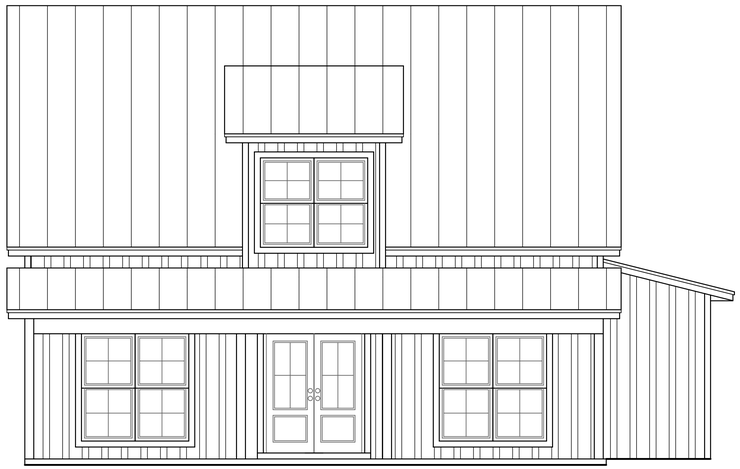


Stovall Residence

182 Drew Feagle Ave, Fort White, FL 32038
Columbia County
Parcel I.D. #30-5S-16-03738-024

DRAWING INDEX

BUILDING AREA SUMMARY

LIVING	1,400 SQ. FT.
REAR PORCH	151 SQ. FT.
FRONT PORCH	267 SQ. FT.
1ST. FLOOR TOTAL	1,818 SQ. FT.
2ND FLOOR LIVING	285 SQ. FT.
2ND FLOOR MECH. RM. (MECH. ROOM NOT INCLUDED IN SQ.FT)	39 SQ. FT.
2ND FLOOR TOTAL	324 SQ. FT.
TOTAL STRUCTURE (MECH. ROOM NOT INCLUDED IN SQ.FT)	2,142 SQ. FT.

-OFFICIAL USE-

FLOOD HAZARD DETERMINATION

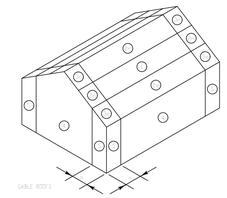
NFIP FIRM NUMBER: 12023C0390C
FLOOD ZONE DESIGNATION: ZONE X
EFFECTIVE DATE: 02/04/2009

COMPONENT AND CLADDING WIND PRESSURES

ASCE/SEI 7-16 FIGURE 30.4-1

RISK CATEGORY II, EXPOSURE C
GABLE ROOF ANGLE > 27 TO 45° (6:12 to 12:12)
MEAN ROOF HEIGHT = 0 - 15 FT

a = 10% of least horizontal dimension or 0.4h, whichever is smaller, but not less than either 4% of least horizontal dimension or 3 ft (0.9 m).



STRUCTURE

V_{ULT} = 120 MPH*
V_{ASD} = 93 MPH*

ZONE	EFFECTIVE AREA (SF)	WINDWARD PRESSURES	LEEWARD PRESSURES
1	10	28.7	-52.7
1	20	25.5	-44.7
1	50	21.3	-34.1
1	100	18.1	-26.1
2e	10	28.7	-52.7
2e	20	25.5	-44.7
2e	50	21.3	-34.1
2e	100	18.1	-26.1
2n	10	28.7	-58.0
2n	20	25.5	-51.8
2n	50	21.3	-43.7
2n	100	18.1	-37.5
2r	10	28.7	-52.7
2r	20	25.5	-44.7
2r	50	21.3	-34.1
2r	100	18.1	-26.1
3e	10	28.7	-71.1
3e	20	25.5	-63.0
3e	50	21.3	-52.3
3e	100	18.1	-44.2
3r	10	28.7	-58.0
3r	20	25.5	-51.8
3r	50	21.3	-43.7
3r	100	18.1	-37.5
4	10	31.4	-34.0
4	20	30.0	-32.6
4	50	28.1	-30.8
4	100	26.7	-29.4
5	10	31.4	-42.0
5	20	30.0	-39.2
5	50	28.1	-35.5
5	100	26.7	-32.6

OVERHANG

V_{ULT} = 120 MPH*
V_{ASD} = 93 MPH*

ZONE	EFFECTIVE AREA (SF)	LEEWARD PRESSURES
1	10	-69.2
1	20	-61.2
1	50	-50.6
1	100	-42.6
2e	10	-69.2
2e	20	-61.2
2e	50	-50.6
2e	100	-42.6
2n	10	-74.5
2n	20	-68.3
2n	50	-60.2
2n	100	-54.0
2r	10	-69.2
2r	20	-61.2
2r	50	-50.6
2r	100	-42.6
3e	10	-79.5
3e	20	-68.8
3e	50	-60.7
3e	100	-74.5
3r	10	-74.5
3r	20	-68.3
3r	50	-60.2
3r	100	-54.0

* THIS DESIGN WIND SPEED TERM IS DEFINED BY 2020 FLORIDA BUILDING CODE 7TH EDITION SECTION 1609.3 AND 1609.3.1. THE DESIGN PRESSURES HEREIN ARE DERIVED FROM THE ASCE/SEI 7-16 DEFINED BASIC WIND SPEED, V AND WIND SPEED MAPS FIGURE 26.5-1B FOR RISK CATEGORY II AND CHAPTER 30 PART 2 FOR COMPONENT AND CLADDING DESIGN PRESSURE VALUES. FOR ASD PRESSURES, MULTIPLY TABLE VALUES BY 0.6.

GENERAL NOTES

ANY REFERENCE TO CONTRACTOR SHALL ALSO INCLUDE ALL SUBCONTRACTORS AS THEY RELATE TO ANY AND ALL NOTES THROUGH OUT THESE PLANS

1. DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE SPECIFICATIONS AND OTHER PROJECT DRAWINGS BY OTHER DISCIPLINES. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CODES LISTED.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS RELATING TO EXISTING CONDITIONS BY MAKING FIELD SURVEYS AND MEASUREMENTS PRIOR TO COMMENCING FABRICATION OR CONSTRUCTION. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION.
3. CONTRACTOR SHALL REVIEW AND VERIFY ALL DRAWINGS, NOTES, DETAILS AND DIMENSIONS PRIOR TO START OF CONSTRUCTION, AND TO REPORT, IN WRITING, ANY DISCREPANCY TO THE ENGINEER, PRIOR TO CONSTRUCTION, FOR CORRECTION. ENGINEER IS NOT RESPONSIBLE FOR ERRORS OR OMISSIONS NOT BROUGHT TO HIS ATTENTION PRIOR TO START OF CONSTRUCTION. IF DETAILS, NOTES, AND/OR CALLOUTS ARE FOUND TO BE IN CONFLICT THE MORE RESTRICTIVE DIRECTIVE SHALL GOVERN.
4. THE CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION METHODS USED WILL NOT CAUSE DAMAGE TO ADJACENT BUILDINGS, UTILITIES, OR OTHER PROPERTY. THIS REQUIREMENT IS PARTICULARLY IMPORTANT DURING FOUNDATION INSTALLATION.
5. DELEGATE ENGINEER REQUIREMENTS: THE FLORIDA STATE BOARD OF PROFESSIONAL ENGINEERS HAS ISSUED STATEMENTS ON POSSIBILITIES OF PROFESSIONAL ENGINEERS, PURSUANT TO RULE 61G15-30 CERTAIN COMPONENTS OF THE STRUCTURE REQUIRE THE WORK OF DELEGATE ENGINEERS FOR THE DESIGN OF THOSE COMPONENTS. ALL RELEVANT PROCEDURES PRESENTED IN THE STATE BOARD STATEMENTS SHALL APPLY TO THIS PROJECT.
6. UNLESS NOTED OTHERWISE, EXTERIOR DIMENSIONS SHOWN DO NOT INCLUDE THICKNESS OF EXTERIOR WALL COVERINGS. ALL INTERIOR DIMENSIONS TO BLOCK WALLS EXTEND TO BLOCK FACE AND DO NOT ACCOUNT FOR FURRING STRIP, RIGID INSULATION, OR DRYWALL.
7. COPYRIGHT INDEMNIFICATION: CUSTOMER DOES HEREBY ACKNOWLEDGE THAT ANY PLANS, IDEAS, OR CONCEPTUALS GIVEN TO CALIBER DESIGN & ENGINEERING LLC HAVE BEEN PURCHASED BY SAID CUSTOMER AND THAT THEY HAVE RECEIVED CONSENT FROM THE ORIGINAL COPYRIGHT REGISTRANT TO BE USED IN PRODUCTION OR FABRICATION OF PLANS. CUSTOMER WILL INDEMNIFY AND HOLD CALIBER DESIGN & ENGINEERING LLC, ITS OFFICERS, OFFICIALS, EMPLOYEES, AND VOLUNTEERS HARMLESS FROM ANY AND ALL CLAIMS, INJURIES, DAMAGES, LOSSES OR SUITS INCLUDING ATTORNEY FEES, ARISING OUT OF OR RESULTING FROM THE ACTS, ERRORS OR OMISSIONS, OR RESULTING FROM LEGALITIES IN RELATION TO OWNERSHIP, DESIGN PROPERTIES, DESIGN ORIENTATION, OR ANY AND ALL COPYRIGHT DISPUTES.

CONSTRUCTION NOTES

1. ALL WORK SHALL CONFORM TO THE FBC 7TH EDITION 2020 RESIDENTIAL, ENGINEER NOTES, ANY APPLICABLE CODES AND LOCAL ORDINANCES
2. DIGGING OR GRADING: CONTRACTOR SHALL VERIFY LOCATION OF THE EXISTING UNDERGROUND AND ABOVE GROUND UTILITIES PRIOR TO COMMENCEMENT.
3. PROJECT MANAGER SHALL VERIFY ALL DIMENSIONS AND LAYOUT PRIOR TO CONSTRUCTION. SHOULD A DISCREPANCY BE ENCOUNTERED, ENGINEER SHALL BE NOTIFIED IMMEDIATELY BEFORE COMMENCING WITH ANY FURTHER WORK.
4. ALL CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ACI 318-14.
5. FOOTING DESIGN IS BASED ON MINIMUM SOIL BEARING CAPACITY OF 2,000 P.S.F.
6. STRUCTURAL STEEL SHALL CONFORM TO ASTM A36, FABRICATED AND ERECTED PER LATEST AISC SPECIFICATIONS.
7. DETAILING, PLACEMENT, AND FABRICATION OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ACI 315-18 GUIDE TO PRESENTING REINFORCING STEEL DESIGN DETAILS.
8. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60.
9. REINFORCING BAR SPLICES SHALL BE 40 BAR DIAMETERS, MINIMUM OF 25 INCHES AND HOOKS SHALL MEET ACI STANDARDS.
10. PROVIDE (1) #5 ROUND 90 DEGREE BENT BAR AT CORNERS INTERSECTING OF BOND BEAMS AND FOOTINGS. PROVIDE (1) #5 ROUND 90 DEGREE BENT BAR REINFORCING BETWEEN VERTICAL GROUT CELLS, FOOTINGS AND BOND BEAMS.
11. CONCRETE TRADE CONTRACTOR WILL INSTALL (1) # 5 BAR, TIED TO FOOTING REINFORCEMENT AND EXTENDED UP AND BEYOND FOOTING FOR ELECTRICAL GROUNDING ROD.
12. CONTRACTOR TO VERIFY ALL BLOCK AND FRAME WALL BEARING HEIGHTS WITH TRUSS COMPANY BEFORE CONSTRUCTION.
13. PRE-ENGINEERED WOOD ROOF TRUSSES AND/OR FLOOR TRUSSES SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED AND LICENSED IN THE STATE OF FLORIDA. SIGNED AND SEALED SHOP DRAWINGS SHALL BE SUPPLIED TO THE CONTRACTOR FOR REVIEW PRIOR TO COMMENCEMENT OF WORK.
14. ALL STRUCTURAL LUMBER SHALL BE SOUTHERN PINE #2 OR BETTER UNLESS OTHERWISE NOTED.
15. UNLESS OTHERWISE NOTED ALL ANGLED WALLS ARE TO BE PLACED AT A 45 DEGREE ANGLE.
16. ALL INTERIOR DIMENSIONS ARE TO THE BLOCK WALL AND NOT THE FURRING STRIP.
17. PROVIDE A MINIMUM OF 1/2" ROUND SLEEVE ANCHORS WITH OR 1/2" TITEN H.D. WITH WASHERS TO ATTACH PRESSURE TREATED WOOD BLOCKING TO THE MASONRY WORK AT 24 INCHES ON CENTER, UNLESS OTHERWISE NOTED.
18. ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED.
19. INTERIOR PARTITION WALLS: PROVIDE 1/2" INCH GYPSUM BOARD, TAPED, FLOATED, SANDED, WITH TWO COATS OF PAINT OVER 2 X 4 WOOD STUDS AT 16" INCHES ON CENTER UNLESS NOTED OTHERWISE.
20. HVAC TRADE CONTRACTOR SHALL VERIFY ALL DUCT & VENT LOCATIONS WITH ON-SITE SUPERVISOR, AS WELL AS TO ENSURE PROPER POWER REQUIREMENTS WITH ELECTRICAL TRADE.
21. PLUMBING TRADE CONTRACTOR MUST INSTALL BACK-FLOW PREVENTORS ON ALL HOSE BIBS, AND IRRIGATION SYSTEMS.
22. GLAZING IN HAZARDOUS LOCATIONS SHALL BE SAFETY GLAZED PER FBC 7TH EDITION RESIDENTIAL R308 REFER TO WINDOW MANUFACTURER FOR ATTACHMENT REQUIREMENTS.
23. ALL BEDROOMS WILL HAVE APPROVED EMERGENCY EGRESS OPENINGS.
24. ELECTRICAL TRADE CONTRACTOR WILL COORDINATE WITH CONTRACTOR ON-SITE SUPERVISOR WHEN PLACING ALL POWER & LIGHTING FIXTURES TO ENSURE PROPER LOCATION AND FUNCTIONALITY. ALL ELECTRICAL WIRING TO BE COPPER.
25. ALL DRYERS AND EXHAUST FANS TO BE VENTED TO EXTERIOR OF HOME.
26. LIGHT FIXTURES IN BATHROOMS SHALL COMPLY WITH ART. 410-10 PER NFPA 70-17.
27. ALL ELECTRICAL RECEPTACLES WITHIN BEDROOMS WILL BE ARC FAULT CIRCUIT INTERRUPTED.
28. NOTICE MUST BE PROVIDED TO PROJECT MANAGER PRIOR TO ANY CHANGES FOR ALL FIELD CORRECTIONS.
29. SEE TRUSS LAYOUT FOR ANY SUPPLEMENTAL TRUSS BRACING.
30. ANY REFERENCE SHOWN FOR A SCREEN ENCLOSURE OR POOL SHALL BE PERMITTED INDEPENDENTLY BY A LICENSED ALUMINUM CONTRACTOR OR POOL CONTRACTOR, POSSIBLY TO BE CONSTRUCTED AT A FUTURE DATE
31. ROOF SHINGLES SHALL EXTEND PAST THE EAVES DRIP 1/2" MINIMUM 3/4" MAXIMUM
32. RESISTANCE CONNECTORS MAY BE INTERCHANGED WITH ANOTHER CONNECTOR THAT PROVIDES EQUAL OR GREATER RESISTANCE.
33. EXTERIOR WALL COVERINGS CEMENTITIOUS FINISH WEEP SCREED SHALL NOT BE INSTALLED CLOSER THAN 4" TO GRADE IN COMPLIANCE W/ FBC 7TH EDITION RESIDENTIAL PER SECTION 703.7 AND APPLICATION REQUIREMENTS SHALL COMPLY WITH ASTM C926, C932, C1063, C1787
34. OPENINGS AND PENETRATIONS THROUGH THE WALLS OR CEILINGS SEPARATING THE DWELLING FROM THE GARAGE SHALL BE IN ACCORDANCE WITH SECTIONS R302.5.1 THRU R302.5.3
35. THE GARAGE SHALL BE SEPARATED AS REQUIRED BY TABLE R302.6. W/ NOT LESS THAN 1/2" GYPSUM BOARD OR EQUIVALENT APPLIED TO GARAGE SIDE OF WALL. THIS PROVISION DOES NOT APPLY TO GARAGE WALLS THAT ARE PERPENDICULAR TO THE ADJACENT DWELLING UNIT WALL.
36. ENCLOSED SPACE UNDER STAIRS THAT IS ACCESSED BY A DOOR OR ACCESS PANEL SHALL HAVE WALLS, UNDER-STAIR SURFACE AND ANY SOFFITS PROTECTED ON THE ENCLOSED SIDE WITH 1/2" GYPSUM BOARD.
37. CONTRACTOR / OWNER SHALL PROVIDE ON-SITE THE FLORIDA PRODUCT APPROVAL INFORMATION INCLUDING MANUFACTURER'S APPROVED INSTALLATION SPECIFICATIONS AND/OR GUIDELINES FOR ALL COMPONENTS AND CLADDING ASSEMBLIES ASSOCIATED WITH THE EXTERIOR ENVELOPE.
38. ALL APPLIANCES SHALL BE INSTALLED AND PROTECTED PER M1307.3.1 AND P2801.6 PER THE FBC 7TH EDITION (2020) RESIDENTIAL.
39. FOAM PLASTIC SHALL BE SEPARATED FROM THE INTERIOR OF A BUILDING BY AN APPROVED THERMAL BARRIER OF NOT LESS THAN 1/2" GYPSUM WALLBOARD, 23/32" WOOD STRUCTURAL PANEL OR A MATERIAL THAT IS TESTED IN ACCORDANCE WITH AND MEETS THE ACCEPTANCE CRITERIA OF BOTH THE TEMPERATURE TRANSMISSION FIRE TEST AND THE INTEGRITY FIRE TEST OF NFPA 275. PER FBCR 316.4, IF FOAM PLASTIC (ICYNENE) IS TO BE INSTALLED.
40. EXTERIOR PLASTER AND WIRE LATH TO BE INSTALLED PER SECTION R703.7 AND ASTM C1063 OR C1787 STANDARD SPECIFICATIONS FOR INSTALLATION OF METAL LATH.
41. FIREBLOCKING SHALL BE INSTALLED PER FBC RESIDENTIAL SEVENTH EDITION 2020 PER SECTION R302.11 WHEN REQUIRED.

