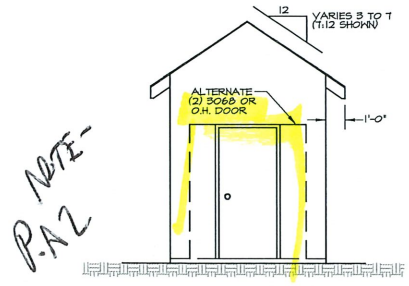
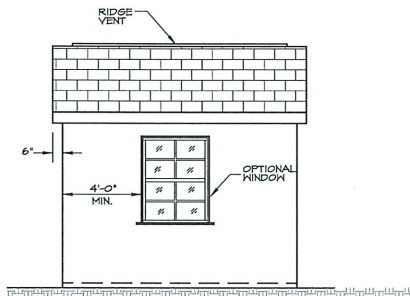


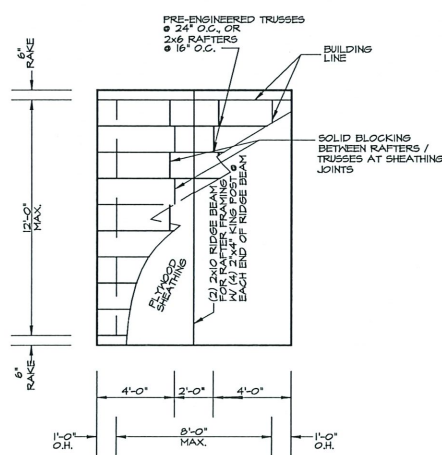
GABLE ROOF OPTION



FRONT VIEW  
SCALE 1/8" = 1'-0"

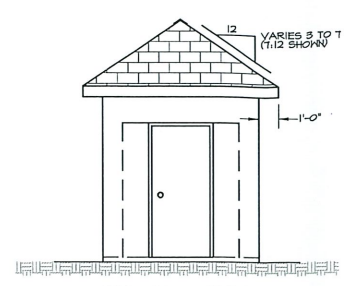


SIDE VIEW  
SCALE 1/8" = 1'-0"

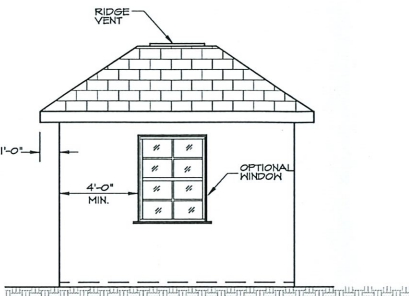


ROOF PLAN  
SCALE 1/8" = 1'-0"

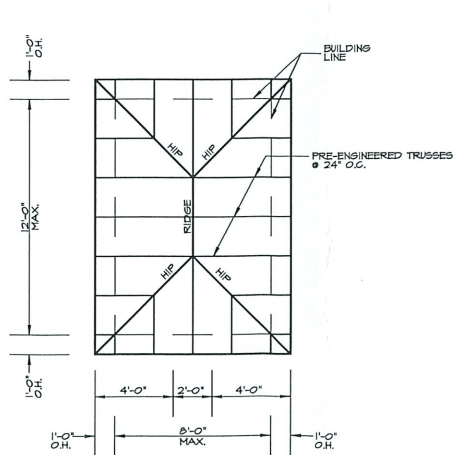
HIP ROOF OPTION



FRONT VIEW  
SCALE 1/8" = 1'-0"



SIDE VIEW  
SCALE 1/8" = 1'-0"



ROOF PLAN  
SCALE 1/8" = 1'-0"

DESIGN PARAMETERS:

**APPLICABLE CODES:**

- ☒ FLORIDA BUILDING CODE, 8TH EDITION (2023) RESIDENTIAL
- ☒ FLORIDA BUILDING CODE, 8TH EDITION (2023) MECHANICAL
- ☒ FLORIDA BUILDING CODE, 8TH EDITION (2023) PLUMBING
- ☒ FLORIDA BUILDING CODE, 8TH EDITION (2023) ENERGY CONSERVATION
- ☒ FLORIDA BUILDING CODE, 8TH EDITION (2023) ACCESSIBILITY
- ☒ FLORIDA BUILDING CODE, 8TH EDITION (2023) EXISTING BUILDING
- ☒ FLORIDA FIRE PREVENTION CODE (2023), 8TH EDITION
- ☒ 2017 NATIONAL ELECTRICAL CODE
- ☐ NATIONAL FIRE PROTECTION CODE, NFPA 101 (LIFE SAFETY)
- ☐ NATIONAL FIRE PROTECTION CODE, NFPA 13 (FIRE SPRINKLERS)
- ☐ NATIONAL FIRE PROTECTION CODE, NFPA 12

