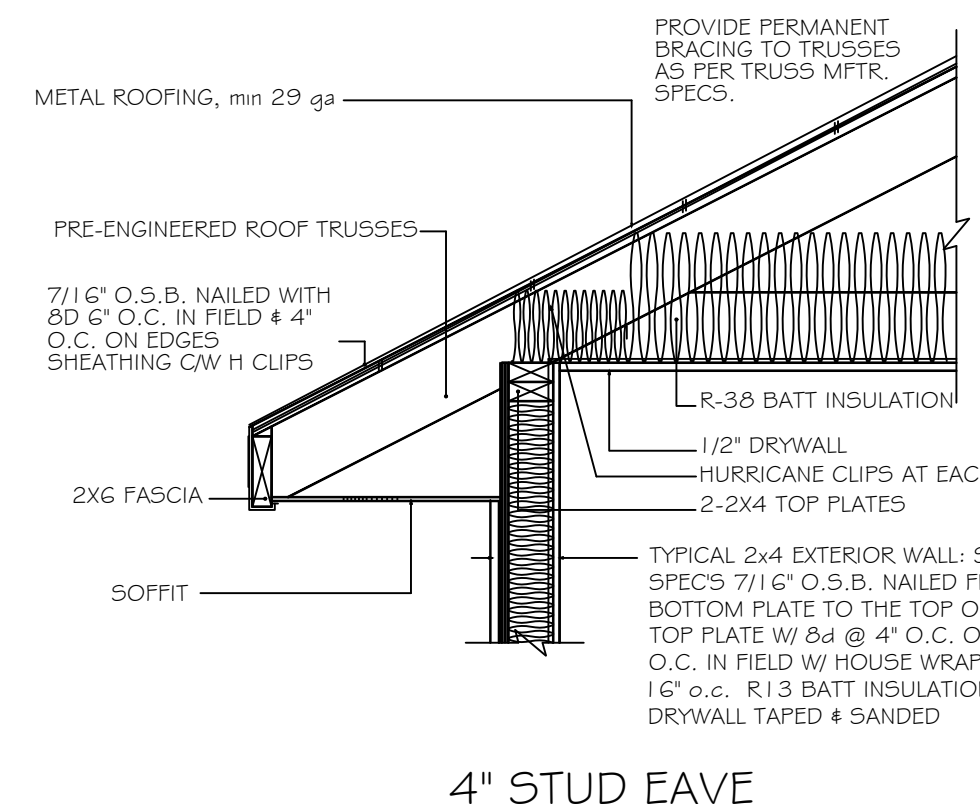
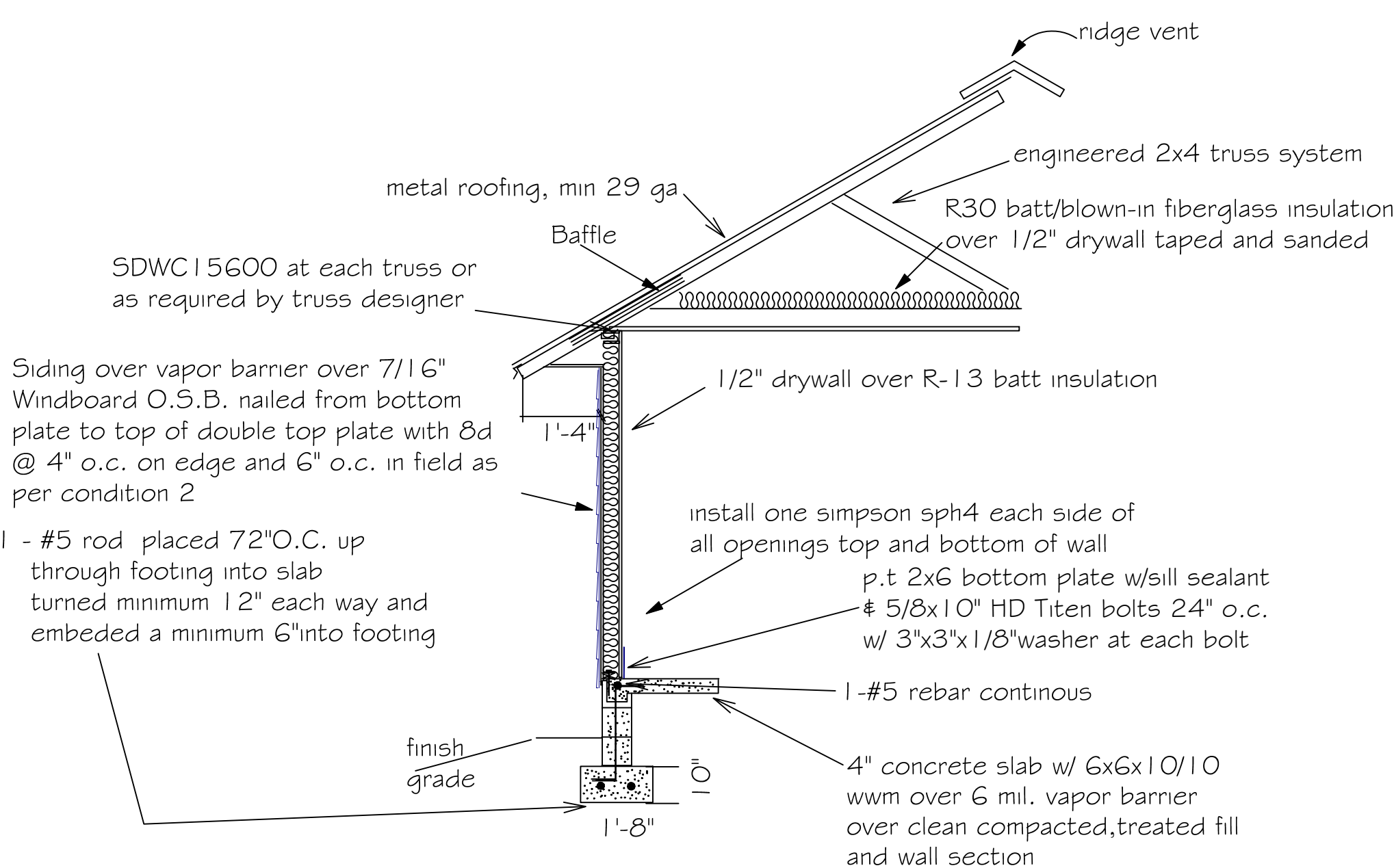
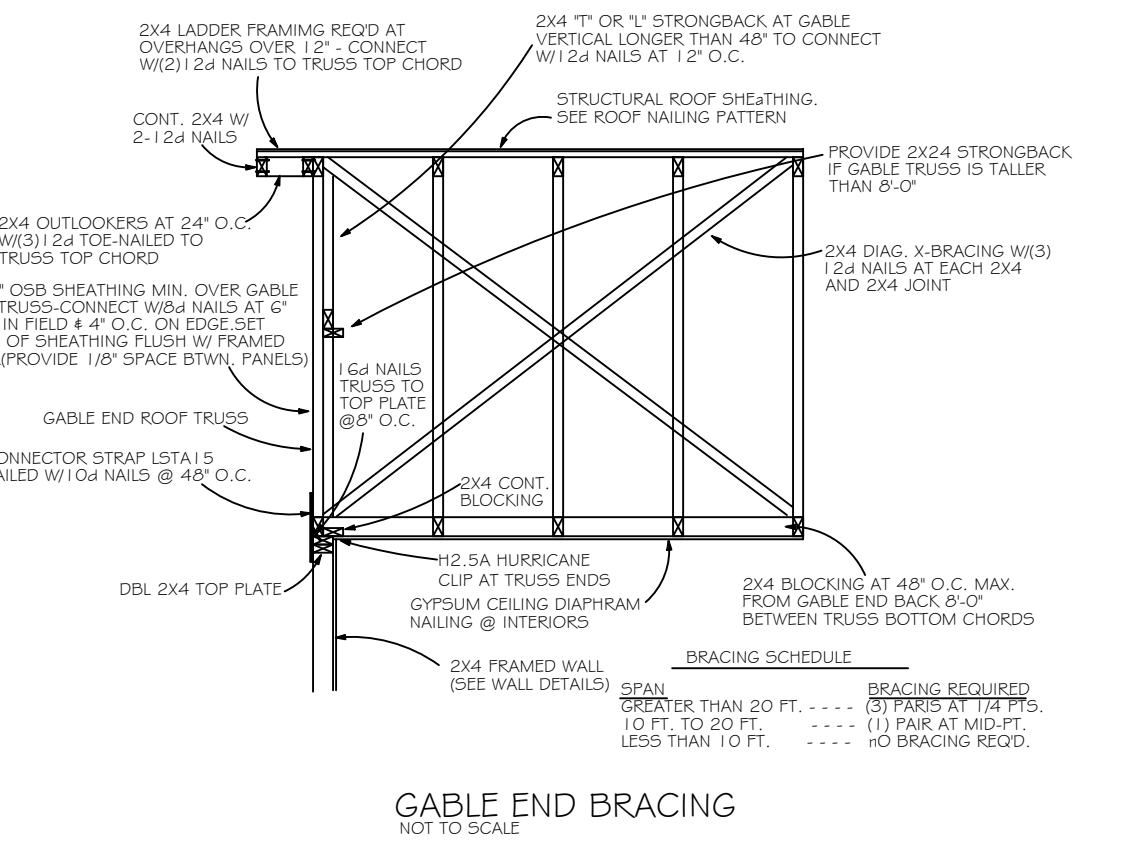
DRIP EDGE INSTALLED OVER THE UNDERLAYMENT AT RAKES AND UNDER THE UNDERLAYMENT AT EAVES