BUILDING PARAMETERS

OCCUPANCY: SINGLE-FAMILY RESIDENTIAL-R3
TYPE OF CONSTRUCTION: V-B (FRAME)
FIRE SPRINKLER: NO
SEISMIC & WIND RISK CATEGORY: II

HEIGHT / AREA LIMITATIONS

PARAMETER	ACTUAL	LIMIT
HEIGHT	25	55 FT
AREA	2,142	UL
STORIES	01	3

CODES AND REFERENCES

GENERAL:	FLORIDA BUILDING CODE BUILDING, 7TH EDITION (2020) FLORIDA BUILDING CODE RESIDENTIAL, 7TH EDITION (2020)
ASCE 7-16	MIN. DESIGN LOADS WITH SUPPLEMENT NO.1
ICC 600-14	STD. FOR RES. CONSTRUCTION IN HIGH-WIND AREAS
NFPA 70-17	NATIONAL ELECTRIC CODE
ACI 318-14	BLD. CODE REQUIREMENTS FOR STRUCTURAL CONC.
ANSI/AISC	360-16 SPECIFICATIONS FOR STEEL BUILDINGS
ANSI/AWC	WFMC-2018 WOOD FRAME CONSTRUCTION MANUAL
ANSI/AWC	NDS-2018 WOOD CONSTRUCTION W/ 2018 SUPMT
ANSI/AWC	SDPWS-2015 SPECIAL DSN. PROVISIONS FOR WIND
AISI S230	2019 STD FOR COLD FORMED STEEL FRAMING-RES.

ENGINEER NOTES

1. TRUSS SHALL BE DESIGNED BY DELEGATED ENGINEER AND PREFABRICATED WOOD TRUSSES SHALL BE DESIGNED USING THE MORE RESTRICTIVE OF MINIMUM DESIGN LOADS AS SPECIFIED BY ASCE/SEI 7-16 AND CONDITIONS CONTAINED HEREIN. TRUSSES SHALL BEAR ONLY ON LOAD BEARING WALLS SHOWING IN THE PLANS. THE ENGINEER OR RECORD HAS SELECTED TRUSS FASTENERS AND OTHER CONNECTORS BASED UPON THE TRUSS COMPANY'S CALCULATED UPLIFTS AND REACTIONS. DELEGATED ENGINEER SHALL SUBMIT FINAL ENGINEERING SUBMITTAL TO E.O.R. FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. DOCUMENTS RECEIVED BY THE TRUSS COMPANY AND INCLUDED IN THESE PLANS ARE BELIEVED TO BE CORRECT TO THE BEST OF THE E.O.R.'S KNOWLEDGE, HOWEVER, THE ACCURACY OF THE INFORMATION CANNOT BE GUARANTEED.
2. ENGINEER'S REVIEW AND APPROVAL OF TRUSS INFORMATION AND LINTEL INFORMATION IS BASED UPON THE INFORMATION CONTAINED HEREIN. SHOULD THE TRUSS DESIGN, TRUSS MANUFACTURER, OR LINTEL MANUFACTURER CHANGE, FURTHER REVIEW BY THE E.O.R. IS REQUIRED.
3. ENGINEER'S SEAL APPLIES TO STRUCTURAL COMPONENTS AND STRUCTURAL SYSTEMS ONLY. NO OTHER ASPECT OF THESE PLANS SHALL BE CONSIDERED SIGNED, SEALED, OR REVIEWED BY ENGINEER-OF-RECORD (E.O.R.).
4. ASSUMED SOIL BEARING CAPACITY = 2,000 PSF
5. LIVE LOADS (FBCR TABLE R301.5):

UNINHABITABLE ATTICS WITH LIMITED STORAGE	=	20	PSF
UNINHABITABLE ATTICS WITHOUT STORAGE	=	10	PSF
SLEEPING ROOMS & HABITABLE ATTICS (W/ STAIRS)	=	30	PSF
STAIRS, BALCONIES, DECKS & ALL OTHER ROOMS	=	40	PSF
VEHICLE GARAGES & GUARD IN-FILL COMPONENTS	=	50	PSF
GUARDRAILS & HANDRAILS (SINGLE CONCENTRATE LOAD)	=	200	LBS

6. MINIMUM DEAD LOADS:

DESCRIPTION	SHINGLE ROOF (PSF)	METAL ROOF (PSF)	TILE ROOF (PSF)	HEAVY/CLAY ROOF (PSF)
ROOF TOP CHORD DL*	7	10	20	25
ROOF BOTTOM CHORD DL	10	10	10	10

FLOOR LOADING	CARPET,WOOD,TILE	LIGHT WT. CONC.
FLOOR TOP CHORD DL	10	10 LBS/IN
FLOOR BOT. CHORD DL	5	

* CONTRACTOR TO VERIFY ROOF MATERIAL DOES NOT WEIGH MORE THAN THE ROOF TOP CHORD DEAD LOAD LISTED ABOVE MINUS 5 LBS

ALL OTHER DEAD LOADS = ACTUAL WT. OF MATERIALS

7. ROOF LIVE LOADS (FBCR TABLE R301.6)

ROOF PITCH	LOAD
FLAT TO < 4:12	20 PSF
4:12 TO < 12:12	16 PSF
12:12 AND GREATER	12 PSF

8. RISK CATEGORY II (ASCE 7-16 TABLE 1.5-1)
9. SEISMIC DESIGN:
   9.1. SITE CLASS = D
   9.2. SEISMIC DESIGN CATEGORY: S_{DS} = A (FIGURE R301.2(2) & TABLE R301.2.2.1.1).
   9.3. STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY A NEED ONLY COMPLY WITH THE REQUIREMENTS OF ASCE 7-16 SECTION 1.4 GENERAL STRUCTURAL INTEGRITY. NONSTRUCTURAL COMPONENTS IN SEISMIC DESIGN CATEGORY A ARE EXEMPT FROM SEISMIC DESIGN REQUIREMENTS.
10. STRUCTURE HAS BEEN DESIGNED USING THE FOLLOWING DESIGN WIND LOAD PARAMETERS (ASCE 7-16)
    10.1. BASIC WIND SPEED (ULTIMATE DESIGN WIND SPEED), V_{ULT} = 120-MPH
    10.2. NOMINAL DESIGN SPEED, V_{ASD} = 93-MPH
    10.3. BUILDING CATEGORY (ASCE/SEI 7-16 SECTION 26.2) = "ENCLOSED" (GCpi = ± 0.18)
    10.4. EXPOSURE CATEGORY (ASCE/SEI 7-16 SECTION 26.7.2) = "C"
    10.5. WIND SPEED-UP EFFECT, K_{zt} (ASCE/SEI 7-16 FIGURE & EQN 26.8-1) = 1.00
11. ALL OPENINGS IN EXTERIOR WALLS SHALL COMPLY WITH COMPONENTS AND CLADDING DESIGN PRESSURES LISTED IN THESE PLANS. BUILDING ENVELOPE PRODUCTS THAT HAVE BEEN TESTED TO AIR PRESSURE STANDARDS THAT INCORPORATE A SAFETY FACTOR ARE TYPICALLY RATED FOR AN ALLOWABLE STRESS DESIGN WIND PRESSURE (0.6W) RATHER THAN A STRENGTH DESIGN PRESSURE (1.0W) OR WIND SPEED. IN ORDER TO PROPERLY SELECT PRODUCTS TESTED AND RATED IN THIS MANNER, THE C&C PRESSURES LISTED IN THE PLANS SHOULD BE ADJUSTED FOR THE ALLOWABLE STRESS DESIGN LOAD FACTOR BY MULTIPLYING THE LISTED PRESSURE BY THE FACTOR 0.6.
12. ALUMINUM STRUCTURE DESIGN TO BE IN ACCORDANCE WITH FBCR SECTION R301.2.1.1.1.1 OR R301.2.1.1.2.
13. SUNROOM DESIGN TO BE IN ACCORDANCE WITH FBCR SECTION R301.2.1.1.1.

NBR	DESCRIPTION	DATE
1	ISSUE DATE	04/19/2021

CLIENT:
Tanner Construction Group
16407 NW 174th Dr. Suite E
Alachua, FL 32615
Phone: 386-418-0001
Web Site:
www.Tannerconstructiongroup.com

P.I.D.: 30-5S-16-03738-024
CDE PROJ. NO.: 172.21.018
DESIGNED B.K. CHECKED J.M.G

STOVALL RESIDENCE
182 DREW FEAGLE AVE, FORT WHITE, FL 32038

K & K DRAFTING AND DESIGN
15872 SE 92ND TERRACE, SUMMERFIELD FL 34491
PHONE: 352-817-6761 EMAIL: JBKRAUSE@KANDKDRAFTING.COM

COVER

PROJECT ENGINEER

CALIBER DESIGN & ENGINEERING LLC
303 S.W. 8TH STREET
UNIT 2
OCALA, FL. 34471
(352) 789-6298
REGISTRATION NO. 33188

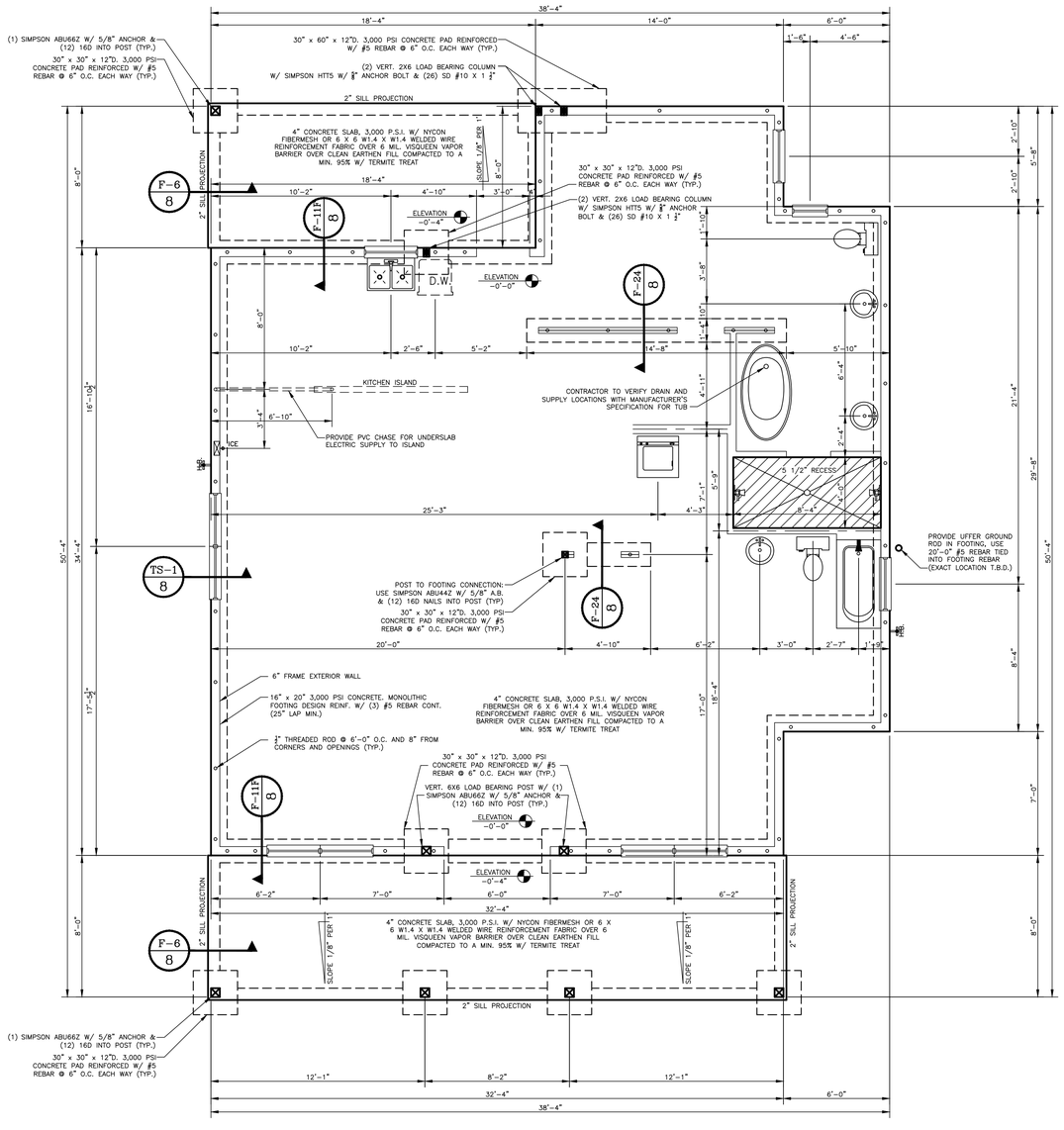
JOHN M. GARTNER JR. LICENSE No. 70731 STATE OF FLORIDA PROFESSIONAL ENGINEER

JOHN M. GARTNER JR., PE
FLORIDA LICENSE NO. 70731

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY JOHN M. GARTNER JR., P.E. ON THE DATE ADJACENT TO THE SEAL.

