

DESIGN SPECIFICATIONS

DESIGN CODES:

- 2017 FLORIDA BUILDING CODE (FBC) - RESIDENTIAL
- ASCE 7-10, 2005
- NDS, ACI, ATC, AMFA, AFA, ICC 600-08

- OCCUPANCY: RESIDENTIAL GROUP R-3 (ONE- AND TWO-FAMILY DWELLINGS)

DESIGN LOADS:

- ROOF TRUSS:
 - LL 20 PSF TOP CHORD
 - LL 0 PSF BOTTOM CHORD
 - DL 7 PSF TOP CHORD
 - DL 5 PSF BOTTOM CHORD

- 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

- MAXIMUM HEIGHT OF STRUCTURE:

- 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 ±

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 42" 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, 2017 FLORIDA BUILDING CODE - RESIDENTIAL, SIXTH EDITION FOR ROOF SHEATHING NAILING ZONES

ROOF NOTES

ROOF PITCH LESS THEN 4/12 DBL LAYER OF UNDERLAYMENT IS REQUIRED

OVERLAP ROOFING UNDERLAYMENT 4(MIN) OVER HIP'S 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

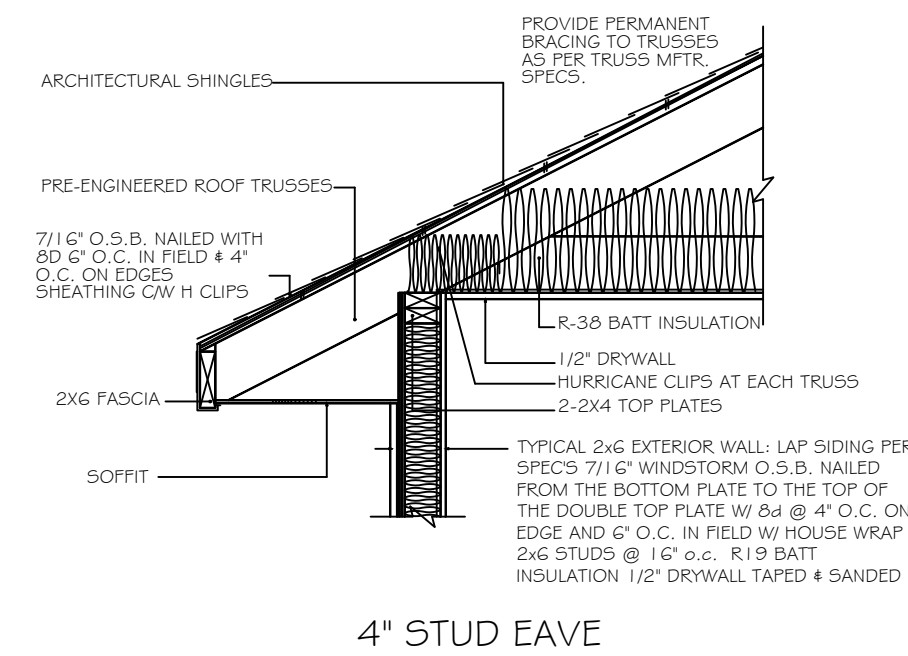
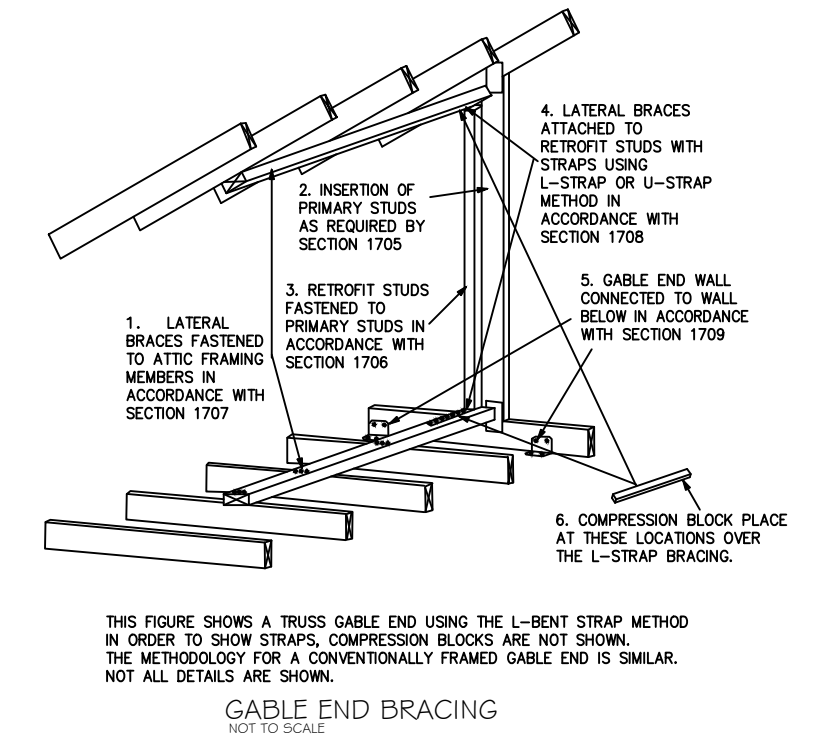
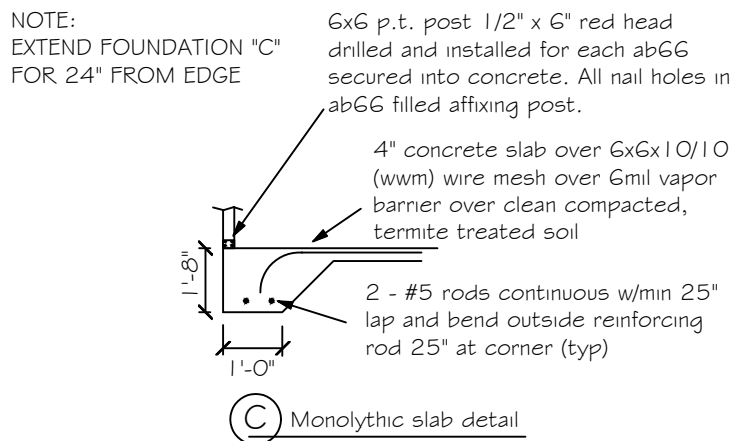
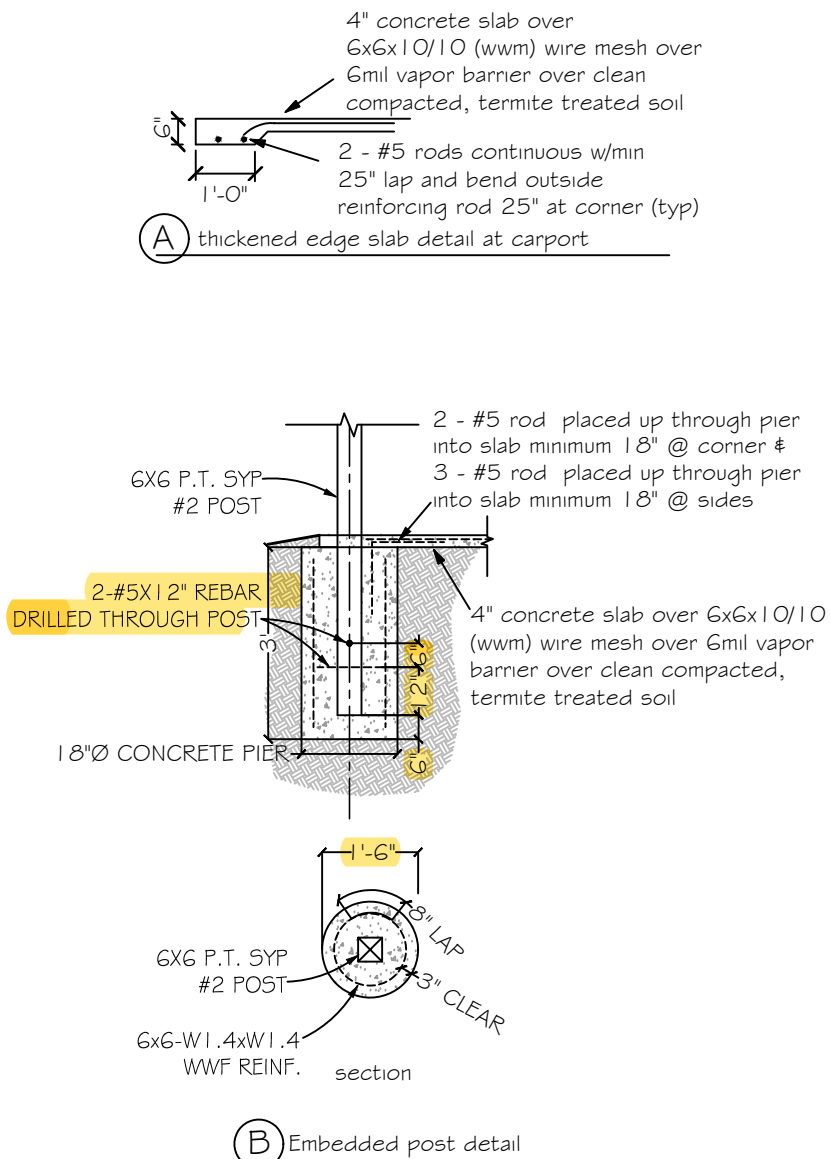
Double 1 3/4" x 9-1/4" LVL beam over opening up to 12'
Double 1 3/4" x 11-7/8" LVL beam over opening over 12' and up to 14'
Double 1 3/4" x 14" LVL beam over opening over 14' and up to 16' with 3 king studs each end and 2 trimmers each end of beam. Fastened with 12d nails to top plate and framing members. One P2x2 at both sides of opening embedded min 4" into concrete. LST18 strap over trimmer to header each side.