**BUILDING OCCUPANCY CLASSIFICATION:**

- ☐ GROUP A - ASSEMBLY
- ☐ GROUP B - BUSINESS
- ☐ GROUP D - DAY CARE CENTER
- ☐ GROUP E - EDUCATIONAL
- ☐ GROUP F - FACTORY INDUSTRIAL
- ☐ GROUP H - HAZARDOUS
- ☐ GROUP I - INSTITUTIONAL
- ☐ GROUP M - MERCANTILE
- ☐ GROUP R - RESIDENTIAL
- ☒ GROUP U - UTILITY & MISCELLANEOUS

**BUILDING CONSTRUCTION TYPE:**

- ☐ TYPE I-A
- ☐ TYPE I-B
- ☐ TYPE II-A
- ☐ TYPE II-B
- ☐ TYPE III-A
- ☐ TYPE III-B
- ☐ TYPE IV
- ☐ TYPE V-A
- ☐ TYPE V-B
- ☒ TYPE V-B

**RISK CATEGORY:**

- ☒ I
- ☐ II
- ☐ III
- ☐ IV

**WIND LOADS:**

WIND LOADS ARE BASED ON CH. 26 THRU 30 OF ASCE 7 (PER SEC. 1603.1.4 OF THE FBC, TORNADO LOADING IS NOT APPLICABLE FOR RISK CATEGORY I & II BUILDINGS OR OTHER STRUCTURES.)

**WIND SPEED:**

- ☒ 160 MPH=ULTIMATE DESIGN WIND SPEED (3-SECOND GUST)
- ☒ 124 MPH=NOMINAL DESIGN WIND SPEED (FASTEST MILE)

**SURFACE ROUGHNESS CATEGORY:**

- ☒ B
- ☐ C
- ☐ D

**EXPOSURE CATEGORY:**

- ☒ B
- ☒ C
- ☒ D

**WINDBORNE DEBRIS REGION:**

- ☐ NO
- ☒ YES

**IMPACT RESISTANT GLAZING:**

- ☐ IMPACT RESISTANT GLAZING
- ☐ IMPACT RESISTANT COVERING
- ☒ NOT APPLICABLE

**INTERNAL PRESSURE COEFFICIENTS:**

- ☐ 0.00 (OPEN)
- ☒ +0.18, -0.18 (ENCLOSED)
- ☐ +0.55, -0.55 (PARTIALLY ENCLOSED)

**GEOTECHNICAL INFO:**

(FOUNDATIONS ARE BASED ON A MINIMUM SOIL BEARING CAPACITY OF 2000 PSF)

WINDOW SCHEDULE

KEY	SIZE	TYPE	OPENING SIZE	MANUFACTURER	NO. OF JOINTS	ACTUAL APPLIED WIND PRESSURES	MANUF. MAX. DESIGN PRESSURES	IMPACT PROTECTION	INSTALLATION NOTES (LIST BELOW)	BUCK DETAIL	STATE OF FLORIDA PRODUCT APPROVAL MASTER NUMBERS
						+	-	TYPE OF OPENING PROTECTION (COVERING / GLAZING)			
(A)	VARIES	SH	VARIES	SEE STATE APPROVED LIST	4	44	-48	VARIES/VARIES	N/A	SEE USI	PROVIDED BY APPLICANT

