

DESIGN SPECIFICATIONS

- DESIGN CODES:
2020 FLORIDA BUILDING CODE (FBC) - RESIDENTIAL
ASCE 7-10, 2005
NDS, ACI, ATC, AWP, APA, ICC 600-06

- 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

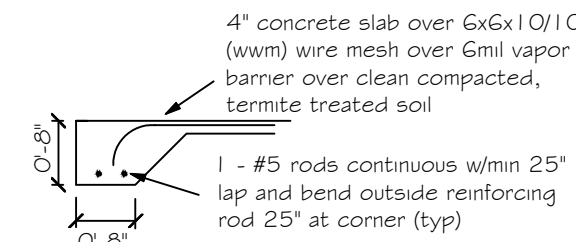
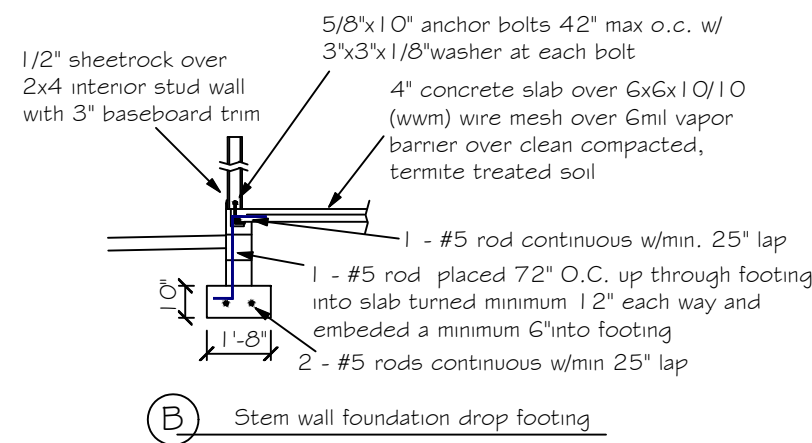
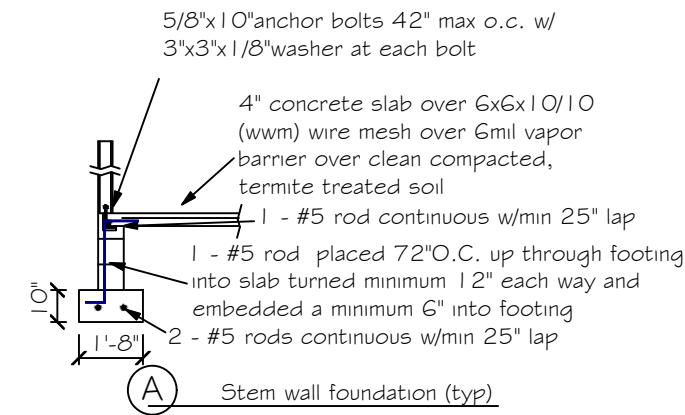
- FLOORS:
LL 40 PSF TOP CHORD
LL 0 PSF BOTTOM CHORD
DL 10 PSF TOP CHORD
DL 5 PSF BOTTOM CHORD

- MAXIMUM HEIGHT OF STRUCTURE: 23'-6"

