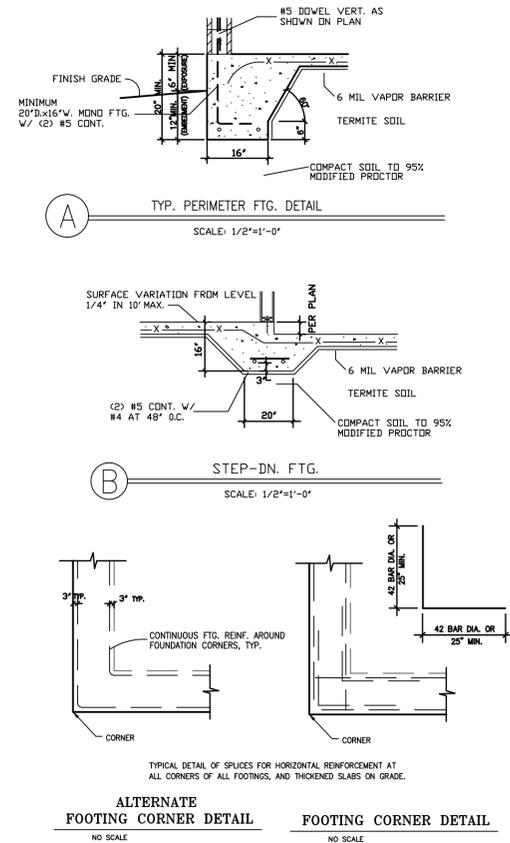


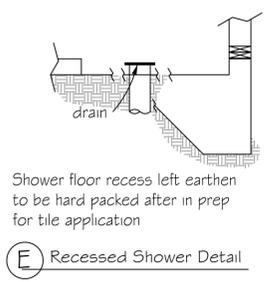
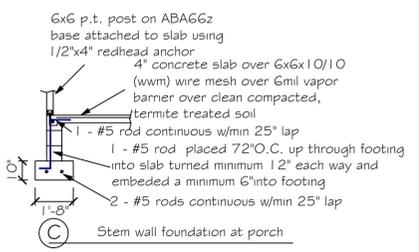
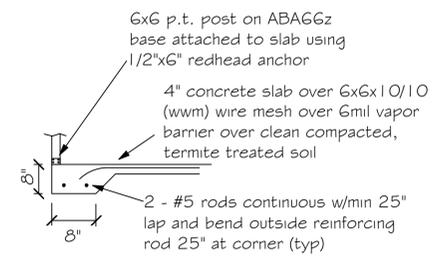
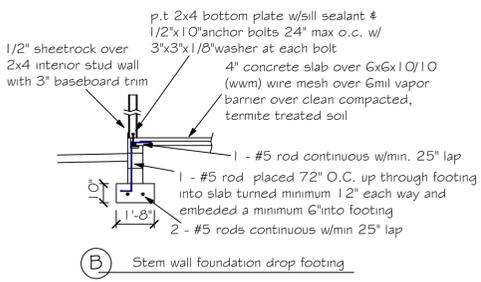
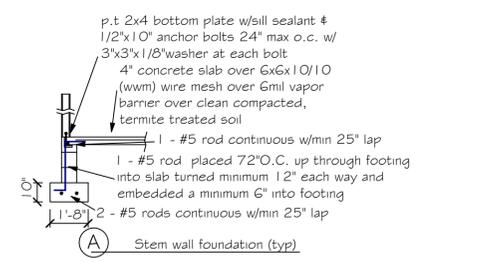