DOOR SCHEDULE

KEY	SIZE	TYPE	OPENING SIZE	MANUFACTURER	AS SHOWN	APPLIED WIND PRESSURES		MANUF. MAX. DESIGN PRESSURES		PROTECTION TYPE OF OPENING PROTECTION (COVERING / GLAZING)	INSTALLATION NOTES (LIST BELOW)	BUCK DETAIL	STATE OF FLORIDA PRODUCT APPROVAL MASTER NUMBERS
						+	-	+	-				
(D)	3060	SHING	30' x 60'	SEE STATE APPROVED LIST	4	44	-48	VARIES	VARIES	N/A		SEE 2/SI	PROVIDED BY APPLICANT
(D)	(2) 3060	SHING	60' x 60'	SEE STATE APPROVED LIST	4	44	-48	VARIES	VARIES	N/A		SEE 2/SI	PROVIDED BY APPLICANT
(D)	VARIES	O.H. DR.	VARIES	SEE STATE APPROVED LIST	4	44	-48	VARIES	VARIES	N/A	5	SEE 2/SI	PROVIDED BY APPLICANT

ROOF COVERING MATERIAL

TYPE	MANUFACTURER	APPROVED MODEL, STYLE, OR DESIGNATION
ASPHALT SHINGLES OR METAL	SEE APPROVED LIST	SEE APPROVED LIST

CODE COMPLIANCE:  
1. ASPHALT SHINGLES SHALL BE IN COMPLIANCE W/ FBC 2023, SEC. 1507.2, & R405.2  
2. METAL ROOFING SHALL BE IN COMPLIANCE W/ FBC 2023, SEC. 1507.4 & R405.4

SOFFIT COVERING MATERIAL

TYPE	MANUFACTURER	APPROVED MODEL, STYLE, OR DESIGNATION
VARIES	SEE APPROVED LIST	SEE APPROVED LIST

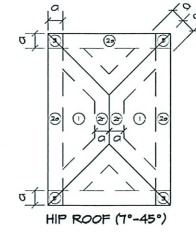
CODE COMPLIANCE:  
1. SOFFIT COVERING SHALL BE IN COMPLIANCE W/ FBC 2023, SEC. R301.1, & RT04.1

**INSTALLATION NOTES:**  
1. MEANS OF EGRESS  
2. TEMPERED WINDON  
3. O.H. GARAGE DOOR  
4. EGRESS PER FBC 1008.1.3.6, 1025.4, & R310.4

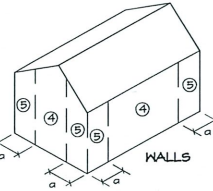
**LEGEND:**  
DX = DOOR DESIGNATION  
SLX = SKYLITE DESIGNATION  
MX = WINDOW DESIGNATION

**SIZE DESIGNATIONS:**  
W = WIDTH  
H = HEIGHT

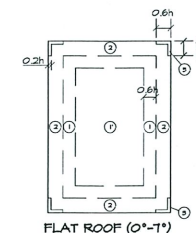
Q = 4' IN ALL CASES



HIP ROOF (12/12-45°)



GABLE ROOF (12/12-45°)



FLAT ROOF (0°-1°)

2023 FBC (8TH EDITION) COMPONENTS & CLADDING TABLES

HIP ROOF

ROOF SLOPE	ZONE	POSITIVE (+)	NEGATIVE (-)
12° - 20°	1	+17.8	-46.4
	2	+17.8	-54.4
	2a, 3	+17.8	-58.6
	1	+17.8	-52.8
21° - 27°	1	+17.8	-49.8
	2a, 2r, 3	+17.8	-45.8
	1	+17.1	-34.1
	2	+17.1	-37.0
28° - 45°	2r	+17.1	-48.8
	3	+17.1	-47.5
	4	+26.4	-28.7
	5	+26.4	-34.5
WALL	5	+26.4	-34.5

FBC 2023 (HIP)

2023 FBC (8TH EDITION) COMPONENTS & CLADDING TABLES

FLAT / GABLE ROOF

ROOF SLOPE	ZONE	POSITIVE (+)	NEGATIVE (-)
0° - 12°	1, 1g	+10.5	-34.1
	2	+10.5	-51.8
	3	+10.5	-66.5
	1, 2e	+17.8	-51.0
13° - 20°	2a, 2r, 3e	+17.8	-64.3
	3r	+17.8	-75.1
	1, 2e	+17.8	-34.3
	2a, 2r, 3e	+17.8	-55.0
21° - 27°	3r	+17.8	-62.8
	1, 2e, 2r	+22.5	-34.3
	2a, 3r	+22.5	-45.6
	3e	+22.5	-55.7
28° - 45°	4	+26.4	-28.7
	5	+26.4	-34.5
WALL	5	+26.4	-34.5