UNLESS PHYSICALLY SIGNED AND SEALED, PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

SHEET NO.
C1 of 10



Foundation Plan

SCALE: 1/4" = 1'-0"

FOUNDATION LEGEND

HB	HOSE BIB
	SHOWER HEAD
	8 x 8 x 16 CONCRETE BLOCK REINF. W/ (1) #5 VERTICAL REBAR, SOLID FILL
	8 x 8 x 12 CONCRETE BLOCK REINF. W/ (1) #5 VERTICAL REBAR, SOLID FILL
	8 x 8 x 8 CONCRETE BLOCK REINF. W/ (1) #5 VERTICAL REBAR, SOLID FILL
	COMPOUND MITRE CONCRETE BLOCK REINF. W/ (1) #5 VERTICAL REBAR, SOLID FILL
	16" ROUND CIRCULAR BLOCK REINF. W/ (2) #5 VERTICAL REBAR, SOLID FILL
	16 x 8 x 16 PILASTER BLOCK REINF. W/ (4) #5 VERTICAL REBAR, SOLID FILL

FOUNDATION NOTES

1. ALL CONCRETE FILLED CELLS REGARDLESS OF LOCATION SHALL CONTAIN (1) VERTICAL #5 REBAR (MIN.) THAT ANCHORS THE SLAB TO THE BOND BEAM AND SHALL CONFORM TO ACI-315, MANUAL OF STANDARD PRACTICES FOR DETAILING REINFORCED CONCRETE STRUCTURES
2. FOOTING DESIGN IS BASED ON MINIMUM SOIL BEARING CAPACITY OF 2000 P.S.F.
3. THE SOILS UNDER THE FLOOR SLABS AND BUILDING FOUNDATIONS SHALL BE COMPACTED TO MINIMUM 95% OF MAXIMUM DRY DENSITY (ASTM D1557) SOIL MUST BE TESTED BY A LICENSED ENGINEERING TESTING COMPANY.
4. FIBER MESH REINFORCING OR 6 X 6 W1.4 X W1.4 WELDED WIRE SHALL BE USED THROUGHOUT SLAB. PROVIDE 6 MIL. POLYETHYLENE VAPOR BARRIER UNDER ALL SLABS ON CLEAN FILL TO GRADE, COMPACTED TO MINIMUM 95%, ALL CONCRETE SHALL HAVE A MINIMUM OF F'c=3,000 P.S.I. AT 28 DAYS.
5. ALL EXCAVATION, GRADING, AND FILL SHOULD COMPLY WITH FBC 7TH EDITION 2020 BUILDING, PER SECTION 1804
6. CONTRACTOR/OWNER TO VERIFY ALL RECESS DIMENSIONS AND DEPTHS IN SLAB FOR SHOWERS AND DOOR THRESHOLDS BEFORE CONSTRUCTION WITH MANUFACTURER'S SPECIFICATIONS.
7. FINISH FLOOR SHALL BE CONSTRUCTED MINIMUM OF 12" ABOVE BASE FLOOD ELEVATION.

NBR	DESCRIPTION	DATE
1	ISSUE DATE	T.B.D.

CLIENT:
Tanner Construction Group
16407 NW 174th Dr. Suite E
Alachua, FL 32615
Phone: 386-418-0001
Web Site:
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P.I.D.: 30-5S-16-03738-024
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FOUNDATION PLAN

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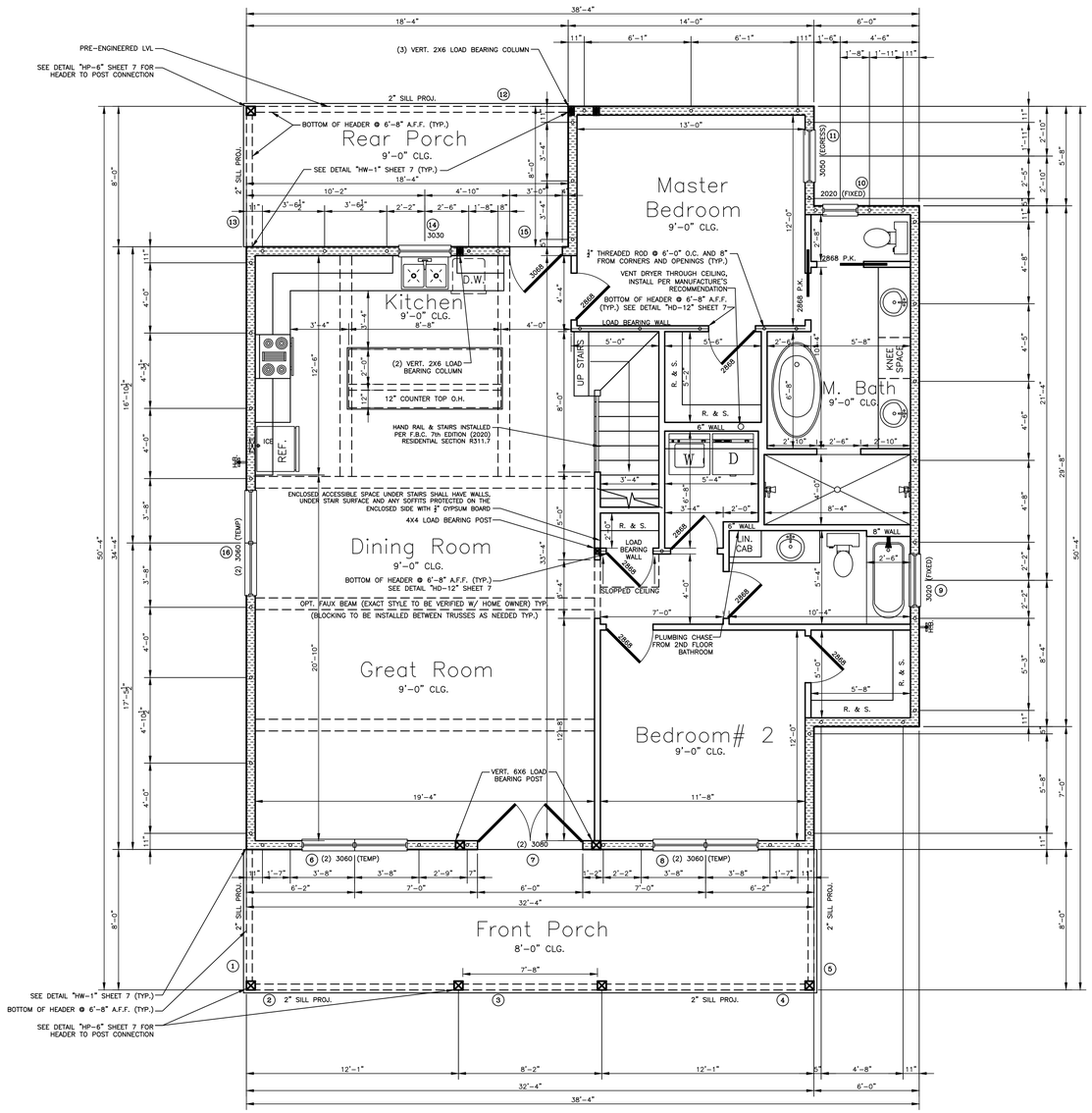
SHEET NO.
2 of 10

CONTRACTOR/MASON TO VERIFY BLOCK WALL HEIGHT BEFORE CONSTRUCTION
ALL INTERIOR DIMENSIONS ARE TO THE BLOCK WALL AND NOT THE FURRING STRIP.



Floor Plan

SCALE: 1/4" = 1'-0"

HEADER SCHEDULE

HEADER MARK	HEADER LENGTH (CLEAR SPAN)	BOTTOM OF LINTEL/HEADER A.F.F.	SPECIFICATIONS / REMARKS
1	7'-6"	6'-8"	FRONT PORCH HDR. SEE DETAIL "HD-12"
2	11'-4"	6'-8"	FRONT PORCH HDR. SEE DETAIL "HD-12"
3	7'-8"	6'-8"	FRONT PORCH HDR. SEE DETAIL "HD-12"
4	11'-4"	6'-8"	FRONT PORCH HDR. SEE DETAIL "HD-12"
5	7'-6"	6'-8"	FRONT PORCH HDR. SEE DETAIL "HD-12"
6	6'-0"	6'-8"	(2) 3060
7	6'-0"	6'-8"	(2) 3068
8	6'-0"	6'-8"	(2) 3060
9	3'-0"	6'-8"	3020 (FIXED)
10	2'-0"	6'-8"	2020 (FIXED)
11	3'-0"	6'-8"	3050
12	17'-10"	6'-8"	LANAI HEADER/PRE-ENGINEERED LVL
13	7'-6"	6'-8"	LANAI HDR. SEE DETAIL "HD-12"
14	3'-0"	6'-8"	3030
15	3'-0"	6'-8"	3068 DOOR
16	6'-0"	6'-8"	(2) 3060
17	6'-0"	6'-8"	(2) 3050

1. SEE PAGE "9 & 10" FOR LINTEL ADDITIONAL INFORMATION
2. CONTRACTOR/SUB CONTRACTOR TO VERIFY RECESS LINTEL LOCATIONS IN LIEU OF STANDARD LINTELS.
3. VERIFY ALL LINTEL LENGTHS AND BEARING HEIGHTS FOR WINDOW ROUGH OPENINGS.
4. OWNER/BUILDER TO VERIFY INSTALLATION PER MANUFACTURE SPECIFICATION

CONTRACTOR/MASON TO VERIFY WALL HEIGHT WITH TRUSS COMPANY BEFORE CONSTRUCTION

ALL INTERIOR DIMENSIONS ARE TO THE BLOCK WALL AND NOT THE FURRING STRIP.

BUILDER TO VERIFY NICHES & HEADER TYPES & ALL CEILING ELEMENTS WITH OWNER & TRUSS COMPANY BEFORE CONSTRUCTION

NOTE TO FRAMER:
VERIFY DOOR CASING WIDTHS BEFORE CONSTRUCTION TO ALLOW FOR ADEQUATE TOLERANCES BETWEEN INTERSECTING WALLS

ANY REFERENCE TO "STUCCO", ON THE PLANS IS ACTUALLY REFERRING TO "CEMENTITIOUS COATING"

SYMBOLS

- ICE — ICE MAKER
- HB — HOSE BIB
- SHOWER HEAD
- SHOWER VALVE CONTROL
- SHOWER HEAD AND WALL MOUNTED TUB SPOUT W/ DIVERTER
- TUB DECK SPOUT
- (X) — HEADER TAG

OWNER/CONTRACTOR TO VERIFY ALL PLUMBING FIXTURES BEFORE CNSTRCTN.

WALL LEGEND

- FRAME WALL
- INSULATED FRAME WALL
- INTERIOR LOAD BEARING WALL
- EXTERIOR 9'-0" FRAME WALL

NBR	DESCRIPTION	DATE
1	ISSUE DATE	T.B.D.

CLIENT:
Tanner Construction Group
16407 NW 174th Dr. Suite E
Alachua, FL 32615
Phone: 386-418-0001
Web Site:
www.Tannerconstructiongroup.com
P.I.D.: 30-5S-16-03738-024

CDE PROJ. NO.: T.B.D.
DESIGNED B.K. CHECKED J.M.G

STOVALL RESIDENCE
362 SW MAYFAIR LN, FL. 34420

K & K DRAFTING AND DESIGN
15872 SE 92ND TERRACE, SUMMERFIELD FL 34491
PHONE: 352-817-6761 EMAIL: JBKRAUSE@KANDKDRAFTING.COM

1ST. LEVEL FLOOR PLAN

PROJECT ENGINEER
CALIBER DESIGN & ENGINEERING LLC
303 S.W. 8TH STREET
UNIT 2
OCALA, FL 34471
(352) 789-6298
REGISTRATION NO. 33188

JOHN M. GARTNER JR. LICENSE No. 70731 STATE OF FLORIDA PROFESSIONAL ENGINEER

JOHN M. GARTNER JR., PE
FLORIDA LICENSE NO. 70731

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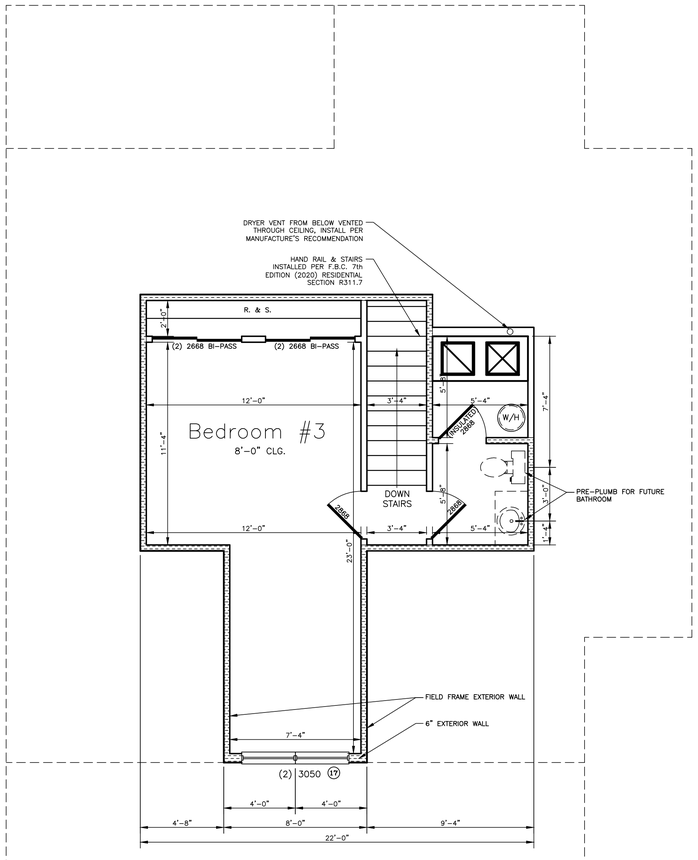

2nd Level Floor Plan

SCALE: 1/4" = 1'-0"