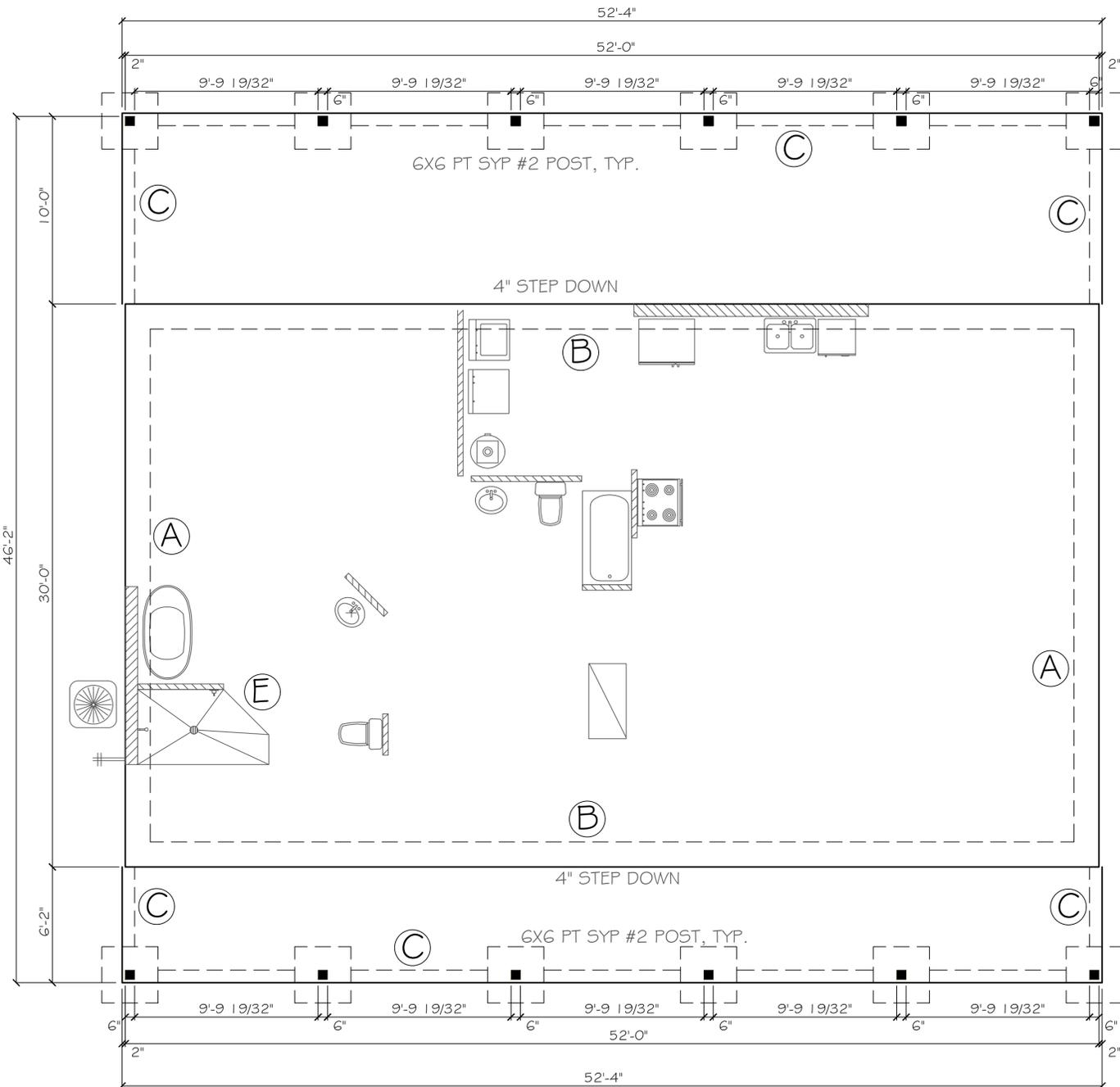
DESIGN SPECIFICATIONS

- 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-G, 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 CGp1 ±



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.



