

DESIGN SPECIFICATIONS

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

- 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_{gpi} ±

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 R403.2.3.1, SECTION R403.1, 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 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

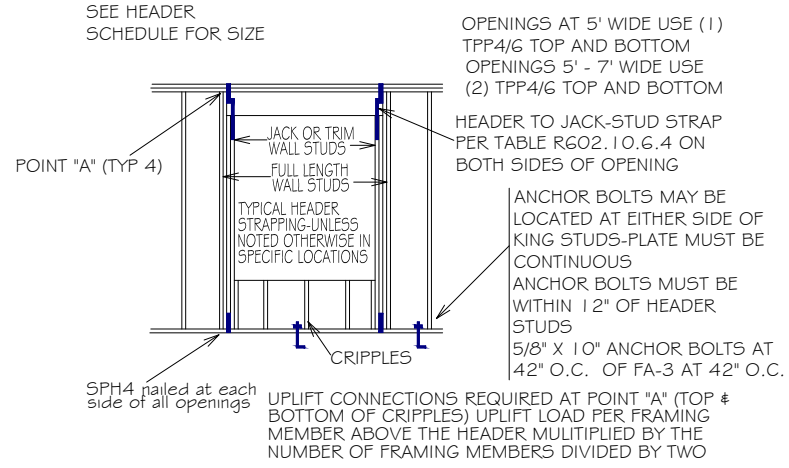
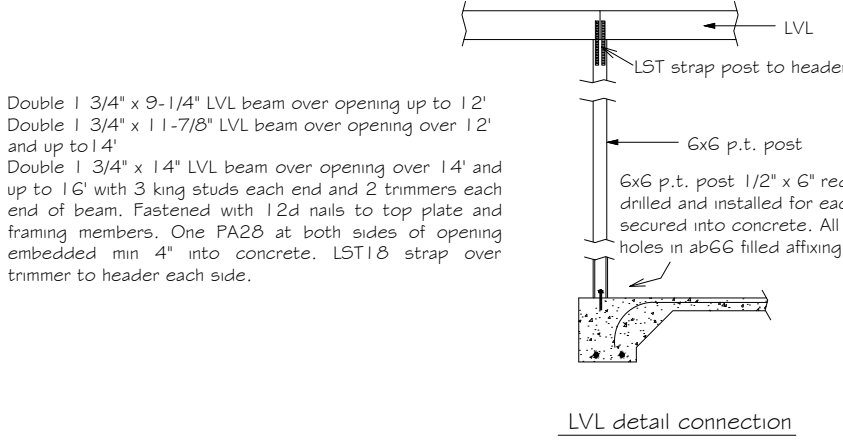
METAL ROOFING ATTACHED W/ CORRECT FASTENERS PER CODE AND MANUFACTURER'S SPECS

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

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 and up to 1.4					
PER IRC SECTION R403.2.40% 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 - STAIRPCD W/ 56 SQ IN (IN/VA) PER LINEAL FT (b) SOFFIT VENTS - 6" T3-1/3" PULL VENT PERFORATED W/ 9.19 SQ IN (IN/VA) PER LINEAL FT					
CALCULATED UNDER A FOOT OF SOFFIT VENT SHALL NOT INCLUDE NON-VENTED FIRE RATED SOFFIT LOCATED LESS THAN 5' FROM PROPERTY LINE					
AREA (SQ FT)	REQUIRED FLOOT	LOW	VENTS (SQ IN)	PROVIDED FLOOT (SQ IN)	LOW (SQ IN)
HIGH (11) W VENT = 214 SQ IN LOW (11) LINEAL FT = 9.19 SQ IN					
SOFFIT TABLE VENT SPECS					
Double 5" perforated soffits have a 6.20 sq. inches, foot rating					
Triple 4" center vent soffits have a 1.396 sq. inches, foot rating					
Triple 4" full vent soffits have a 5.067 sq. inches, foot rating					
Triple 4" basketweave full vent has a 14.34 sq. inches, foot rating					
Triple 4" center vent has a 4.78 sq. inches, foot rating					
Beaded hidden vent soffits have 2.64 sq. inches, foot rating					
Triple 5-1/2" hidden vent soffits have a 9.19 sq. inches, foot rating					