FBC 2023 (GABLE)

LEE COUNTY DEPARTMENT OF COMMUNITY DEVELOPMENT  
DIVISION OF CODES AND BUILDING SERVICES  
HURRICANE RESISTANT RESIDENTIAL CONSTRUCTION  
PURSUANT TO 2023 FLORIDA BUILDING CODE

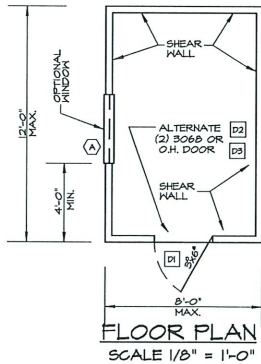
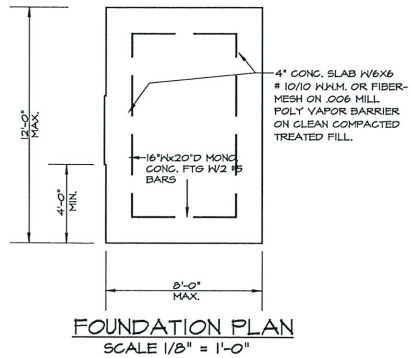
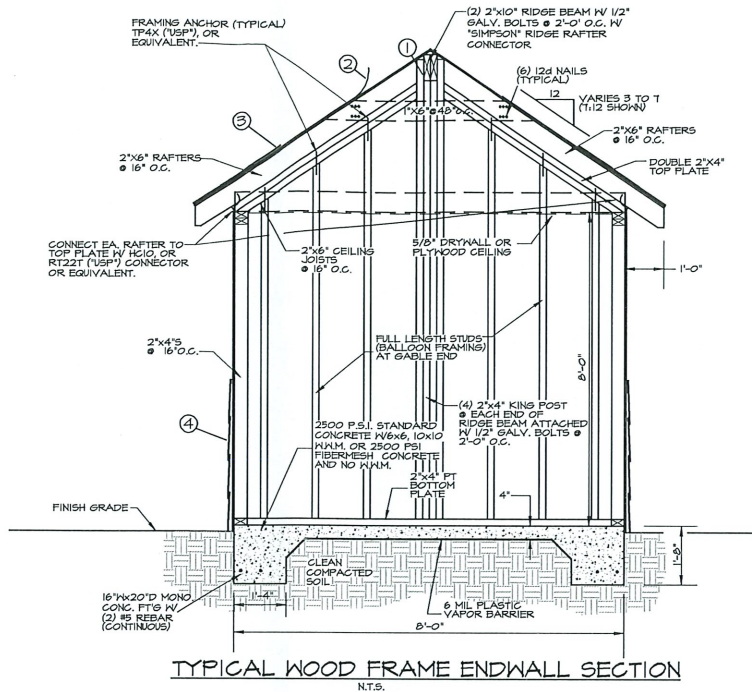
8' WIDE WOOD FRAME  
STORAGE BUILDING