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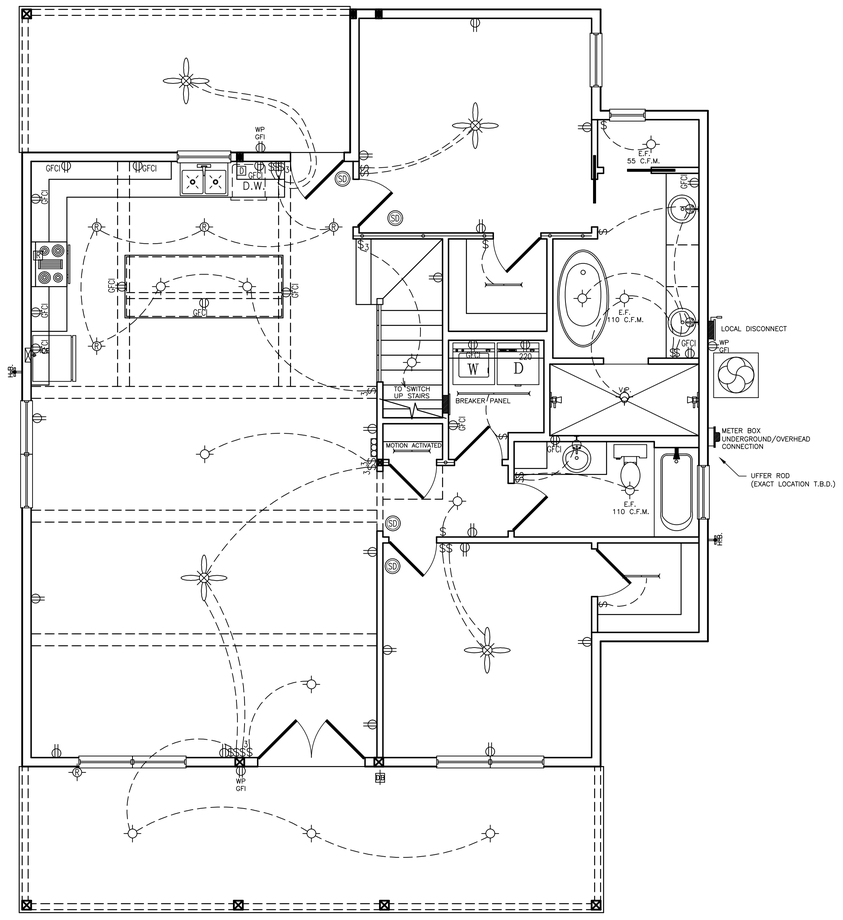

Electrical Plan

SCALE: 1/4" = 1'-0"

ELECTRICAL NOTES

1. DESIGN OF ELECTRICAL SYSTEM SHALL BE THE PERFORMED BY ELECTRICAL CONTRACTOR PRIOR TO INSTALLATION.
2. ALL ELECTRICAL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH NFPA 70-17 BY A LICENSED ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INSTALLATION AND SIZING OF ALL ELECTRICAL, WIRING, AND ACCESSORIES.
3. ELECTRICAL CONTRACTOR SHALL NOT REMOVE, CUT, ALTER ANY TRUSSES, JOISTS, LOAD BEARING STUDS, LINTELS, HEADERS OR ANY OTHER STRUCTURAL COMPONENT UNLESS PERMITTED BY PROVISIONS OF THE BUILDING CODE.
4. ALL ELECTRICAL TO BE MOUNTED ABOVE THE BASE FLOOD ELEVATION.
5. SWITCH AND RECEPTACLE HEIGHTS ARE AS FOLLOWS TO CENTERLINE OF BOX:
   A. STANDARD OUTLETS 16"
   B. STANDARD SWITCHES 44"
   C. KITCHEN COUNTER OUTLETS 44"
   D. BATHROOM OUTLETS 42"
   E. WASHER AND DRYER OUTLETS 36"
   F. PHONE OUTLETS IN KITCHEN: BETWEEN UPPER AND LOWER CABINET 50" TO TOP
   G. REGULAR WALL PHONE 60" TO TOP
6. JUNCTION BOXES WILL NOT BE INSTALLED ON THE FRONT OF ANY BUILDING FOR ANY REASON, ANY CONNECTIONS OUT OF THE FRONT, MUST BE STABBED IN OR LOOPED AROUND FROM THE SIDE OF THE BUILDING FROM A JUNCTION BOX.
7. PROVIDE GFCI TYPE RECEPTACLES AT ALL BATHROOMS, KITCHEN, GARAGES, AND EXTERIOR WATERPROOF RECEPTACLES, OR SUPPLY THROUGH A GROUND FAULT CIRCUIT INTERRUPTER CIRCUIT BREAKER.
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9. LOW VOLTAGE WIRING FOR IRRIGATION IS TO BE ROUGHED IN AT FRAMING STAGE. LOW VOLTAGE WIRE TO BE SUPPLIED BY THE ELECTRICIAN IF APPLICABLE.
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   B. LOW VOLTAGE SURROUND SOUND
   C. LANDSCAPE IRRIGATION SYSTEM
16. PER FBC 7TH EDITION (2020) ENERGY CONSERVATION, SECTION R404 – NOT LESS THAN 90 PERCENT OF THE LAMPS IN PERMANENTLY INSTALLED LUMINARIES SHALL HAVE AN EFFICACY OF AT LEAST 45 LUMENS-PER-WATT OR SHALL UTILIZE LAMPS WITH AN EFFICACY OF NOT LESS THAN 65 LUMENS-PER-WATT.

BUILDING ENGINEER NOTE

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ELECTRICAL LEGEND

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	QUAD RECEPTACLE	$3	3 WAY WALL SWITCH
	1/2 HOT RECEPTACLE	$4	4 WAY WALL SWITCH
WP	WATER PROOF RECEPTACLE	$D	DIMMER SWITCH
220V	220V. RECEPTACLE		CEILING LIGHT
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	VP	VAPOR-PROOF RECESSED CAN
R	RANGE SUPPLY (HOME RUN)		RECESSED CAN
SD	SMOKE DETECTOR W/ CARBON MONOXIDE DETECTOR	EF	EXHAUST FAN W/ RECESSED CAN LIGHT
D	DISHWASHER SUPPLY (HOME RUN)		WALL MOUNTED LIGHT
	CHIME BOX		UNDER CAB./ROPE LIGHTING
	GARAGE DOOR BUTTON		DOOR BELL BUTTON
	ELECTRICAL PANEL	J	JUNCTION BOX
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	TELEPHONE	CB	CABLE TELEVISION
	FAN FIXTURE		FAN FIXTURE WITH LIGHT

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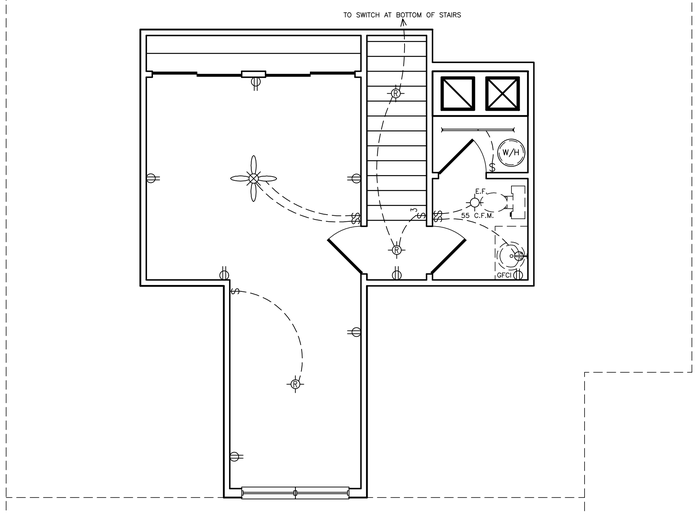

Electrical Plan

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220V	220V. RECEPTACLE		CEILING LIGHT
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R	RANGE SUPPLY (HOME RUN)		RECESSED CAN
SD	SMOKE DETECTOR W/ CARBON MONOXIDE DETECTOR	E.F.	EXHAUST FAN W/ RECESSED CAN LIGHT
D	DISHWASHER SUPPLY (HOME RUN)		WALL MOUNTED LIGHT
	CHIME BOX		UNDER CAB./ROPE LIGHTING
	GARAGE DOOR BUTTON		DOOR BELL BUTTON
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	TELEPHONE	CB	CABLE TELEVISION
	FAN FIXTURE		FAN FIXTURE WITH LIGHT

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2ND. LEVEL ELECTRICAL PLAN

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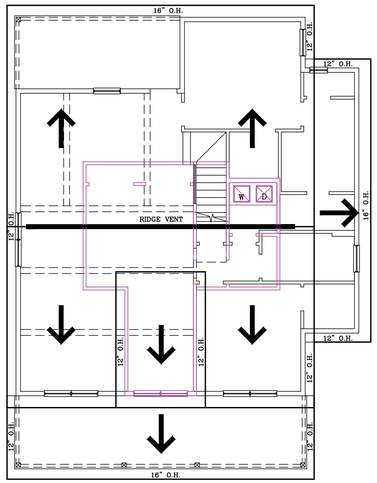
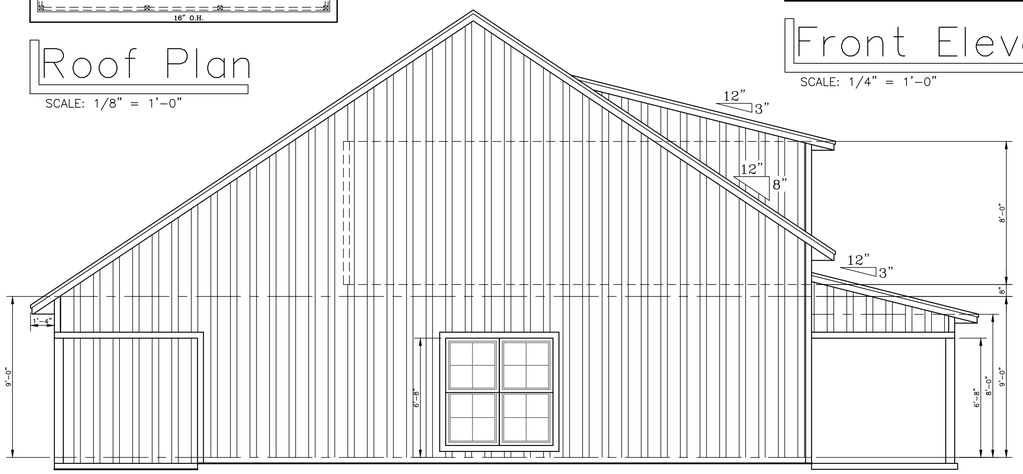


Roof Plan

SCALE: 1/8" = 1'-0"

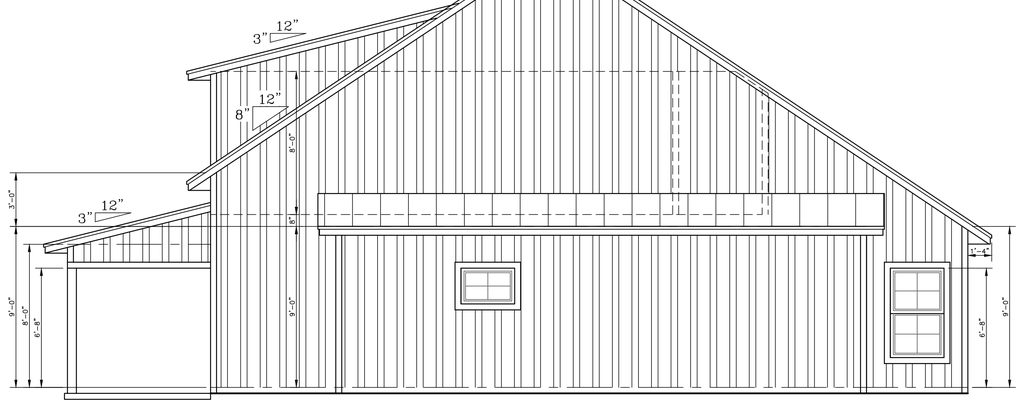
Front Elevation

SCALE: 1/4" = 1'-0"



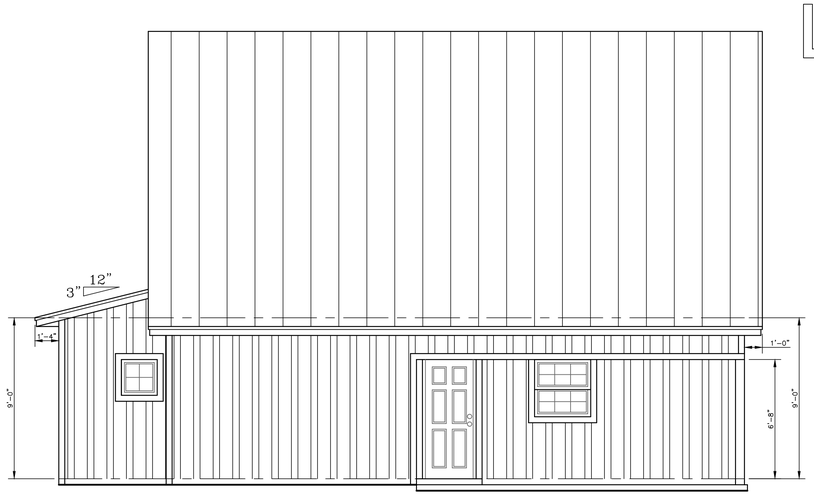
Left Elevation

SCALE: 1/4" = 1'-0"



Right Elevation

SCALE: 1/4" = 1'-0"



Rear Elevation

SCALE: 1/4" = 1'-0"

BUILDING IDENTIFICATION NOTE

MARION COUNTY ORDINANCE #2004-24, REQUIRES HOUSE NUMBERS INSTALLED AT LEAST 4" HIGH AND A COLOR THAT CONTRASTS WITH THE COLOR OF YOUR STRUCTURE. IF THE STRUCTURE IS 50' OR MORE FROM THE STREET, THE NUMBER SHALL BE ADDITIONALLY AFFIXED TO A PERMANENT FIXTURE.