- NUMBER OF STORIES: 1

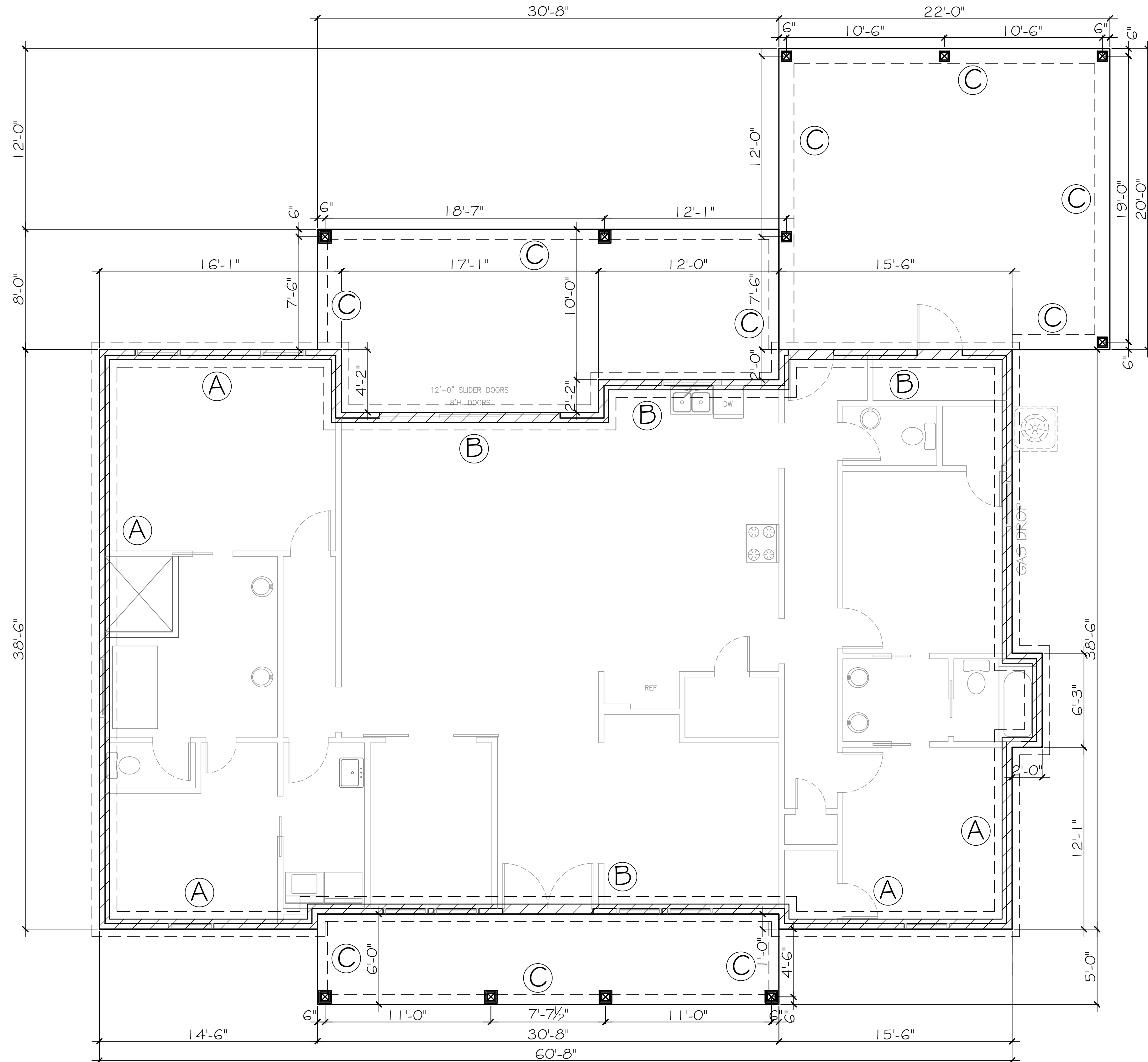
- TYPE OF CONSTRUCTION: TYPE V-G, UNPROTECTED, UNSPRINKLERED

- 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 C_gp_i ±



FOOTING AT POSTS:
2'-0" x 2'-0" x 1'-0" depth with 3 - #5 bars each
way at bottom w/ 6x6 p.l. post on ABA66z base
attached to slab using 1/2"x4" redhead anchor

C Monolithic slab detail at porch



FOUNDATION PLAN

SCALE: 1/4" = 1'

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 PER FBC-RES. SECTION R403.1.4



Carol Chadwick, PE
cnc=Carol Chadwick, PE, on This item has
been electronically signed and sealed by
Carol Chadwick, PE using a digital
signature, ou
email=ccpewyo@gmail.com, c=US
2021.04.17 17:37:33 -04'00'