NOTE

7/16" 0.5.B. NAILED WITH 8D 6"
O.C. IN FIELD & 4" O.C. ON EDGES

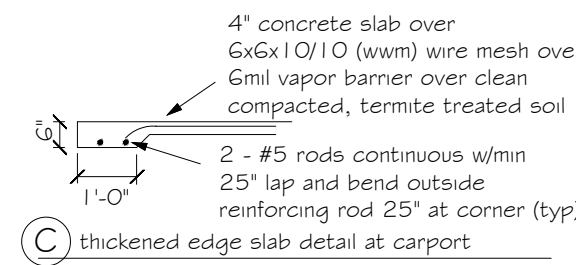
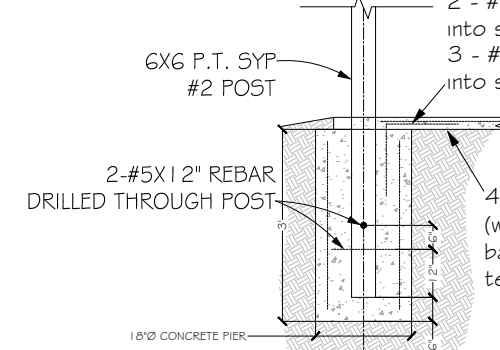
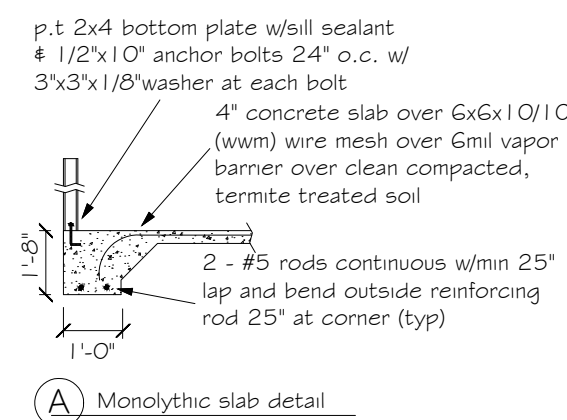


TYPICAL HEADER STRAPPING
NOT TO SCALE

HEADER SCHEDULE			NOTE:	
2x STUD CONTINUOUS TO TOP PLATE			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	
HEADER - CONTINUOUS				
2 - 2x STUDS UNDER UNITS WITH OPENINGS LARGER THEN 5'-0"				
OPENING WIDTH	BEARING OR SHEAR WALL	NON-BEARING WALLS	MAXIMUM HEADER SPAN	
0'-0" TO 3'-0"	2 - 2 x 6's	2 - 2 x 4's	3	6
3'-1" TO 5'-0"	2 - 2 x 10's	2 - 2 x 6's	9	12
5'-1" TO 7'-0"	2 - 2 x 10's	2 - 2 x 8's	15	18
7'-1" TO 10'-0"	2 - 2 x 10's	2 - 2 x 10's	2	
			NUMBER OF FULL LENGTH STUDS (KINGS) AT END OF HEADER	
			1	2