NOTE:

- STEMWALL FOUNDATION MAY BE USED IN LIEU OF MONOSLAB FOUNDATION



Digitally signed by Carol Chadwick
DN: cn=US, o=Florida, dnQualifier=A01410
D0000018046384E
750003ZEE
cn=Carol Chadwick
Date: 2024.12.23
153746-0500

DIXON RESIDENCE
 FOUNDATION PLAN
 TBD, LAKE CITY, FL
 PROJECT NO: R24550
 DATE: DEC. 3, 2024
 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 (SQ FT) x 1.44 = BUILDING (SQ IN)
 BUILDING (SQ IN) / 300 = SQ IN OF VENT REQUIRED
 SQ IN OF VENT REQUIRED / 2 = SQ IN AT HIGH AND 50% AT LOW

PER IRC SECTION R802.2, 40% 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 RIDGE VENTS - STAMPCO W/ 36 SQ IN (INVA) PER LINEAL FT
 (b) SOFFIT VENTS - GP T3-1/3" FULL VENT PERFORATED W/ 9.19 SQ IN (INVA) PER LINEAL FT

CALCULATED LINEAL FOOT OF SOFFIT VENT SHALL NOT INCLUDE NONVENTED FIRE RATED SOFFIT LOCATED LESS THAN 5' FROM PROPERTY LINE

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

SOFFIT TABLE VENT SPECS

Double 5" perforated soffits have a 6.20 sq. inches/ sq. foot rating
 Triple 4" center vent soffits has a 1.95 sq. inches/ sq. foot rating
 Triple 4" full vent soffits has a 5.627 sq. inches/ sq. foot rating
 Triple 4" basketweave full vent has a 1.434 sq. inches/ sq. foot rating
 Triple 4" center vent has a 4.77 sq. inches/ sq. foot rating
 Beaded hidden vent soffits has 2.66 sq. inches/ sq. foot rating
 Triple 3-1/2" hidden vent soffits has a 9.19 sq. inches/ sq. foot rating

NOTE
 7/16" O.S.B. NAILED WITH ØD 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.

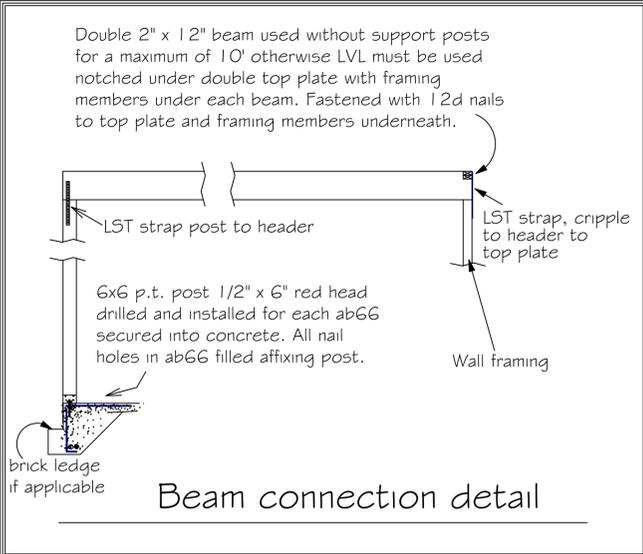
Simpson Strong-Tie Co. Titen HD Heavy-Duty Screw Anchors 5/8" x 8", maximum spacing of 24" o.c., may be used in lieu of 5/8" x 10" anchor bolts with 3"x3"x1/8" washer. Titen HD Heavy-Duty Screw Anchors shall be installed per manufacturer's specifications.