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ELEVATION/ROOF PLAN

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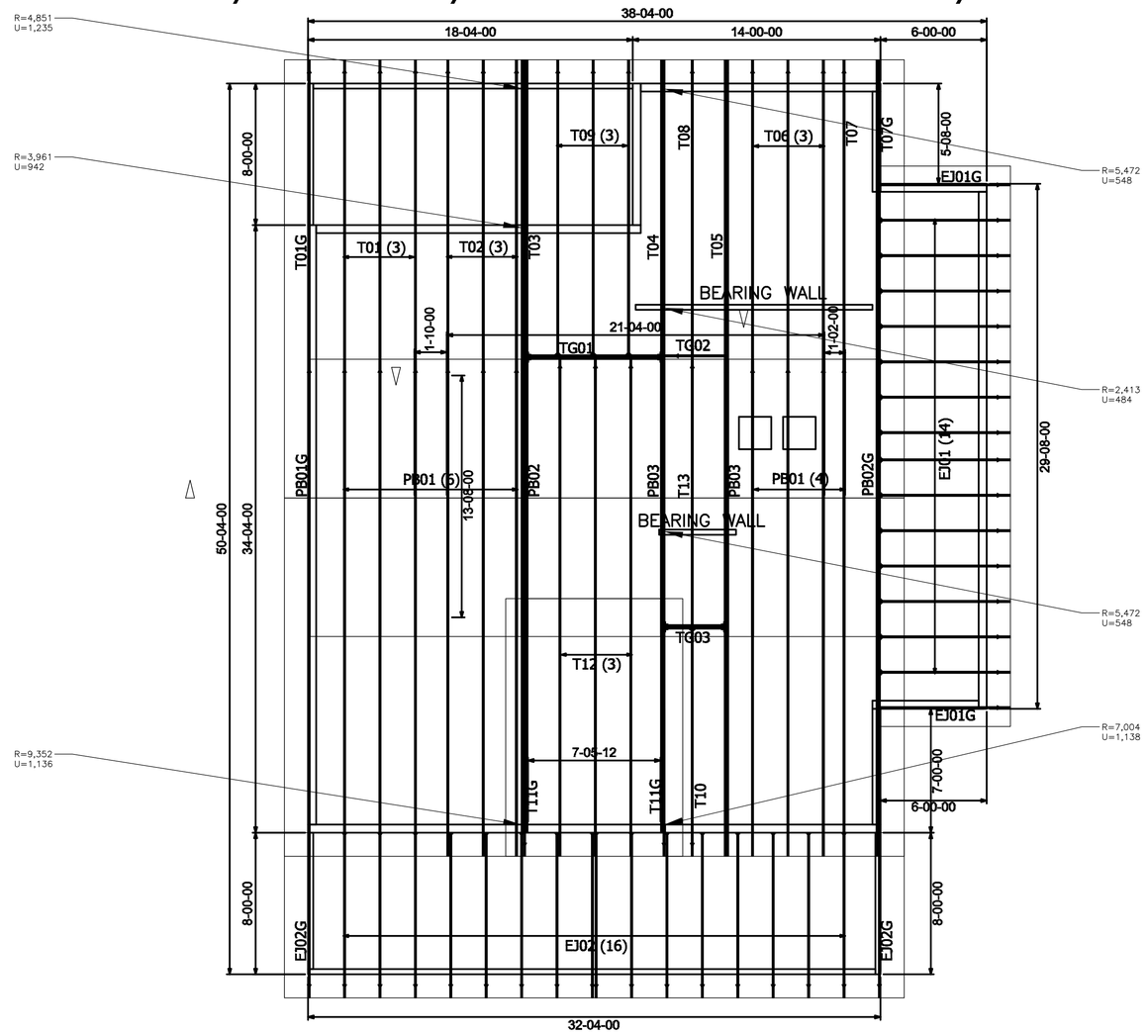
SHEET NO.

8/12 – 3/12 PITCH – 16" O/H



Truss Layout

SCALE: 1/4" = 1'-0"

TRUSS BRACING NOTES

1. TRUSS HANDLING, INSTALLATION, CONSTRUCTION LOADING, TEMPORARY BRACING, AND PERMANENT BRACING SHALL COMPLY WITH BCSI 2015.
2. UNLESS OTHERWISE SPECIFIED, LUMBER USED FOR LATERAL RESTRAINT AND DIAGONAL BRACING SHALL BE SAME TYPE AS TRUSS MATERIAL AND MINIMUM SIZE OF 2X4 NOMINAL. LATERAL RESTRAINT AND BRACING SHALL BE FASTENED TO EACH TRUSS WITH AT LEAST (2) 10D NAILS.
3. TEMPORARY BRACING MAY ALSO BE USED AS PERMANENT BRACING PROVIDED THAT MINIMUM REQUIREMENTS FOR PERMEANT BRACING ARE SATISFIED.
4. GABLE END BRACING SHALL BE INSTALLED WHERE GABLE END HEIGHT IS 4' OF GREATER WHEN MEASURED VERTICALLY FROM THE PLATE HEIGHT.
5. BOTTOM CHORD PERMANENT LATERAL RESTRAINT SHALL BE INSTALLED AS CONTINUOUS ROWS SPACED NO MORE THAN 10' O.C. UNLESS CLOSER SPACING IS REQUIRED BY THE TRUSS DESIGN. ALL LATERAL RESTRAINT TO BE LAPPED AT LEAST 2 TRUSSES.
6. WHERE STRUCTURAL SHEATHING OR GYPSUM BOARD IS NOT INSTALLED AT THE BOTTOM FACE OF THE TRUSS AND UNLESS NOTED OTHERWISE INSTALL ROWS OF DIAGONAL BRACING AT INTERVALS OF NO MORE THAN 20' ALONG THE LENGTH OF THE BUILDING PER BCSI B3-7.
7. INSTALL DIAGONAL SWAY BRACING EVERY 10 TRUSSES (OR 20' MAX) AND AT SAME SPACING AS BOTTOM CHORD LATERAL RESTRAINT PER BCIS FIGURE B3-43. FULL SHEATHED HIP TYPE ROOF SHALL SATISFY SWAY BRACING REQUIREMENT.
8. FOR PIGGY BACK ASSEMBLIES, CONTINUOUS LATERAL RESTRAINT SHALL BE INSTALLED AS CONTINUOUS ROWS SPACED NO MORE THAN 4 FEET O.C. AT TOP CHORD OF SUPPORTING TRUSS. ADDITIONALLY, DIAGONAL BRACING SHALL BE INSTALLED EVERY 10' PER BCSI FIGURE B3-47. ALTERNATIVELY, BRACING FRAME OR 15/32" STRUCTURAL SHEATHING MAY BE USED PER BCSI B3-48.
9. FOR FLOOR TRUSS APPLICATIONS:
   A. PROVIDE A MINIMUM 2X6 CONTINUOUS STRONGBACK ORIENTED WITH THE DEPTH VERTICAL EVERY 10' O.C. AND ATTACHED TO VERTICAL TRUSS MEMBERS WITH (3) 10D NAILS. STRONGBACK SHALL BE BLOCKED MINIMUM 4' OF EACH END.
   B. WHERE STRUCTURAL SHEATHING OR GYPSUM BOARD IS NOT INSTALLED AT THE BOTTOM FACE OF THE TRUSS, BOTTOM CHORD PERMANENT DIAGONAL BRACING SHALL BE INSTALLED EVERY 15 TRUSSES (30' MAX).
   C. PERMANENT DIAGONAL BRACE TO VERTICAL WEBS AT END OF CANTILEVER AND AT INTERIOR AND EXTERIOR BEARING LOCATIONS.
   D. INSTALL SOLID BLOCKING DIRECTLY BENEATH LOAD BEARING COLUMNS TO MAINTAIN A LOAD PATH THROUGH THE FLOOR TO THE UPPORTING STRUCTURE BELOW.

TYPICAL SUPPLIER INFO

COMPANY: BUILDERS 1ST CHOICE
DATE OF TRUSS LAYOUT USED: 03/06/2021

IF OWNER/BUILDER DEVIATES FROM PLANS THAT WERE PROVIDED BY TRUSS SUPPLIER STATED ABOVE THE ENGINEER OF RECORDED SHALL BE REQUIRED TO REVIEW ANY & ALL PROPOSED MODIFICATION BEFORE CONSTRUCTION

RIDGE VENT CALCULATION

THE ROOF SQUARE FOOTAGE FOR ATTIC SPACE IS 2,142 SQ. FT.
2,142 SQ. FT./150 SQ. FT. = 14.28 SQ. FT.
14.28 SQ. FT. = 2,056.32 SQ. IN.
1,029 SQ. IN. INTAKE & 1,029 SQ. IN. EXHAUST REQUIRED
SEE MANUFACTURER'S PRODUCT INFORMATION FOR ALLOWABLE VENTILATION REQUIREMENTS ARE MET. NOT REQUIRED IF NON VENTED ATTIC SPACE IS APPLIED

TYPICAL MASONRY TRUSS CONNECTOR

SINGLE ANCHOR
(1 PLY) USE SIMPSON HETA16 W/ (9) 10D X 1 ½=1,810# UPLIFT

(2–3 PLY) USE SIMPSON HETA16 W/ (8) 16D X 3 ½=1,810# UPLIFT

DOUBLE ANCHOR
(1 PLY) USE (2) SIMPSON HETA24 W/ (10) 10DX 1 ½ =1,920# UPLIFT
(2–3 PLY) USE (2) SIMPSON HETA24 W/ (12) 16DX 3 ½=2,365# UPLIFT

TYPICAL FRAME TRUSS CONNECTOR

(1 PLY) SIMPSON H10A OR EQUAL. USE (9) 10D X 1 1/2" INTO TRUSS & (9) 10D X 1 1/2" INTO STUDS FOR 1,105# UPLIFT

(2 PLY) SIMPSON H10A–2 OR EQUAL. USE (9) 10D X 1 1/2" INTO TRUSS/GIRDER & (9) 10D X 1 1/2" INTO STUDS FOR 1,080# UPLIFT

(3 PLY) SIMPSON LGT3–SDS2.5 2 OR EQUAL. USE (12) 1/4 X 2 1/2" SDS INTO TRUSS/GIRDER & (26) 10D X 3 1/4" INTO MIN. (3) STUDS OR COLUMN FOR 3,480# UPLIFT

TRUSS NOTES

CONTRACTOR OR OWNER TO VERIFY ALL TOP OF WALL HEIGHTS WITH TRUSS COMPANY BEFORE CONSTRUCTION.

ALL TRUSSES SHALL BE PRE–ENGINEERED WOOD TRUSSES @ 24" O.C. TRUSS MFG. SHALL PROVIDE SHOP DRAWINGS & ENGINEERING FOR REVIEW BY PROJECT STRUCTURAL ENGINEER & PERMIT SUBMITTAL PRIOR TO FABRICATION. ALL SPECIAL BRACING SHALL BE INSTALLED AS NOTED ON SHOP DRAWINGS. STRAPPING SHALL CONFORM TO UPLIFT REQUIREMENTS AS SHOWN ON TRUSS ENGINEERING DRAWINGS.

CONTRACTOR TO PROVIDE STRAPPING TO OVERCOME UPLIFT LOADS AS INDICATED IN TRUSS ENGINEERING, PROVIDING A CONTINUOUS TIE FROM ROOF FRAME/ TRUSSES THROUGH BUILDING TO FOUNDATION. STRAPPING SHALL MEET OR EXCEED UPLIFT REQUIREMENTS AT EACH TRUSS CONNECTION LOCATION AS SHOWN ON TRUSS ENGINEERING DRAWINGS

ALL TRUSSES SHALL HAVE A MIN. 2X4 BLOCKING INSTALLED AT ALL RIDGES, HIPS, AND VALLEYS

ALL PORCHES OR EXPOSED CEILINGS OUTSIDE THE EXTERIOR WALL LINE SHALL HAVE 1/2" CDX (APA 32/16 SPAN RATED) PLYWOOD INSTALLED TO UNDERSIDE OF TRUSSES OR FRAMING MATERIAL (NAILED PER WALL SHEATHING NAILING SPECIFICATIONS) TO MAINTAIN ENCLOSED BUILDING STATUS OF STRUCTURAL DESIGN. FINISHED CEILING TO BE INSTALLED TO UNDERSIDE OF PLYWOOD PER BUILDING CONTRACT.

ALL GYPSUM BOARD INSTALLED TO UNDERSIDE OF TRUSSES @ 24"O.C. SHALL BE EITHER 5/8" REGULAR OR 1/2" SAG RESISTANT BOARD INSTALLED PER FBC 2020 RESIDENTIAL R702.3.5, R702.3.6, & R702.3.7

ALL EXTERIOR WALLS, WALL COVERINGS AND SOFFITS SHALL BE CAPABLE OF RESISTING THE DESIGN PRESSURES SPECIFIED IN TABLE R301.2 (2) FOR WALLS

NBR	DESCRIPTION	DATE
1	ISSUE DATE	T.B.D.

CLIENT:
Tanner Construction Group
16407 NW 174th Dr. Suite E
Alachua, FL 32615
Phone: 386-418-0001
Web Site:
www.Tannerconstructiongroup.com
P.I.D.: 30-5S-16-03738-024

CDE PROJ. NO.: T.B.D.

DESIGNED B.K. CHECKED J.M.G

STOVALL RESIDENCE
362 SW MAYFAIR LN, FL. 34420

K & K DRAFTING AND DESIGN
15872 SR 92ND TERRACE, SUMMERFIELD FL 34491
PHONE: 352-817-6761 EMAIL: JBKRAUSE@KANDKDRAFTING.COM

TRUSS LAYOUT

PROJECT ENGINEER

CALIBER DESIGN & ENGINEERING LLC
303 S.W. 8TH STREET
UNIT 2
OCALA, FL 34471
(352) 789-6298
REGISTRATION NO. 33188

PROJECT ENGINEER

JOHN M. GARTNER JR. LICENSE No. 70731 STATE OF FLORIDA PROFESSIONAL ENGINEER

JOHN M. GARTNER JR., PE
FLORIDA LICENSE NO. 70731

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY JOHN M. GARTNER JR., P.E. ON THE DATE ADJACENT TO THE SEAL.

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SHEET NO.

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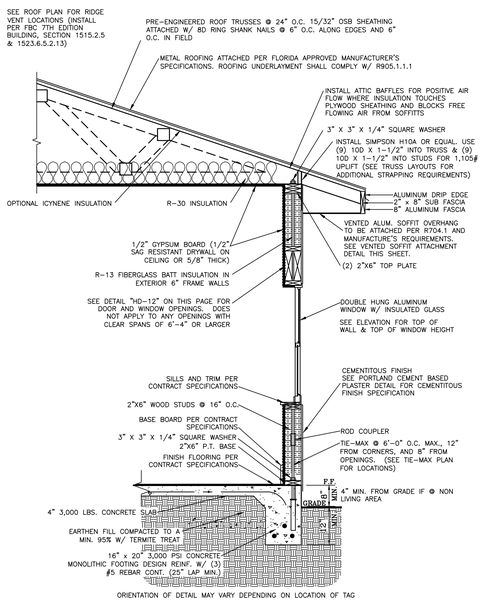
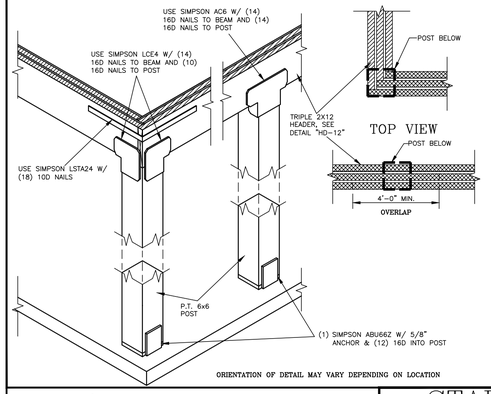
TS-1 TYPICAL WALL SECTION