PROJECT: ALBERTTON RESIDENCE	
FOUNDATION DETAILS	
DATE: 04/17/2021	SCALE: 1/4" = 1'
DESIGNED BY: CAROL CHADWICK, PE	CHECKED BY: CAROL CHADWICK, PE
DRAWN BY: JESSICA ZIEGLER	DATE: 04/17/2021
3546-752-26253	1/4" = 1'
jc@carolchadwick.net	1/4" = 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 = 50% AT HIGH AND 50% AT LOW PER FBC SECTION R803.2: 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/ 5G SQ IN (IN/VA) PER LINEAL FT (b) SOPRIT VENTS - 6" T3-1/3" FULL VENT PERFORMED W/ 9.19 SQ IN (IN/VA) PER LINEAL FT CALCULATED LINEAL FOOT OF SOPRIT VENT SHALL NOT INCLUDE NON-VENTED FIRE RATED SOPRIT LOCATED LESS THAN 5' FROM PROPERTY LINE						
AREA (SQ FT)	REQUIRED HIGH	REQUIRED LOW	VENTS (SQ IN)	PROVIDED HIGH (SQ IN)	LINEAL FT	LOW (SQ IN)
ROOF 111'0" WIDE = 214.5 SQ IN LOW 111'0" LINEAL FT = 31.3 SQ IN						
SOPRIT TABLE VENT SPECS						
Double 5' perforated soffits have a 6.20 sq. inch/sq. foot rating Triple 4' center vent soffit has a 1.956 sq. inch/sq. foot rating Triple 4' full vent soffit has a 5.667 sq. inch/sq. foot rating Triple 4' basketweave full vent has a 14.34 sq. inch/sq. foot rating Triple 4' center vent has a 4.79 sq. inch/sq. foot rating Beaded hidden vent soffit has 2.66 sq. inch/sq. foot rating Triple 3-1/3" hidden vent soffit has a 9.19 sq. inch/sq. 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 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 THAN 4/12 DBL LAYER OF UNDERLAYMENT IS REQUIRED

OVERLAP ROOFING UNDERLAYMENT 4"(MIN) OVER HIPPS AND RIDGES

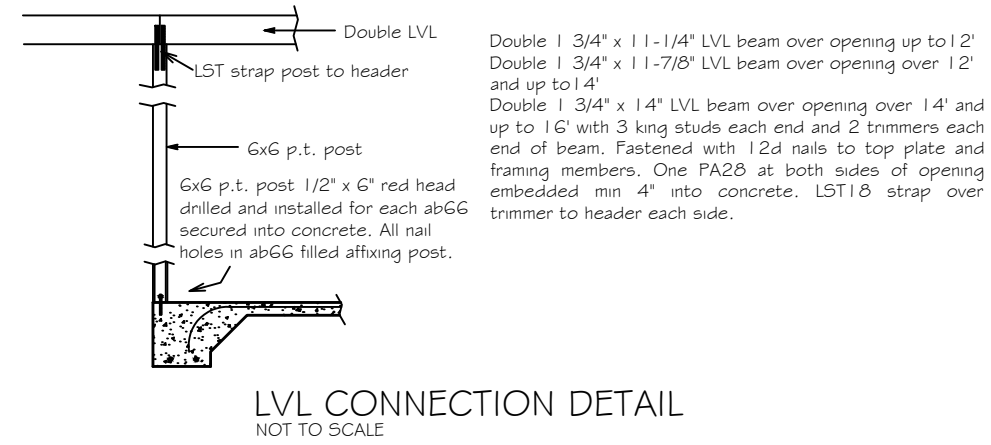
BUTTON CAP NAILS ARE USED TO FASTEN UNDERLAYMENT TO ROOF DECK WHEN SHINGLES NOT INSTALLED SAME DAY