ROOF SHEATHING FASTENING

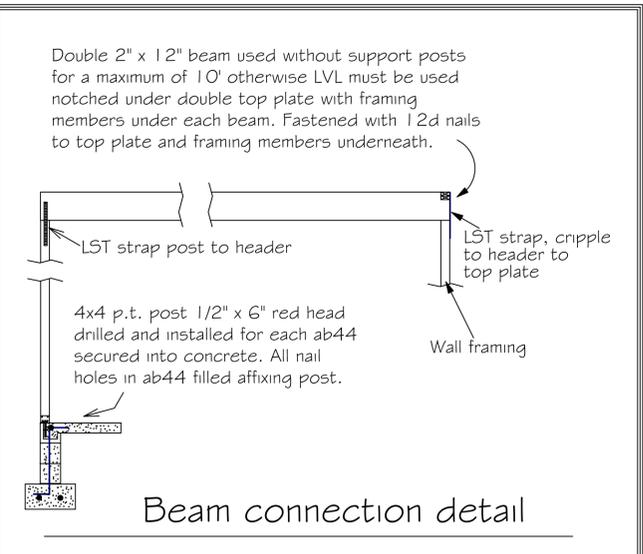
- 4" O.C. GABLE END
 - 6" O.C. EDGES (ALL ZONES)
 - 6" O.C. INTERMEDIATE FRAMING (ZONE 3)
 - 12" O.C. INTERMEDIATE FRAMING (ZONES 1 & 2)
- SEE FIGURE R803.2.3.1, SECTION R803.1, 2017 FLORIDA BUILDING CODE - RESIDENTIAL, SIXTH EDITION FOR ROOF SHEATHING NAILING ZONES

ROOF NOTES

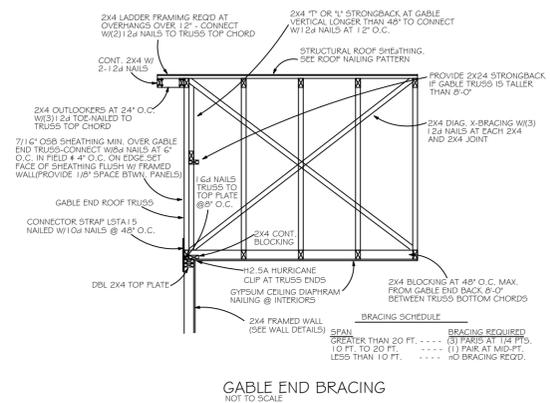
ROOF PITCH LESS THEN 4/12 DBL LAYER OF UNDERLAYMENT IS REQUIRED
 OVERLAP ROOFING UNDERLAYMENT 4" MIN OVER HIPS AND RIDGES
 BUTTON CAP NAILS ARE USED TO FASTEN UNDERLAYMENT TO ROOF DECK WHEN SHINGLES NOT INSTALLED SAME DAY
 DRIP EDGE INSTALLED OVER THE UNDERLAYMENT AT RAKES AND UNDER THE UNDERLAYMENT 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



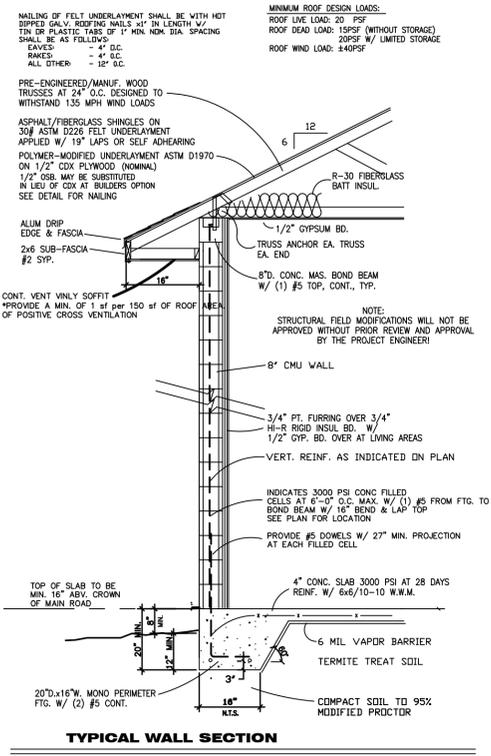
Double 1 3/4" x 11-1/4" LVL beam over opening up to 12'
 Double 1 3/4" x 11-7/8" LVL beam over opening over 12' and up to 14'
 Double 1 3/4" x 14" LVL beam over opening over 14' and up to 16' with 3 king studs each end and 2 trimmers each end of beam. Fastened with 12d nails to top plate and framing members. One PA28 at both sides of opening embedded min 4" into concrete. LST18 strap over trimmer to header each side.