SCALE:  
AS NOTED  
DATE:  
JANUARY 1, 2024  
SHEET  
A1

REVIEWED  
FOR CODE COMPLIANCE  
BY: DATE: 6/19/2024  
Reviewed by: DLA

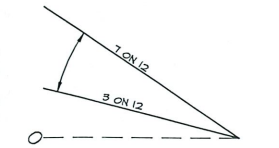


GENERAL NOTE:  
PRE-ENGINEERED ROOF TRUSSES REQUIRE NO COLLAR TIES.  
PRE-ENGINEERED ROOF TRUSSES WITH GABLE ROOFS REQUIRE BLOCKING.  
PRE-ENGINEERED ROOF TRUSSES WITH HIP ROOFS REQUIRE NO BLOCKING.  
GABLE ENDWALLS WITH RAFTERS MUST BE BALLOONED FRAMED W/ (4) 2"x4" KING POST @ EACH END OF RIDGE BEAM.  
GABLE ENDWALLS WITH TRUSSES MAY BE BALLOONED FRAMED OR PLATFORM FRAMED.  
HEADERS FOR 6'-8" HGT. OPENING SHALL BE (2) 2" X 12" W 1/2" FLITCH PLATE & CONTINUOUS TOP PLATE ABOVE.  
HEADERS FOR 1'-0" HGT. OPENING SHALL BE (2) 2" X 10" W 1/2" FLITCH PLATE & CONTINUOUS TOP PLATE ABOVE.  
UNLESS NOTED OTHERWISE, ALL WD. FRAME BEARING HEADERS ARE 2"x12" W/ 1/2" FLITCH PLATES.  
UNLESS NOTED OTHERWISE, ALL WD. FRAME BEARING HEADERS LESS THAN 6' IN LENGTH SHALL HAVE (2) FULL LENGTH JACKS & (2) HEADER JACKS AT EACH END.  
UNLESS NOTED OTHERWISE, ALL WD. FRAME BEARING HEADERS MORE THAN 6' IN LENGTH SHALL HAVE (3) FULL LENGTH JACKS & (2) HEADER JACKS AT EACH END.  
ALL WD. FRAME BEARING WALLS TO BE NO. 2, SYP, INCLUDING, BUT NOT LIMITED TO: STUDS, JACKS, & HEADERS.  
ATTACH ROOF TRUSSES TO WOOD FRAMED DOUBLE TOP PLATE W/ "SIMPSON" HIO-A CONNECTORS.  
TWO LAYERS OF WATER RESISTIVE BARRIER BEHIND EXTERIOR WALL COVERING, R103.1.3  
PROVIDE PAN FLASHING UNDER WINDOWS AND DOORS ON FRAME CONSTRUCTION. OPENINGS USING PAN FLASHING SHALL ALSO INCORPORATE FLASHING OR PROTECTION AT THE HEAD AND SIDES ALL EXTERIOR WD. FRAME BEARING WALLS.  
SELF-ADHERED MEMBRANES USED AS FLASHING SHALL COMPLY WITH AAMA 711.  
PROVIDE 2"x4" HORIZONTAL BLOCKING @ 4'-0" O.C. IN ALL WOOD FRAMED BEARING WALLS.  
PER SEC. R301.2.1.2 OF THE 2023 FLORIDA BUILDING CODE, STORAGE SHEDS THAT ARE NOT DESIGNED FOR HUMAN HABITATION AND HAVE A FLOOR AREA OF 120 SQFT. OR LESS AND ARE LOCATED IN EXPOSURE CATEGORY "B" ARE NOT REQUIRED TO COMPLY WITH THE MANDATORY WIND-BORNE DEBRIS IMPACT STANDARD OF THIS CODE.  
FOR EXPOSURE CATEGORIES "C" AND "D" IMPACT RESISTANT GLAZING MUST BE UTILIZED FOR ALL DOORS AND WINDOWS.  
PROVIDE A MINIMUM OF 2 LF OF WALL BETWEEN ALL DOORS AND WINDOWS AND CORNERS.



FEMA NOTE:  
WHEN BLDG. IS LOCATED WITHIN A FEMA FLOOD ZONE AREA, HYDROSTATIC VENTING IS REQ'D. HYDROSTATIC VENTING SHALL BE SO ARRANGED TO PERMIT THE AUTOMATIC PASSAGE OF STORMWATER. ALL VENTING SHALL BE LOCATED A MAXIMUM OF 1'-0" ABOVE F.F. 1 SQ. IN. OF VENTING SHALL BE REQ'D. FOR EA. SQ. FT. OF FLOOR AREA. VENTS REQUIRED ON AT LEAST 2 WALLS PER R322.2.2.1.

PLANS ARE NOT TO BE UTILIZED IN ANY FEMA "V" ZONE DESIGNATION.



- 5/8" CDX PLYWOOD
- (2) LAYERS OF 15# FELT PAPER OR SELF-ADHERING POLYMER MODIFIED BITUMINOUS SHEET MEETING ASTM 1910
- ASPHALT SHINGLES OR GALV. STL METAL ROOFING
- OPTIONAL STUCCO FINISH

Reviewed by:DLA



STORAGE BUILDING

GENERAL

1. This building/structure has been designed in accordance with the Eighth Edition of the 2023 Florida Building Codes, and Section 1609 for design pressures generated by a three second gust design wind velocity of 150 mph, (116 mph fastest mile wind velocity). Structural calculations, including gravity loads, as necessary to confirm compliance with the Eighth Edition of the 2023 Florida Building Code, have been performed.
2. The owner, his agent, or general contractor is responsible for field supervision, construction administration, review and approval of all shop drawings, verification on-site of all dimensions and elevations, and strict compliance with these construction documents as approved by Lee County.
3. These plans are intended to be mastered. The repetitive use of these plans for permitting is approved.
4. All windows, doors, and other such systems, components and cladding shall be designed in accordance with Section 1609 of the Eighth Edition of the 2023 Florida Building Code for design pressures generated by a three second gust design wind velocity of 150 mph, (116 mph fastest mile wind velocity), see "Design Parameters" for specific pressures.