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

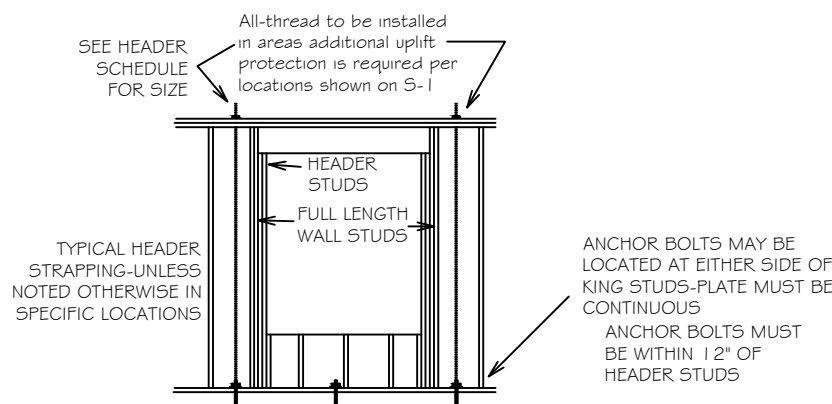
ALL ROOF PENETRATIONS ARE PROPERLY FLASHED W/ FLASHING OF THE CORRECT SIZE FOR THE PENETRATION