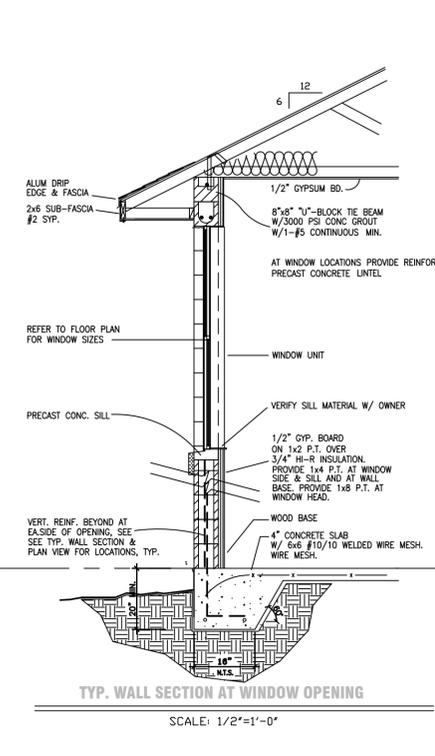
Double 1 3/4" x 11-1/4" LVL beam over opening up to 12'
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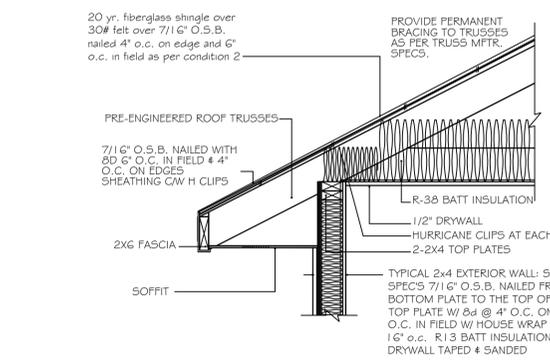
GABLE END BRACING
 NOT TO SCALE



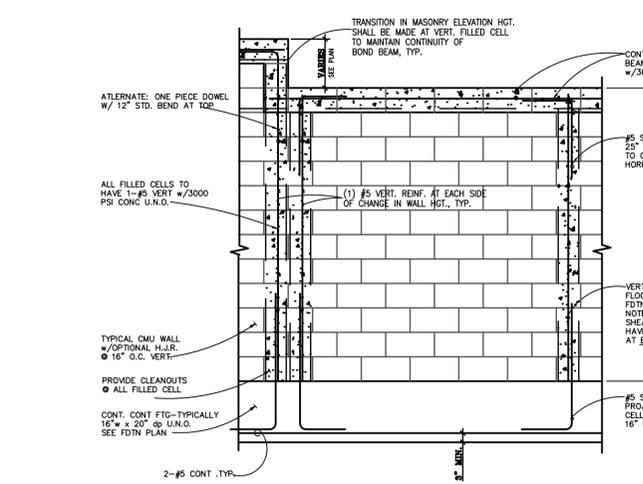
TYPICAL WALL SECTION
 SCALE: 3/4"=1'-0"



TYP. WALL SECTION AT WINDOW OPENING
 SCALE: 1/2"=1'-0"



4" STUD EAVE



TYP. MASONRY SHEARWALL DETAIL
 SCALE: 1/2"=1'-0"

Digitally signed by Carol Chadwick
 DN: cn=Carol Chadwick, o=Florida, dnQualifier=A014, 1000000180463, 84E750032FE, c=Carol Chadwick, Date: 2024.12.03 15:38:09 -0500

CAROL CHADWICK, P.E.
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF FLORIDA
 ENGINEERING NO. 124550
 EXPIRES 12/31/2024

DIXON RESIDENCE
 FRAMING DETAILS
 TBD, LAKE CITY, FL

DATE: 12/24/2024
 TIME: 15:38:09
 SHEET: 5-2