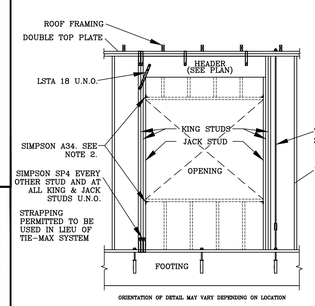
ORIENTATION OF DETAIL MAY VARY DEPENDING ON LOCATION OF TAG

HP-6 HEADER TO POST



ORIENTATION OF DETAIL MAY VARY DEPENDING ON LOCATION

TYP. 8' FRAMING FOR OPENINGS



ORIENTATION OF DETAIL MAY VARY DEPENDING ON LOCATION

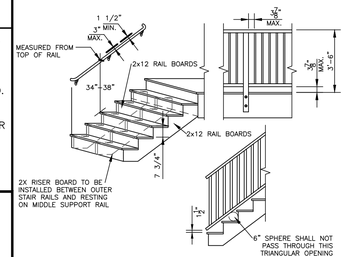
STAIRWAY NOTES

FLORIDA BUILDING CODE SEVENTH EDITION (2020) RESIDENTIAL

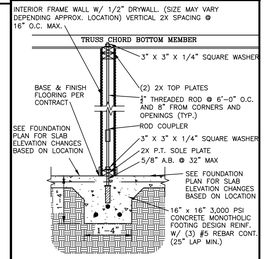
R311.7 STAIRWAYS
R311.7.1 WIDTH.
36" (914mm) MIN. CLEAR WIDTH ABOVE PERMITTED HANDRAIL HEIGHT
31.5" (787mm) MIN. CLEAR WIDTH AT AND BELOW HANDRAIL, IF ONE SIDE ONLY
27" (698mm) MIN. CLEAR WIDTH BELOW HANDRAIL, IF ON BOTH SIDES
R311.7.2 HEADROOM.
6'-8" (2032mm) MIN. MEASURED VERTICALLY FROM THE SLOPED LINE ADJOINING THE TREAD NOSING OR FROM THE SURFACE OF THE LANDING OR PLATFORM ON THAT PORTION OF STAIRWAY
R311.7.3 VERTICAL RISE.
VERTICAL RISE BETWEEN FLOOR LEVELS OR LANDINGS = 12'-6" (3835mm) MAX.
R311.7.5.1 RISERS.
-HEIGHT (RISER): 7.75" (196mm) MAX.
-TOLERANCE BETWEEN RISERS = 3/8" (9.5mm) MAX.
-OPEN RISERS ARE PERMITTED PROVIDING THAT THE OPENING BETWEEN RISERS DO NOT PERMIT PASSAGE OF A 4" DIAMETER (102mm) SPHERE.
R311.7.5.2 TREADS.
TREAD DEPTH: 10" (254mm) MIN.
TOLERANCE BETWEEN TREAD DEPTH = 3/8" (9.5mm) MAX.
R311.7.5.3 NOSINGS.
NOSING RADIUS = 9/16" (14mm) MAX.
NOSING OF 3/4" (19mm) MIN.
NOSING OF 1.25" (32mm) MAX. (SOLID RISERS)
TOLERANCE BETWEEN NOSINGS = 3/8" (9.5mm) MAX.
BEVELING OF NOSES = 1/2" (12.7mm) MAX.
R311.7.6 LANDINGS FOR STAIRWAYS.
THERE SHALL BE A FLOOR OR LANDING AT TOP AND BOTTOM OF EACH STAIRWAY, THE WIDTH PERPENDICULAR TO THE DIRECTION OF TRAVEL SHALL BE NOT LESS THAN THE WIDTH OF THE FLIGHT SERVED.
WHERE THE STAIRWAY HAS A STRAIGHT RUN, THE DEPTH IN THE DIRECTION OF TRAVEL SHALL BE NOT LESS THAN 36" (914mm).
R311.7.8 HANDRAILS.
HANDRAILS SHALL BE PROVIDED ON AT LEAST ONE SIDE OF EACH CONT. RUN OF TREADS OR FLIGHT WITH FOUR OR MORE RISERS
R311.7.8.1 HEIGHT
HANDRAIL HEIGHT = 34" (864mm) MIN. AND 38" (965mm) MAX. (MEASURED VERTICALLY FROM THE SLOPED PLANE ADJOINING THE TREAD NOSING, OR FINISHED SURFACE OF RAMP SLOPE.)
R312.1 GUARDS
GUARDS SHALL BE PROVIDED IN ACCORDANCE WITH SECTIONS R312.1.1 THROUGH R312.1.4

SEE THE FOLLOWING SECTIONS FOR ADDITIONAL STAIR CODE REQUIREMENTS:
R303.7 INTERIOR STAIRWAY ILLUMINATION.
R308.4.6 GLAZING ADJACENT TO STAIRS AND RAMPS.
R507.2 WOOD/PLASTIC COMPOSITES.

NOTES:
SEE EACH CORRESPONDING REFERENCED SECTION ABOVE FOR ADDITIONAL INFORMATION AND EXCEPTIONS. NOT ALL REQUIREMENTS ARE LISTED IN STAIRWAY NOTES.
ENCLOSED ACCESSIBLE SPACE UNDER STAIRS SHALL HAVE WALLS, UNDER STAIR SURFACE AND ANY SOFFITS PROTECTED ON THE ENCLOSED SIDE WITH 1/2" GYPSUM BOARD.

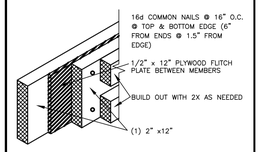


F-24 LOAD BEARING INTERIOR FRAME WALL



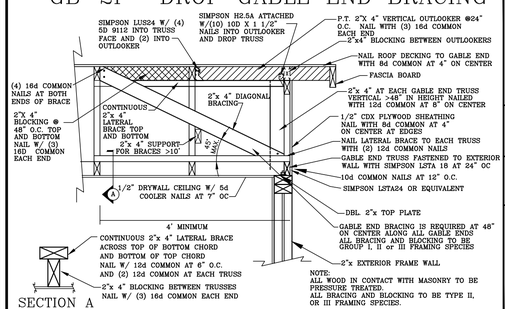
ORIENTATION OF DETAIL MAY VARY DEPENDING ON LOCATION OF TAG

HD-12 HDR. DETAIL



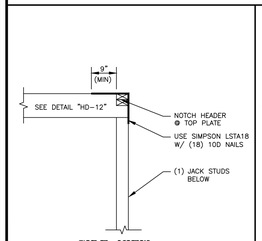
ORIENTATION OF DETAIL MAY VARY DEPENDING ON LOCATION

GB-2F DROP GABLE END BRACING

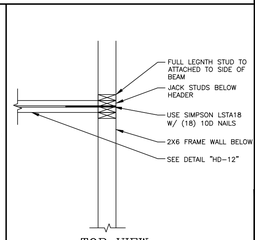


SECTION A

HW-1 HEADER TO WALL CONNECTION



SIDE VIEW



TOP VIEW

MINIMUM NUMBER OF STUDS AT LOAD BEARING AND WIND EXPOSED WALLS*

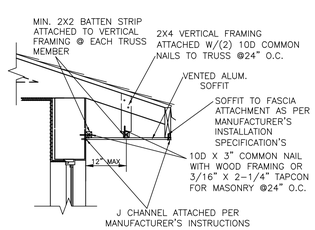
OPENING WIDTH (FT.)	NUMBER OF JACK STUDS 2x4 / 2x6	NUMBER OF KING STUDS 2x4 & 2x6
<3	1 / 1	1
3	1 / 1	2
4	1 / 1	2
5	1 / 1	2
6	2 / 1	2
8	2 / 2	3
10	2 / 2	4
12	2 / 2	4
14	3 / 2	5
16	3 / 2	6
18	3 / 2	6

NOTE: MINIMUM NUMBER OF STUDS LISTED IN TABLE SHALL APPLY TO ALL WIND EXPOSED OPENINGS, LOAD BEARING, UNLESS NOTED OTHERWISE. SEE PLANS FOR ADDITIONAL STUD REQUIREMENTS.
*MAX WALL HEIGHT 8'-0"
** NUMBER OF STUDS BASED ON WFCM2015 TABLES 3.22 & 3.23D.

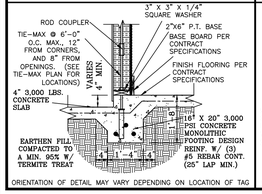
NOTES:
1. STRAP TOP-PLATE TO HEADER W/SIMPSON SP4 WHERE HEADER IS GREATER THAN 4' IN LENGTH, UNLESS NOTED OTHERWISE.
2. A34 REQUIRED AT JAMBS FOR OPENINGS GREATER THAN 6'

VINYL SOFFIT ATTACHMENT DETAIL

NOTE: SOFFITS SPANNING OVER 12" SHALL HAVE INTERMEDIATE SUPPORTS NO MORE THAN 12" O.C.

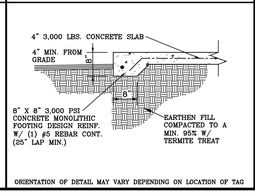


F-11F FOOTING @ STEP DOWN & 6" FRAME WALL



ORIENTATION OF DETAIL MAY VARY DEPENDING ON LOCATION OF TAG

F-6 8" THICKENED EDGE FOOTER DETAIL



ORIENTATION OF DETAIL MAY VARY DEPENDING ON LOCATION OF TAG

NBR	DESCRIPTION	DATE
1	ISSUE DATE	T.B.D.

CLIENT:
Tanner Construction Group
16407 NW 174th Dr. Suite E
Alachua, FL 32615
Phone: 386-418-0001
Web Site:
www.Tannerconstructiongroup.com
P.I.D.: 30-5S-16-03738-024
CDE PROJ. NO.: T.B.D.
DESIGNED B.K. CHECKED J.M.G

STOVALL RESIDENCE
362 SW MAYFAIR LN, FL, 34420

K & K DRAFTING AND DESIGN
15872 SR 92ND TERRACE, SUMMERFIELD FL 34491
PHONE: 352-817-6761 EMAIL: JBKRAUSE@KANDKDRAFTING.COM

CONSTRUCTION NOTES/DETAIL

PROJECT ENGINEER

CALIBER DESIGN & ENGINEERING LLC
303 S.W. 6TH STREET
UNIT 2
OCALA, FL 34471
(352) 789-8298
REGISTRATION NO. 33188

JOHN M. GARTNER JR. LICENSE No. 70731 STATE OF FLORIDA PROFESSIONAL ENGINEER

JOHN M. GARTNER JR., PE
FLORIDA LICENSE NO. 70731

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SHEET NO.
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TYPICAL FASTENING SCHEDULE
FBCB TABLE 2304.10.1

ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION
	Roof		
1	Blocking between ceiling joists or rafters to top plate	3-8d common (2-1/2" X 0.131"); or 3-10d box (3" X 0.128"; or 3-3" X 0.131" nails	Each end, toenail
2	Ceiling joists to top plate	3-8d common (2-1/2" X 0.131"; or 3-10d box (3" X 0.128"; or 3-3" X 0.131" nails	Each joist, toenail
3	Ceiling joist not attached to parallel rafter, laps over partitions (no thrust) [see FBCR section 2301.2]	3-16d common (3-1/2" X 0.162"; or 4-10d box (3" X 0.128"; or 4-3" X 0.131" nails	Face nail
4	Ceiling joist attached to parallel rafter (heel joint) [see FBCB Section 2301.2]	Per FBCB Section 2301.2	Face nail
5	Collar tie to rafter	3-10d common (3" × 0.148"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails	Face nail
6	Rafter or roof truss to top plate (see FBCB Section 2301.2	3-10d common nails (3" × 0.148"); or 3-16d box (3-1/2" × 0.135"); or 4-10d box (3" × 0.128"; or 4-3" × 0.131" nails	Toenail[c]
7	Roof rafters to ridge, valley or hip rafters or roof rafter to minimum 2" ridge beam	2-16d common (3-1/2" × 0.162"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails	End nail
		3-10d common (3" × 0.148"); or 4-16d box (3-1/2" × 0.135"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails	Toenail
	Wall		
8	Stud to stud (not at braced wall panels)	16d common (3-1/2" × 0.162")	24" o.c. face nail
		10d box (3" × 0.128"; or 3" × 0.131" nails	16" o.c. face nail
9	Stud to stud and abutting studs at intersecting wall corners (at braced wall panels)	16d common (3/1/2" × 0.162"); or	16" o.c. face nail
		16d box (3-1/2" X 0.135"); or	12" o.c. face nail
		3" X 0.131" nails	12" o.c. face nail
10	Built-up header (2" to 2" header)	16d common (31/2" × 0.162")	16" o.c. each edge face nail
		16d box (3-1/2" X 0.162")	12" o.c. each edge face nail
11	Continuous header to stud	4-8d common (2-1/2" X 0.131"; or 4-10d box (3" X 0.128")	Toe nail
12	Top plate to top plate	16d common (31/2" × 0.162"); or	16" o.c. face nail
		10d box (3" X 0.128"; or 3" X 0.131" nails	12" o.c. face nail
13	Top plate to top plate, at end joints	8-16d common (3-1/2" X 0.162"); or 12-10d box (3" × 0.128"; or 12-3" × 0.131" nails	Each side of mend joint, face nail (minimum 24" lap splice length each side of end joint)
14	Bottom plate to joist, rim joist, band joist or blocking (not at braced wall panels)	16d common (31/2" × 0.162")	16" o.c. face nail
		3-16d box (31/2" × 0.135"); or 3" × 0.131" nails	12" o.c. face nail
15	Bottom plate to joist, rim joist, band joist or blocking at braced wall panels	2-16d common (31/2" × 0.162"); or 3-16d box (31/2" × 0.135"); or 4-3" X 0.131" nails	16" o.c. face nail
16	Stud to top or bottom plate	4-8d common (2-1/2" X 0.131"; or 4-10d box (3" X 0.128"; or 4-3" × 0.131" nails	Toe nail
		2-16d common (31/2" × 0.162"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails	End nail
17	Top plates, laps at corners and intersections	2-16d common (31/2" × 0.162"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails	Face nail
18	1" brace to each stud and plate	2-8d common (21/2" × 0.131"); or 2-10d box (3" × 0.128"); or 2-3" × 0.131" nails	Face nail
19	1" × 6" sheathing to each bearing	2-8d common (21/2" × 0.131"); or 2-10d box (3" × 0.128")	Face nail
20	1" × 8" and wider sheathing to each bearing	3-8d common (21/2" × 0.131"); or 3-10d box (3" × 0.128")	Face nail
	Floor		
21	Joist to sill, top plate or girder	3-8d common (21/2" × 0.131"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails	Toenail
22	Rim joist, band joist, or blocking to top plate, sill or other framing below	8d common (21/2" × 0.131"); or 10d box (3" × 0.128"; or 3" × 0.131" nails	6" o.c. toe nail
23	1" × 6" subfloor or less to each joist	2-8d common (21/2" × 0.131"); or 2-10d box (3" × 0.128")	Face nail

TYPICAL FASTENING SCHEDULE (CONTINUED)
FBCB TABLE 2304.10.1

ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION
	Floor		
24	2" subfloor to joist or girder	2-16d common (3-1/2" × 0.162")	Face nail
25	2" planks (plank & beam - floor & roof)	2-16d common (3-1/2" × 0.162")	Each bearing, face nail
26	Built-up girders and beams, 2" lumber layers	20d common (4" × 0.192")	32" o.c., face nail at top and bottom staggered on opposite sides
		10d box (3" × 0.128"; or 3" × 0.131" nails	24" o.c., face nail at top and bottom staggered on opposite sides
		2-20d box (4" × 0.192"; or 3-10d box (3" × 0.128"; or 3-3" × 0.131" nails	Ends and at each splice, face nail
27	Ledger strip supporting joists or rafters	3-16d common (3-1/2" × 0.162"); or 4-10d box (3" × 0.128"; or 4-3" × 0.131" nails	Each joist or rafter, face nail
28	Joist to band joist or rim joist	3-16d common (3-1/2" × 0.162"); or 4-10d box (3" × 0.128"; or 4-3" × 0.131" nails	End nail
29	Bridging or blocking to joist, rafter or truss	2-8d common (21/2" × 0.131"); or 2-10d box (3" × 0.128"; or 2-3" × 0.131" nails	Each end, toenail