ALL ROOF PENETRATIONS ARE PROPERLY FLASHED W/ FLASHING OF THE CORRECT SIZE FOR THE PENETRATION

METAL ROOFING ATTACHED W/ CORRECT FASTENERS PER CODE AND MANUFACTURERS SPECS

1" SPACE IS MAINTAINED BETWEEN THE END OF THE GUTTER AND THE WALL CLADDING

IF ANY DISCREPANCIES ARE FOUND IN THE PLANS, THE ENGINEERED PLANS SHALL APPLY.



HEADER SCHEDULE

2X STUD CONTINUOUS TO TOP PLATE

HEADER - CONTINUOUS

2 - 2X STUDS UNDER LINTELS WITH OPENINGS LARGER THEN 5'-0"

NOTE:
 UPLIFT CONNECTION IS REQUIRED AT EACH END OF HEADER AND AT BOTTOM OF HEADER STUDS IN ADDITION TO CONNECTORS AT WALL STUDS AND AT TOP AND BOTTOM OF CRIPPLES

OPENING WIDTH	BEARING OR SHEAR WALL	NON-BEARING WALLS	MAXIMUM HEADER SPAN					
			3'	6'	9'	12'	15'	18'
0'-0" TO 3'0"	2 - 2 X 6's	2 - 2 x 4's						
3'-1" TO 5'-0"	2 - 2 x 10's	2 - 2 x 6's						
5'-1" TO 7'-0"	2 - 2 x 10's	2 - 2 x 8's						
7'-1" TO 10'-0"	2 - 2 x 10's	2 - 2 x 10's						

NUMBER OF HEADER STUDS SUPPORTING END OF HEADER	
1	1
2	2
2	2
2	2

NUMBER OF FULL LENGTH STUDS AT END OF HEADER	
	2

CAROL CHADWICK, P.E.
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF FLORIDA
 LICENSE NO. 12855
 EXPIRES 12/31/2025

MATHIS RESIDENCE
 FRAMING DETAILS
 171 SE ALFRED MARKHAM STREET, LAKE CITY, FL

DATE: 10/27/2025
 SHEET: 5-2

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This document has been digitally signed and sealed by Carol Chadwick, P.E. on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.