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

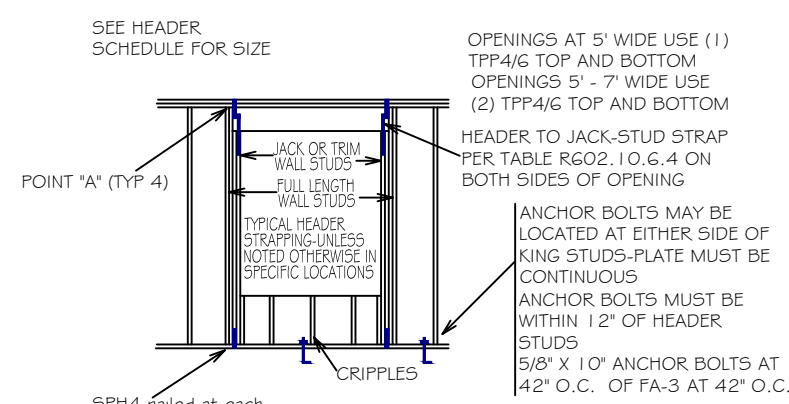
1" SPACE IS MAINTAINED BETWEEN THE END OF THE GUTTER AND THE WALL CLADDING



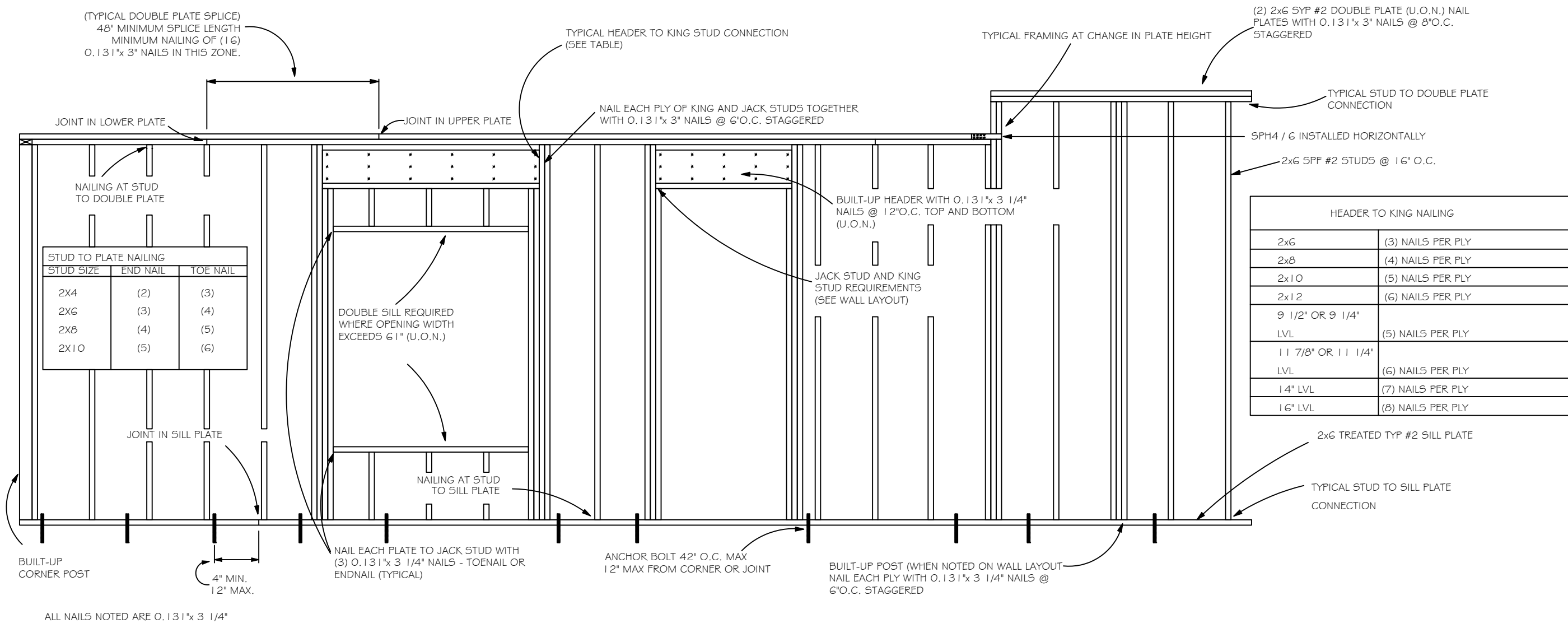
LVL CONNECTION DETAIL
NOT TO SCALE



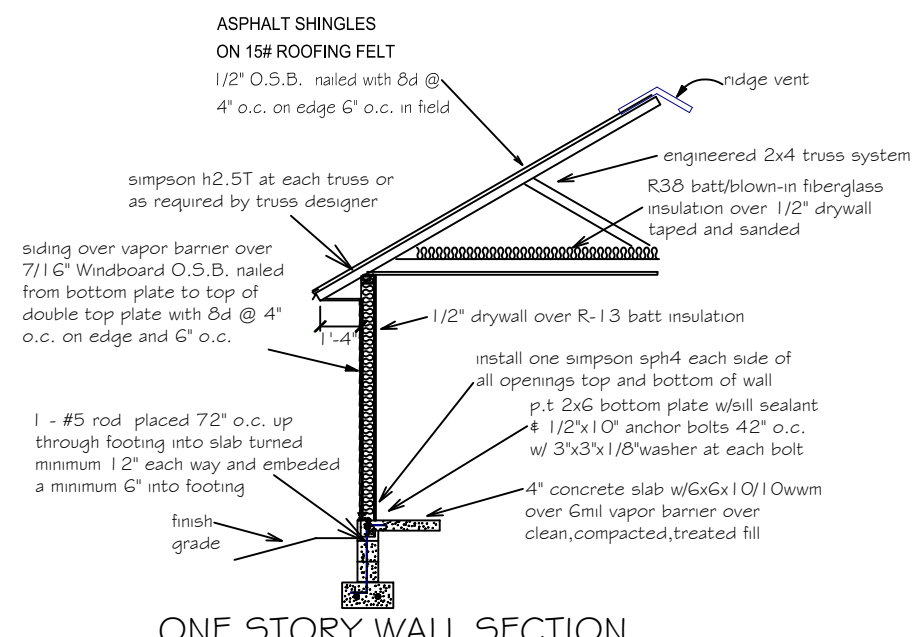
TYPICAL ALL THREAD DETAIL
NOT TO SCALE



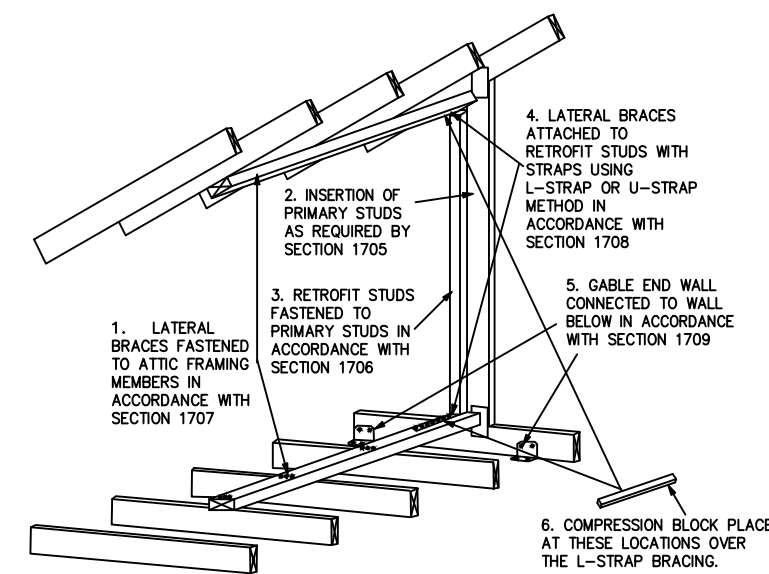
TYPICAL HEADER STRAPPING
NOT TO SCALE



TYPICAL WALL FRAMING
NOT TO SCALE

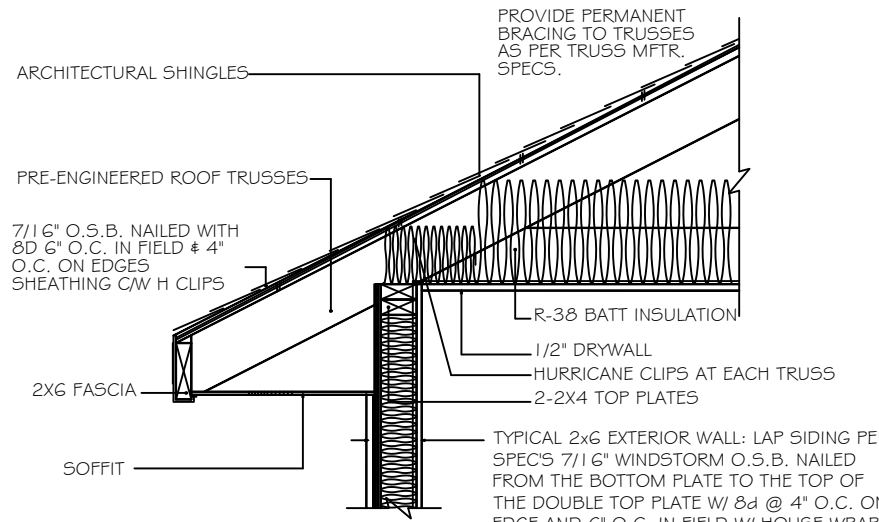


ONE STORY WALL SECTION



THIS FIGURE SHOWS A TRUSS GABLE END USING THE L-BENT STRAP METHOD IN ORDER TO SHOW STRAPS, COMPRESSION BLOCKS ARE NOT SHOWN. THE METHODOLOGY FOR A CONVENTIONALLY FRAMED GABLE END IS SIMILAR. NOT ALL DETAILS ARE SHOWN.

GABLE END BRACING
NOT TO SCALE



4" STUD EAVE

HEADER SCHEDULE			NOTE:	
2X STUD CONTINUOUS TO TOP PLATE			UPRIFT 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	