Wood structural panels, subfloor, roof and interior wall sheathing to framing and particleboard wall sheathing to framing (see Table R602.3(3) for wood structural panel exterior wall sheathing to wall framing)[a]

ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING OF FASTENERS	
			Edges (inches)	Intermediate supports (inches)
30	3/8" – 1/2"	6d common or deformed (2" × 0.113") nail (subfloor and wall)	6	12
		8d common or deformed (2-1/2" × 0.131") nail (roof) or RSRS-01 (2-3/8" X 0.113") nail (roof)[d]	6	12
		2-3/8" X 0.113" nail (subfloor and wall)	6	12
		2-3/8" X 0.113" nail (roof)	4	8
31	19/32" – 3/4"	8d common (21/2" × 0.131"); or 6d deformed (2" × 0.113") (subfloor and wall)	6	12
		8d common or deformed (2-1/2" × 0.131") nail (roof) or RSRS-01 (2-3/8" X 0.113") nail (roof)[d]	6	12
		2-3/8" X 0.113" nail	4	8
32	7/8" – 1-1/4"	10d common (3" × 0.148"); or 8d deformed (2-1/2" × 0.131")	6	12
		Other wall sheathing		
33	1/2" fiberboard sheathing[b]	1-1/2" galvanized roofing nail, (7/16" head diameter)	3	6
34	25/32" fiberboard sheathing[b]	1-3/4" galvanized roofing nail, (7/16" head diameter)	3	6
		Wood structural panels, combination subfloor underlayment to framing		
35	3/4" and less	8d common (2-1/2" X 0.131"); or 6d deformed (2" × 0.113")	6	12
36	7/8" – 1"	8d common (2-1/2" X 0.131"); or 8d deformed (2-1/2" × 0.131")l	6	12
37	1-1/8" – 1-1/4"	10d common (3" × 0.148"); or 8d deformed (2-1/2" × 0.131")	6	12
		Panel siding to framing		
38	1/2" or less	6d corrosion-resistant siding (1-7/8" X 0.106); or 6d corrosion-resistant casing (2" X 0.099")	6	12
39	5/8"	8d corrosion-resistant siding (2-3/8" X 0.128); or 8d corrosion-resistant casing (2-1/2" X 0.113")	6	12

a. Nails spaced at 6 inches at intermediate supports where spans are 48 inches or more. For nailing of wood structural panel and particleboard diaphragms and shear walls, refer to Section 2305. Nails for wall sheathing are permitted to be common, box or casing.Staples are 16 gage wire and have a minimum 7/16-inch on diameter crown width.
b. Spacing shall be 6 inches on center on the edges and 12 inches on center at intermediate supports for nonstructural applications. Panel supports at 16 inches (20 inches if strength axis in the long direction of the panel, unless otherwise marked).Four-foot by 8-foot or 4-foot by 9-foot panels shall be applied vertically.
c. Where a rafter is fastened to an adjacent parallel ceiling joist in accordance with this schedule and the ceiling joist is fastened to the top plate in accordance with this schedule, the number of toenails in the rafter shall be permitted to be reduced by one nail.
d. RSRS-01 is a Roof Sheathing Ring Shank nail meeting the specifications in ASTM F1667.

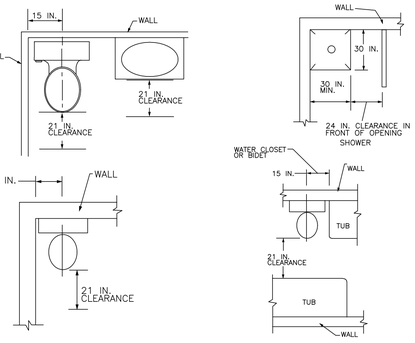
TABLE R703.3(1) WEATHER–RESISTANT SIDING ATTACHMENT AND MINIMUM THICKNESS

TABLE R703.3(1)
SIDING MINIMUM ATTACHMENT AND MINIMUM THICKNESS

SIDING MATERIAL		NOMINAL THICKNESS (inches)	JOINT TREATMENT	TYPE OF SUPPORTS FOR THE SIDING MATERIAL AND FASTENERS					
				Wood or wood structural sheathing into stud	Fiberboard sheathing into stud	Gypsum sheathing into stud	Foam plastic sheathing into stud[i]	Direct to studs	Number or spacing of fasteners
Anchored veneer: brick, concrete, masonry or stone (see Section R703.8)		2	Section R703.8	Section R703.8					
Adhered veneer: concrete, stone or masonry (see Section R703.12)		—	Section R703.12	Section R703.12					
Fiber cement siding	Panel siding (see Section R703.10.1)	5/16	Section R703.10.1	6d common (2" × 0.113")	6d common (2" × 0.113")	6d common (2" × 0.113")	6d common (2" × 0.113")	4d common (1-1/2" X 0.099")	6" panel edges 12" sup.
	Lap siding (see Section R703.10.2)	5/16	Section R703.10.2	6d common (2" × 0.113")	6d common (2" × 0.113")	6d common (2" × 0.113")	6d common (2" × 0.113")	6d common (2" × 0.113") or 11 gage roofing nail	Note f
Hardboard panel siding (see Section R703.5)		7/16	—	0.120" nail (shank) with 0.225" head	0.120" nail (shank) with 0.225" head	0.120" nail (shank) with 0.225" head	0.120" nail (shank) with 0.225" head	0.120" nail (shank) with 0.225" head	6" panel edges 12" inter. sup.[k]
Hardboard lap siding (see Section R703.5)		7/16	Note g	0.099" nail (shank) with 0.240" head	0.099" nail (shank) with 0.240" head	0.099" nail (shank) with 0.240" head	0.099" nail (shank) with 0.240" head	0.099" nail (shank) with 0.240" head	Same as stud spacing 2 per bearing
Horizontal aluminum[a]	Without insulation	0.019[b]	Lap	Siding nail 1-1/2" × 0.120"	Siding nail 2" × 0.120"	Siding nail 2" × 0.120"	Siding nail[h] 1-1/2" × 0.120"	Not allowed	Same as stud spacing
		0.024	Lap	Siding nail 1-1/2" × 0.120"	Siding nail 2" × 0.120"	Siding nail 2" × 0.120"	Siding nail[h] 1-1/2" × 0.120"	Not allowed	
	With insulation	0.019	Lap	Siding nail 1-1/2" × 0.120"	Siding nail 2-1/2" × 0.120"	Siding nail 2-1/2" × 0.120"	Siding nail[h] 1-1/2" × 0.120"	Siding nail 1-1/2" × 0.120"	
Insulated vinyl siding[j]		0.035 (vinyl siding layer only)	Lap	0.120 nail (shank) with a 0.313 head or 16-gage crown[h]	0.120 nail (shank) with a 0.313 head or 16-gage crown[h]	0.120 nail (shank) with a 0.313 head or 16-gage crown[h]	0.120 nail (shank) with a 0.313 head See Section R703.11.2	Not allowed	16 inches on center or specified by manufacturer instructions, test report or other sections of this code
Polypropylene siding[g]		Not applicable	Lap	Section 703.14.1	Section 703.14.1	Section 703.14.1	Section 703.14.1	Not allowed	As specified by the manufacturer instructions, test report or other sections of this code
Steel[c]		29 ga.	Lap	Siding nail (1-3/4" × 0.113")	Siding nail (2-3/4" × 0.113")	Siding nail (2-1/2" × 0.113")	Siding nail (1-3/4" × 0.113")	Not allowed	Same as stud spacing
Vinyl siding (see Section R703.11)		0.035	Lap	See Section R703.11.					
Wood siding (see Section R703.5)	Wood rustic, drop	3/8 min. Lap	Lap	6d box or siding nail (2" × 0.099")	6d box or siding nail (2" × 0.099")	6d box or siding nail (2" × 0.099")	6d box or siding nail (2" × 0.099")	8d box or siding nail (2-1/2" × 0.113")	Face nailing up to 6" widths, 1 nail per bearing; 8" widths and over, 2 nails per bearing
	Shiplap	19/32 average	Lap						
	Bevel	7/16	Lap						
	Butt tip	3/16	Lap						
Wood structural panel ANSI/APA PRP-210 siding (exterior grade) (see Section R703.5)		3/8 – 1/2	Note e	2" × 0.099" siding nail	2-1/2" × 0.113" siding nail	2-1/2" × 0.113" siding nail	2-1/2" × 0.113" siding nail	2" × 0.099" siding nail	6" panel edges 12" inter. sup.
Wood structural panel lap siding (see Section R703.5)		3/8 – 1/2	Note e Note g	2" × 0.099" siding nail	2-1/2" × 0.113" siding nail	2-1/2" × 0.113" siding nail	2-1/2" × 0.113" siding nail	2" × 0.099" siding nail	8" along bottom edge

For SI: 1 inch = 25.4 mm.
a. Aluminum nails shall be used to attach aluminum siding.
b. Aluminum (0.019 inch) shall be unbacked only where the maximum panel width is 10 inches and the maximum flat area is 8 inches. The tolerance for aluminum siding shall be +0.002 inch of the nominal dimension.
c. Shall be of approved type.
d. Where used to resist shear forces, the spacing must be 4 inches at panel edges and 8 inches on interior supports.
e. Vertical end joints shall occur at studs and shall be covered with a joint cover or shall be caulked.
f. Face nailing: one 6d common nail through the overlapping planks at each stud. Concealed nailing: one 11-gage 1 1/2 -inch-long galv. roofing nail through the top edge of each plank at each stud in accordance with the manufacturer's installation instructions.
g. Vertical joints, if staggered, shall be permitted to be away from studs if applied over wood structural panel sheathing.
h. Minimum fastener length must be sufficient to penetrate sheathing other nailable substrate and framing a total of a minimum of 11/4 inches or in accordance with the manufacturer's installation instructions.
i. Where specified by the manufacturer's instructions and supported by a test report, fasteners are permitted to penetrate into or fully through nailable sheathing or other nailable substrate of minimum thickness specified by the instructions or test report, without penetrating into framing.
j. Insulated vinyl siding shall comply with ASTM D7793.
k. Polypropylene siding shall comply with ASTM D7254.
l. Cladding attachment over foam sheathing shall comply with the additional requirements and limitations of Sections R703.15, R703.16 and R703.17.

FIG. R307.1 MINIMUM FIXTURE CLEARANCES



R903.2.1 METAL FLASHING

R903.2.1 LOCATIONS. FLASHINGS SHALL BE INSTALLED AT WALL AND ROOF INTERSECTIONS, WHEREVER THERE IS A CHANGE IN ROOF SLOPE OR DIRECTION AND AROUND ROOF OPENINGS. WHERE FLASHING IS OF METAL, THE METAL SHALL BE CORROSION RESISTANT WITH A THICKNESS OF NOT LESS THAN PROVIDED IN TABLE R903.2.1 (1) IN COMPLIANCE WITH RAS 111.
EXCEPTION: FLASHING IS NOT REQUIRED AT HIP AND RIDGE JUNCTIONS.

METAL FLASHING MATERIAL

MATERIAL	GAGE MINIMUM THICKNESS (INCHES)	GAGE	WEIGHT (lbs per sq.ft)
COPPER	0.024	—	1 (16 OZ)
ALUMINUM	0.024	—	—
STAINLESS STEEL	—	28	—
GALVANIZED STEEL	0.0179	26 (ZINC COATED G90)	26 (ZINC COATED G90)
ALUMINUM ZINC COATED STEEL	0.0179	26 (AZ50 ALUM ZINC)	26 (AZ50 ALUM ZINC)
ZINC ALLOY	0.027	—	—
LEAD	—	2.5 (40 OZ.)	—
PAINTED TERNE	—	—	1.25 (20 OZ.)

FBCR TABLE R905.1.1.1 UNDERLAYMENT WITH SELF–ADHERING STRIPS OVER ROOF DECKING JOINTS

2:12 = ROOF SLOPE < 4:12

APPLY IN ACCORDANCE WITH SECTION R905.1.1.1, ITEM 4 OR SECTION R905.1.1.3, ITEM 3 AS APPLICABLE TO THE TYPE OF ROOF COVERING.

ROOF SLOPE > 4:12

UNDERLAYMENT SHALL BE APPLIED SHINGLE FASHION, PARALLEL TO AND START–ING FROM THE EAVE AND LAPPED 4 INCHES (51 MM); END LAPS SHALL BE 6 INCHES AND SHALL BE OFFSET BY 6 FEET. THE UNDERLAYMENT SHALL BE ATTACHED TO A NAILABLE DECK WITH TWO STAGGERED ROWS IN THE FIELD OF THE SHEET WITH A MAXIMUM FASTENER SPACING OF 12 INCHES (305 MM) O.C., AND ONE ROW AT THE END AND SIDE LAPS FASTENED 6 INCHES (152MM) O.C. UNDERLAYMENT SHALL BE ATTACHED USING ANNULAR RING OR DEFORMED SHANK NAILS WITH METAL OR PLASTIC CAPS WITH A NOMINAL CAP DIAMETER OF NOT LESS THAN 1 INCH. METAL CAPS ARE REQUIRED WHERE THE ULTIMATE DESIGN WIND SPEED, V_{ULT}, EQUALS OR EXCEEDS 170 MPH. METAL CAPS SHALL HAVE A THICKNESS OF NOT LESS THAN 32–GAGE SHEET METAL. POWER–DRIVEN METAL CAPS SHALL HAVE A MINIMUM THICKNESS OF 0.010 INCH. MINIMUM THICKNESS OF THE OUTSIDE EDGE OF PLASTIC CAPS SHALL BE 0.035 INCH. THE CAP NAIL SHANK SHALL BE NOT LESS THAN 0.083 INCH FOR RING SHANK CAP NAILS AND 0.091 INCH FOR SMOOTH SHANK CAP NAILS. CAP NAIL SHANK SHALL HAVE A LENGTH SUFFICIENT TO PENETRATE THROUGH THE ROOF SHEATHING OR NOT LESS THAN 3/4 INCH INTO THE ROOF SHEATHING.

R905.2.8.2 VALLEYS

R905.2.8.2 VALLEYS.
VALLEY LININGS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS BEFORE APPLYING SHINGLES. VALLEY LININGS OF THE FOLLOWING TYPES SHALL BE PERMITTED:

1. FOR OPEN VALLEYS (VALLEY LINING EXPOSED) LINED WITH METAL, THE VALLEY LINING SHALL BE NOT LESS THAN 16 INCHES (406 MM) WIDE AND OF ANY OF THE CORROSION–RESISTANT METALS IN TABLE R903.2.1.

2. FOR OPEN VALLEYS, VALLEY LINING OF TWO PLIES OF MINERAL–SURFACED ROLL ROOFING, COMPLYING WITH ASTM D3909 OR ASTM D6380 CLASS M, SHALL BE PERMITTED. THE BOTTOM LAYER SHALL BE 18 INCHES (457 MM) AND THE TOP LAYER NOT LESS THAN 36 INCHES (914 MM) WIDE.

