

DESIGN SPECIFICATIONS

- DESIGN CODES:
 - 2017 FLORIDA BUILDING CODE (FBC) - RESIDENTIAL
 - ASCE 7-10, 2005
 - NDS, ACI, ATIC, 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 HIPS 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'

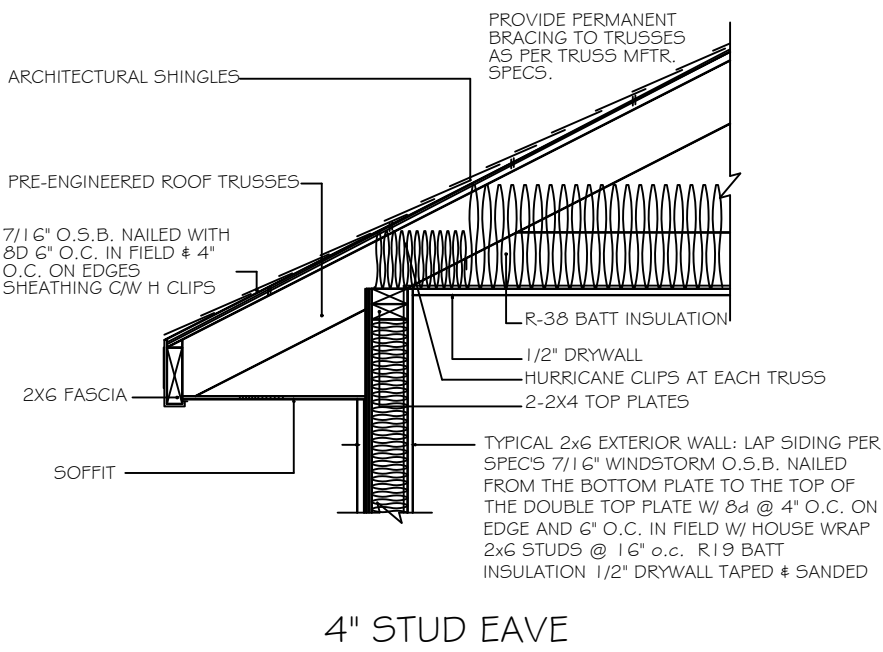
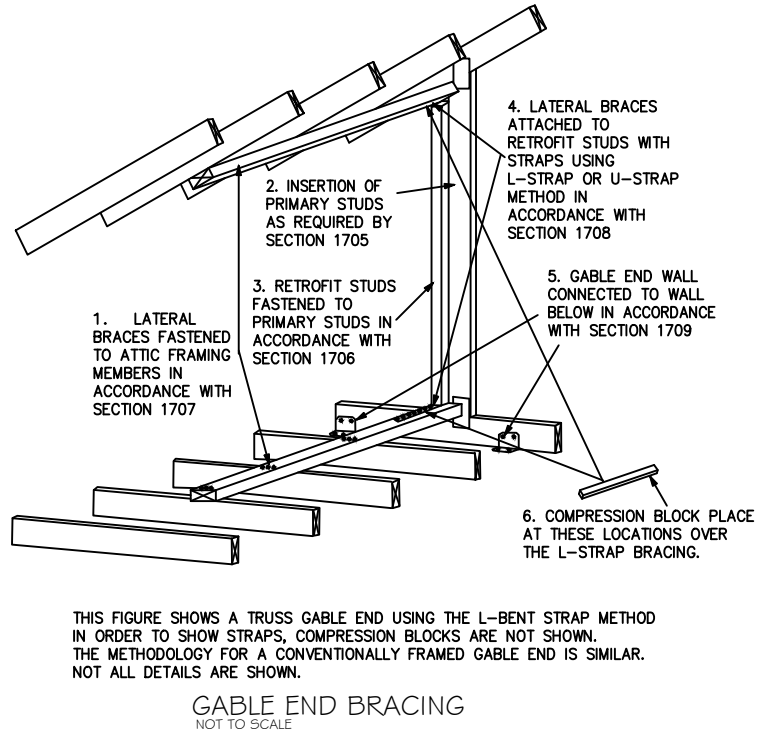
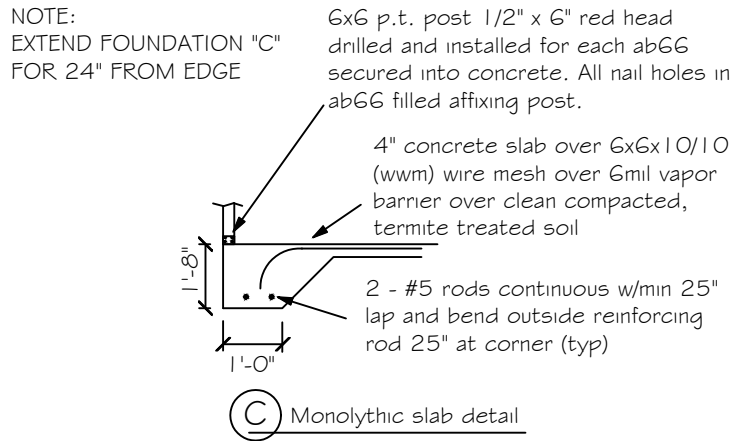
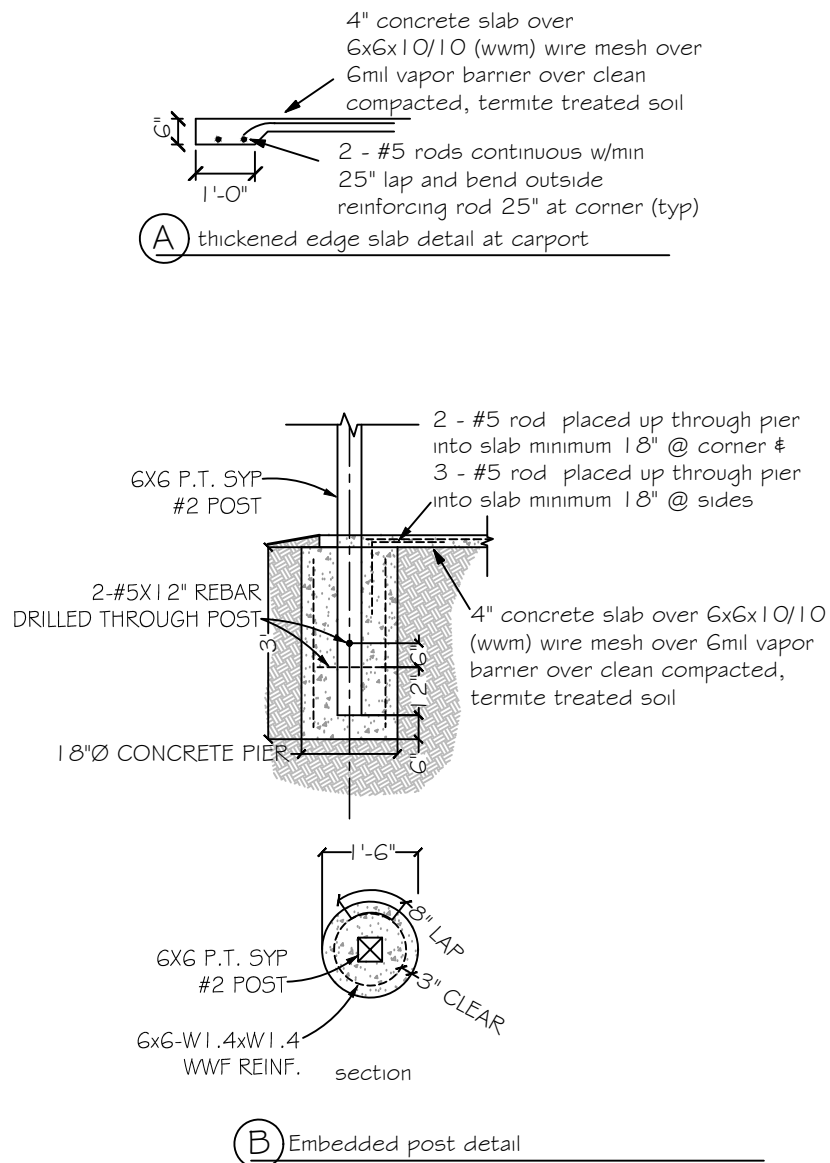
Double 1 3/4" x 11-7/8" LVL beam over opening over 12' and up to 14'

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 COMPRESSED 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 (44 SQUARE INCHES = 1 SQUARE FOOT)						
BUILDING CEILING (50 FT) x 144 = BUILDING (50 IN) BUILDING (50 IN) / 500 = 50 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 DAVE						
BASE OF CALCULATION:						
(a) OFF RIDGE VENTS - STAMPCO 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	PROVIDED				
	FRONT	LOW	VENTS	REAR	LINEAL FT	LOW (SQ IN)
FRONT (11) & REAR = 21.6 SQ FT, LOW (11) LINEAL FT = 9.19 SQ IN						
SOFFIT TABLE VENT SPECS						
Double 5" perforated soffits have a 6.20 sq. inches/sq. foot rating						
Triple 4" center vent soffit has a 1.956 sq. inches/sq. foot rating						
Triple 4" full vent soffit has a 5.067 sq. inches/sq. foot rating						
Triple 4" basketweave full vent has a 14.34 sq. inches/sq. foot rating						
Triple 4" center vent has a 4.78 sq. inches/sq. foot rating						
Double hidden vent soffit has 2.66 sq. inches/sq. foot rating						
Triple 3-1/8" hidden vent soffit has a 9.19 sq. inches/sq. foot rating						

NOTE

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