FOUNDATION NOTES

- 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 PER FBC-RES. SECTION R403.1.4

NOTE:

SOIL UNDER FOOTING SHALL BE COMPACTED TO 2000 PSF AT 95% DENSITY. CONCRETE STRENGTH SHALL BE 2500 PSI



ROOF VENT CALCULATION							
SOPRISA							
1 SQUARE INCH FOR EVERY 300 SQUARE INCHES OF CEILING (444 SQUARE INCHES = 1 SQUARE FOOT)							
BUILDING CEILING 850 FT ² x 1.44 = BUILDING 1224 SQ IN							
BUILDING 1224 SQ IN / 300 = 4.08 IN OF VENT REQUIRED							
50 IN OF VENT REQUIRED (2 = 50% AT HIGH AND 50% AT LOW)							
PER FBC SECTION R806.2 40% MIN, BUT NOT MORE THAN 50% OF VENTILATION MUST BE PROVIDED BY VENTILATORS LOCATED A MIN 5'-0" ABOVE EAVE							
BASE OF CALCULATION:							
(a) OFF RIDGE VENTS - STAMPED W/ 36 SQ IN (R19) PER LINEAL FT							
(b) SOFFIT VENTS - 13-1/8" FULL VENT PERFORATED W/ 9.19 SQ IN (R19) PER LINEAL FT							
CALCULATED UNLSA FOOT OF SOFFIT VENT SHALL NOT INCLUDE NON-VENTED FIRE RATED SOFFIT LOCATED LESS THAN 5' FROM PROPERTY LINE							
AREA (SQ FT)	REQUIRED (SQ IN)	PROVIDED (SQ IN)	FRONT	LOW	VENTS	REAR	LINEAL FT
TOTAL: 111 & 1/2 IN = 216 SQ IN							
LOW (111 UNLSA FT = 25.5 SQ IN)							
SOFFIT TABLE VENT SPECS							
Double 5" perforated soffit has a 6.20 sq. inches/bay, foot rating							
Triple 4" center vent soffit has a 1.956 sq. inches/bay, foot rating							
Triple 4" full vent soffit has a 5.067 sq. inches/bay, foot rating							
Triple 4" basketweave full vent has a 14.34 sq. inches/bay, foot rating							
Triple 4" center vent has a 4.76 sq. inches/bay, foot rating							
Decaded hidden vent soffit has 2.66 sq. inches/bay, foot rating							
Triple 3-1/8" hidden vent soffit 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