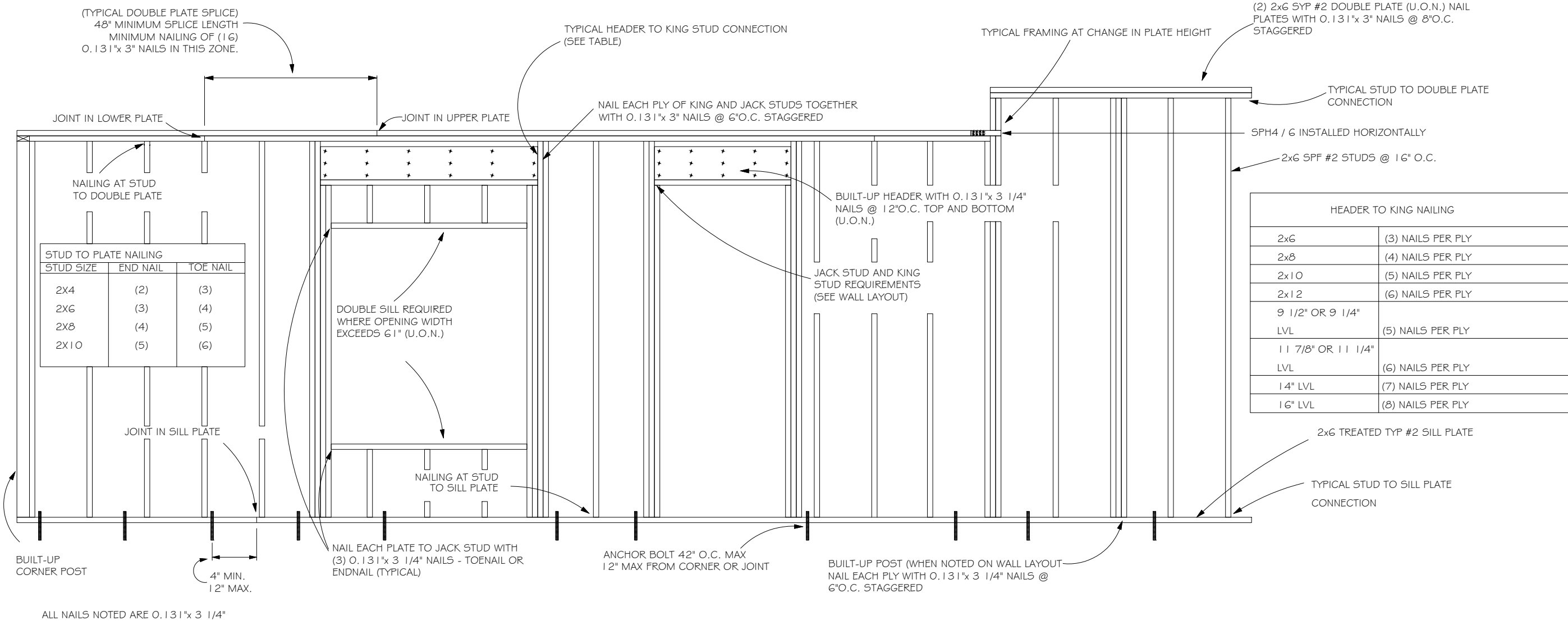
FOUNDATION PLAN

SCALE: 1/4" = 1'



FOUNDATION NOTES

- THE SLAB SHALL BE 4" CONCRETE SLAB REINFORCED W/ GxG-1.4/1.4 WELDED WIRE MESH PLACED ON CHAIRS 1 1/2" DEPTH OR FIBER MESH CONCRETE, G-MIL POLY VAPOR BARRIER W/ G' LAPS SEALED W/ POLY TAPE OVER TERMITES-TREATED & COMPACTED FILL
- BOTTOM OF EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 1'-0" BELOW UNDISTURBED SOIL OR ENGINEERED FILL PER FBC-RES, SECTION R403.1.4



TYPICAL WALL FRAMING
NOT TO SCALE



Digitally signed by Carol Chadwick
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Date: 2023.03.22 17:31:58 -0400

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LAKE CITY, FL 32055
386.754.7367

DATE: _____

PROJECT: F122493
DATE: 22, 2023
REVISIONS: _____

DATE: 2023.03.22 17:31:58 -0400

FRASE ADDITION
FOUNDATION DETAILS

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