2 - 2X STUDS UNDER UNITS WITH OPENINGS LARGER THEN 5'-0"			MAXIMUM HEADER SPAN	
			2' 6' 9' 12' 15' 18'	
			NUMBER OF HEADER STUDS (JACKS) SUPPORTING END OF HEADER	
			1 1 2 2 2 2	
			NUMBER OF FULL LENGTH STUDS (KINGS) AT END OF HEADER	
			2	
OPENING WIDTH	BEARING OR SHEAR WALL	NON-BEARING WALLS		
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		



Carol Chadwick, PE
cn=Carol Chadwick, PE, o=This item has been electronically signed and sealed by Carol Chadwick, PE using a digital signature, ou,
email=copeyyo@gmail.com, cn=US
2021.04.17 17:36:58 -0400

ALBERTON RESIDENCE		FRAMING DETAILS	
DATE: 04/17/2021	FILED: 04/17/2021	PROJECT: ALBERTON RESIDENCE	SCALE: 1/8"=1'-0"
DRAWN BY: BRYAN ZECHER CONSTRUCTION	386.752.2625	DESIGNED BY: bzecher@comcast.net	DATE: 04/17/2021
PROJECT: ALBERTON RESIDENCE	386.752.2625	DESIGNED BY: bzecher@comcast.net	DATE: 04/17/2021