3. FOR CLOSED VALLEYS (VALLEY COVERED WITH SHINGLES), VALLEY LINING OF ONE PLY OF SMOOTH ROLL ROOFING COMPLYING WITH ASTM D6380 CLASS S AND NOT LESS THAN 36 INCHES WIDE (914 MM) OR VALLEY LINING AS DESCRIBED IN ITEM 1 OR 2 SHALL BE PERMITTED. SELF–ADHERING POLYMER MODIFIED BITUMEN UNDER–LAYMENT COMPLYING WITH ASTM D1970 SHALL BE PERMITTED IN LIEU OF THE LINING MATERIAL.

R703 EXTERIOR COVERING

R703.2 WATER–RESISTIVE BARRIER.
ONE LAYER OF NO. 15 ASPHALT FELT, FREE FROM HOLES AND BREAKS, COMPLYING WITH ASTM D226 FOR TYPE I FELT OR OTHER APPROVED WATER–RESISTIVE BARRIER SHALL BE APPLIED OVER STUDS OR SHEATHING OF ALL EXTERIOR WALLS. NO. 15 ASPHALT FELT SHALL BE APPLIED HORIZONTALLY, WITH THE UPPER LAYER LAPPED OVER THE LOWER LAYER NOT LESS THAN 2 INCHES (51 MM). WHERE JOINTS OCCUR, FELT SHALL BE LAPPED NOT LESS THAN 6 INCHES. (152 MM). OTHER APPROVED MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE WATER–RESISTIVE BARRIER MANUFACTURER'S INSTALLATION INSTRUCTIONS. THE NO. 15 ASPHALT FELT OR OTHER APPROVED WATER–RESISTIVE BARRIER MATERIAL SHALL BE CONTINUOUS TO THE TOP OF WALLS AND TERMINATED AT PENETRATIONS AND BUILDING APPENDAGES IN A MANNER TO MEET THE REQUIREMENTS OFF THE EXTERIOR WALL ENVELOPE AS DESCRIBED IN SECTION R703.1. THE WATER–RESISTIVE BARRIER IS NOT REQUIRED FOR DETACHED ACCESSORY BUILDINGS.
R703.5 WOOD, HARDBOARD AND WOOD STRUCTURAL PANEL SIDING. WOOD, HARDBOARD, AND WOOD STRUCTURAL PANEL SIDING SHALL BE INSTALLED IN ACCORDANCE WITH TABLE R703.3(1). HARDBOARD SIDING SHALL COMPLY WITH CPA/ANSI A135.6. HARDBOARD SIDING USED AS ARCHITECTURAL TRIM SHALL COMPLY WITH CPA/ANSI A135.7.
R703.5.1 VERTICAL WOOD SIDING.
WOOD SIDING APPLIED VERTICALLY SHALL BE NAILED TO HORIZONTAL NAILING STRIPS OR BLOCKING SET NOT MORE THAN 24 INCHES (610 MM) ON CENTER.
R703.5.2 PANEL SIDING.
3/8" (9.5 MM) WOOD STRUCTURAL PANEL SIDING SHALL NOT BE APPLIED DIRECTLY TO STUDS SPACED MORE THAN 16 INCHES (406 MM) ON CENTER WHERE LONG DIMENSION IS PARALLEL TO STUDS. WOOD STRUCTURAL PANEL SIDING 7/16" INCH (11.1 MM) OR THINNER SHALL NOT BE APPLIED DIRECTLY TO STUDS SPACED MORE THAN 24 INCHES (610 MM) ON CENTER. THE STUD SPACING SHALL NOT EXCEED THE PANEL SPAN RATING PROVIDED BY THE MANUFACTURER UNLESS THE PANELS ARE INSTALLED WITH THE FACE GRAIN PERPENDICULAR TO THE STUDS OR OVER SHEATHING APPROVED FOR THAT STUD SPACEING.
JOINTS IN WOOD, HARDBOARD OR STRUCTURAL PANEL SIDING SHALL BE MADE AS FOLLOWS UNLESS OTHERWISE APPROVED. VERTICAL JOINTS IN PANEL SIDING SHALL OCCUR OVER FRAMING MEMBERS, UNLESS WOOD OR WOOD STRUCTURAL PANEL SHEATHING IS USED, AND SHALL BE SHIPLAPPED OR COVERED WITH A BATTEN. HORIZONTAL JOINTS IN PANEL SIDING SHALL BE LAPPED NOT LESS THAN 1 INCH (25 MM) OR SHALL BE SHIPLAPPED OR FLASHED WITH Z–FLASHING AND OCCUR OVER SOLID BLOCKING, WOOD OR WOOD STRUCTURAL PANEL SHEATHING.
R703.5.3 HORIZONTAL WOOD SIDING.
HORIZONTAL LAP SIDING SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. WHERE THERE ARE NO RECOMMENDATIONS THE SIDING SHALL BE LAPPED NOT LESS THAN 1 INCH (25 MM) OR ⅝ INCH (12.7 MM) IF RABBETED, AND SHALL HAVE THE ENDS CAULKED, COVERED WITH A BATTEN OR SEALED AND INSTALLED OVER A STRIP OF FLASHING.

SEE FBC 7TH EDITION 2020 RESIDENTIAL, SECTION R703 FOR EXTERIOR COVERINGS FOR ADDITIONAL INFORMATION

R905.1.1.3 UNDERLAYMENT FOR WOOD SHAKES AND SHINGLES

1. A MINIMUM 4–INCH–WIDE (102 MM) STRIP OF SELF–ADHERING POLYMER–MODIFIED BITUMEN MEMBRANE COMPLYING WITH ASTM D1970, INSTALLED IN ACCOR–DANCE WITH THE MANUFACTURER'S INSTRUCTIONS FOR THE DECK MATERIAL, SHALL BE APPLIED OVER ALL JOINTS IN THE ROOF DECKING. AN APPROVED UNDERLAYMENT IN ACCORDANCE WITH TABLE R905.1.1.1 FOR THE APPLI–CABLE ROOF COVERING SHALL BE APPLIED OVER THE ENTIRE ROOF OVER THE 4–INCH–WIDE (102 MM) MEMBRANE STRIPS.
2. A MINIMUM 33/4–INCH WIDE (96 MM) STRIP OF SELF–ADHERING FLEXIBLE FLASHING TAPE COMPLYING WITH AAMA 711, LEVEL 3 [FOR EXPOSURE UP TO 176°F (80°C)], INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS FOR THE DECK MATERIAL, SHALL BE APPLIED OVER ALL JOINTS IN THE ROOF DECKING. AN APPROVED UNDERLAYMENT IN ACCORDANCE WITH TABLE R905.1.1.1 FOR THE APPLICABLE ROOF COVERING SHALL BE APPLIED OVER THE ENTIRE ROOF OVER THE 4–INCH–WIDE (102 MM) FLASHING STRIPS.
EXCEPTION: A SYNTHETIC UNDERLAYMENT THAT IS APPROVED AS AN ALTERNATIVE TO UNDERLAY–MENT COMPLYING WITH ASTM D226 TYPE II AND HAVING A MINIMUM TEAR STRENGTH OF 15 LBF IN ACCORDANCE WITH ASTM D4533 AND A MINIMUM TENSILE STRENGTH OF 20 LBF/INCH IN ACCORDANCE WITH ASTM D5035 SHALL BE PERMITTED TO BE APPLIED OVER THE ENTIRE ROOF OVER THE 4–INCH–WIDE (102 MM) FLASHING STRIPS. THIS UNDERLAYMENT SHALL BE INSTALLED AND ATTACHED IN ACCORDANCE WITH THE UNDER–LAYMENT ATTACHMENT METHODS OF TABLE R905.1.1.1 FOR THE APPLICABLE ROOF COVERING AND SLOPE AND THE UNDERLAYMENT MANUFAC–TURER'S INSTALLATION INSTRUCTIONS.
3. TWO LAYERS OF ASTM D226 TYPE II OR ASTM D4869 TYPE III OR TYPE IV UNDERLAYMENT SHALL BE INSTALLED AS FOLLOWS: APPLY A 19–INCH (483 MM) STRIP OF UNDERLAYMENT FELT PARALLEL TO AND STARTING AT THE EAVES, FASTENED SUFFICIENTLY TO HOLD IN PLACE. STARTING AT THE EAVE, APPLY 36–INCH–WIDE (914 MM) SHEETS OF UNDERLAYMENT, OVERLAPPING SUCCESSIVE SHEETS 19 INCHES (483 MM); END LAPS SHALL BE 6 INCHES AND SHALL BE OFFSET BY 6 FEET. THE UNDERLAYMENT SHALL BE ATTACHED TO A NAILABLE DECK WITH CORROSION–RESISTANT FASTENERS WITH ONE ROW CENTERED IN THE FIELD OF THE SHEET WITH A MAXIMUM FASTENER SPACING OF 12 INCHES (305 MM) O.C., AND ONE ROW AT THE END AND SIDE LAPS FASTENED 6 INCHES (152 MM) O.C. UNDERLAYMENT SHALL BE ATTACHED USING ANNULAR RING OR DEFORMED SHANK NAILS WITH METAL OR PLASTIC CAPS WITH A NOMINAL CAP DIAMETER OF NOT LESS THAN 1 INCH. METAL CAPS ARE REQUIRED WHERE THE ULTIMATE DESIGN WIND SPEED, V_{ULT}, EQUALS OR EXCEEDS 170 MPH. METAL CAPS SHALL HAVE A THICKNESS OF NOT LESS THAN 32–GAGE SHEET METAL. POWER–DRIVEN METAL CAPS SHALL HAVE A MINIMUM THICKNESS OF 0.010 INCH. MINIMUM THICKNESS OF THE OUTSIDE EDGE OF PLASTIC CAPS SHALL BE 0.035 INCH. THE CAP NAIL SHANK SHALL BE NOT LESS THAN 0.083 INCH FOR RING SHANK CAP NAILS AND 0.091 INCH FOR SMOOTH SHANK CAP NAILS. CAP NAIL SHANK SHALL HAVE A LENGTH SUFFICIENT TO PENETRATE THROUGH THE ROOF SHEATHING OR NOT LESS THAN 3/4 INCH INTO THE ROOF SHEATHING.

FBCR SECTION R905.1.1.1 UNDERLAYMENT FOR ASPHALT, METAL, MINERAL SURFACED, SLATE AND SLATE–TYPE ROOF COVERING

1. THE ENTIRE ROOF DECK SHALL BE COVERED WITH AN APPROVED SELF–ADHERING POLYMER–MODIFIED BITUMEN UNDERLAYMENT COMPLYING WITH ASTM D1970 INSTALLED IN ACCORDANCE WITH BOTH THE UNDERLAYMENT MANUFACTURER'S AND ROOF COVER–ING MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR THE DECK MATERIAL. ROOF VENTILATION CONFIGURA–TION AND CLIMATE EXPOSURE FOR THE ROOF COVERING TO BE INSTALLED.
EXCEPTION: AN EXISTING SELF–ADHERING MOD–IFIED BITUMEN UNDERLAYMENT THAT HAS BEEN PREVIOUSLY INSTALLED OVER THE ROOF DECKING AND WHERE IT IS REQUIRED, RENALING OFF THE ROOF SHEATHING IN ACCORDANCE WITH SECTION R908.7.1 CAN BE CONFIRMED OR VERIFIED. AN APPROVED UNDERLAYMENT IN ACCORDANCE WITH TABLE R905.1.1.1 FOR THE APPLICABLE ROOF COVERING SHALL BE APPLIED OVER THE ENTIRE ROOF OVER THE EXISTING SELF–ADHERED MOD–IFIED BITUMEN UNDERLAYMENT.
2. A MINIMUM 4–INCH–WIDE (102 MM) STRIP OF SELF–ADHERING POLYMER–MODIFIED BITUMEN MEMBRANE COMPLYING WITH ASTM D1970, INSTALLED IN ACCORDANCE WITH THE MANUFAC–TURER'S INSTRUCTIONS FOR THE DECK MATERIAL, SHALL BE APPLIED OVER ALL JOINTS IN THE ROOF DECKING. AN APPROVED UNDERLAYMENT IN ACCORDANCE WITH TABLE R905.1.1.1 FOR THE APPLICABLE ROOF COVERING SHALL BE APPLIED OVER THE ENTIRE ROOF OVER THE 4–INCH–WIDE (102 MM) MEMBRANE STRIPS.
EXCEPTION: A SYNTHETIC UNDERLAYMENT THAT IS APPROVED AS AN ALTERNATIVE TO UNDERLAY–MENT COMPLYING WITH ASTM D226 TYPE II AND HAVING A MINIMUM TEAR STRENGTH OF 15 LBF IN ACCORDANCE WITH ASTM D4533 AND A MINIMUM TENSILE STRENGTH OF 20 LBF/INCH IN ACCORDANCE WITH ASTM D5035 SHALL BE PERMITTED TO BE APPLIED OVER THE ENTIRE ROOF OVER THE 4–INCH–WIDE (102 MM) FLASHING STRIPS. THIS UNDERLAYMENT SHALL BE INSTALLED AND ATTACHED IN ACCORDANCE WITH THE UNDER–LAYMENT ATTACHMENT METHODS OF TABLE R905.1.1.1 FOR THE APPLICABLE ROOF COVERING AND SLOPE AND THE UNDERLAYMENT MANUFAC–TURER'S INSTALLATION INSTRUCTIONS.
3. A MINIMUM 33/4–INCH WIDE (96 MM) STRIP OF SELF–ADHERING FLEXIBLE FLASHING TAPE COMPLYING WITH AAMA 711, LEVEL 3 [FOR EXPOSURE UP TO 176°F (80°C)], INSTALLED IN ACCORDANCE WITH THE MANU–FACTURER'S INSTRUCTIONS FOR THE DECK MATERIAL, SHALL BE APPLIED OVER ALL JOINTS IN THE ROOF DECKING. AN UNDERLAYMENT COMPLYING WITH TABLE R905.1.1.1 FOR THE APPLICABLE ROOF COVERING SHALL BE APPLIED OVER THE ENTIRE ROOF OVER THE 4–INCH–WIDE (102 MM) FLASHING STRIPS.
4. TWO LAYERS OF ASTM D226 TYPE II OR ASTM D4869 TYPE III OR TYPE IV UNDERLAYMENT SHALL BE INSTALLED AS FOLLOWS: APPLY A 19–INCH (483 MM) STRIP OF UNDERLAYMENT FELT PARALLEL TO AND STARTING AT THE EAVES, FASTENED SUFFICIENTLY TO HOLD IN PLACE. STARTING AT THE EAVE, APPLY 36–INCH–WIDE (914 MM) SHEETS OF UNDERLAYMENT, OVERLAPPING SUCCESSIVE SHEETS 19 INCHES (483 MM); END LAPS SHALL BE 6 INCHES AND SHALL BE OFFSET BY 6 FEET. THE UNDERLAYMENT SHALL BE ATTACHED TO A NAILABLE DECK WITH CORROSION–RESISTANT FASTENERS WITH ONE ROW CENTERED IN THE FIELD OF THE SHEET WITH A MAXIMUM FASTENER SPACING OF 12 INCHES (305 MM) O.C., AND ONE ROW AT THE END AND SIDE LAPS FASTENED 6 INCHES (152 MM) O.C. UNDERLAYMENT SHALL BE ATTACHED USING ANNULAR RING OR DEFORMED SHANK NAILS WITH METAL OR PLASTIC CAPS WITH A NOMINAL CA