FASTENERS & CONNECTORS

1. Approved connectors, anchors and other fastening devices not included in the Florida Building Code shall be installed in accordance with the manufacturer's recommendations.
2. Where fasteners are not otherwise specified fasteners shall be provided in accordance with Table 2304.9.1 of the Eighth Edition of the 2023 Florida Building Code. Nails, screws, or bolts shall be able to resist the forces in this Code.
3. Unless otherwise stated, sizes given for nails are common wire nails. For example, 8d = 2 1/2 inches long x 0.131-inch diameter. See Table 123B, columns 2, 3, and 4, in the National Design Specifications for Wood Construction. Metal plates, connectors, screws, bolts and nails exposed directly to the weather or subject to salt corrosion in coastal areas, as determined by the Building Official, shall be stainless steel, or hot dipped galvanized after the fastener or connector is fabricated to form a zinc coating not less than 1 oz per sq ft, or hot dipped galvanized with a minimum coating of 1.8 oz per sq ft of steel meeting the requirements of ASTM A 90 Triple Spot Test.

FOOTINGS AND FOUNDATIONS

GENERAL

1. All exterior walls, bearing walls, columns, and piers shall be supported on continuous concrete footings, piles, or other approved structural systems which shall be a sufficient design to support safely the loads imposed as determined from the character of the soil.
2. Refer to standard details for typical foundation details.
3. Fill shall be placed and compacted in one foot lifts.
4. Concrete shall have a minimum specified compressive strength of 3000 psi at 28 days.
5. Reinforcing Steel shall be minimum Grade 40 and identified in accordance with ASTM A 615, A 616, A 617, or A 706.
6. Metal Accessories: Joint reinforcement, anchors, ties, and wire fabric shall conform to the following standards:
1. ASTM 82 for joint reinforcement and wire anchors and ties.
2. ASTM 36 for plate, headed and bent bar anchors.
3. ASTM 366 for sheet metal anchors and ties.
7. Metal accessories for use in interior wall construction shall be mill galvanized in accordance with ASTM A 641, Class 1.
8. Minimum concrete cover over reinforcing bars shall be 3 inches. In narrow footings where insufficient which is available to accommodate a standard 90 degree hook and provide the required concrete cover, the hook shall be rotated in the horizontal direction until the required concrete cover is achieved.
9. Masonry Units shall be hollow or solid concrete units in accordance with ASTM C 90 or C 145 and shall have a minimum net area compressive strength of 1400 psi.
10. Mortar shall be either Type M or S in accordance with ASTM C 270.
11. Grout shall have a maximum coarse aggregate size of 3/8 inch placed at an 8 to 11 inch slump and have a minimum specified compressive strength of 2,000 psi at 28 days when tested in accordance with ASTM C 1019, or shall be in accordance with ASTM C 476.
12. All mortar joints for hollow unit masonry shall extend the full width of face shells. Mortar joints for solid masonry shall be full head and bed joints.
13. Bed joints shall be 3/8 inch (3/8 1/8 inch) thick. Head joints shall be 3/8 inch (+ 3/8 inch or - 1/4 inch) thick.
14. The bed joint of the running course placed over footings shall be permitted to vary in thickness from a minimum of 1/4 inch to a maximum of 3/4 inch.
15. Masonry walls shall be running bond or stack bond construction. Walls of stack bond construction, in addition to required vertical reinforcement, shall be provided with a minimum of 4 gage horizontal joint reinforcement placed in bed joints not more than 16 inches on center.
16. Longitudinal wires of joint reinforcement shall be fully embedded in mortar or grout with a minimum cover of 5/8 inch when exposed to earth or weather and 1/2 inch when not exposed to earth or weather.
17. Reinforcing bar used in masonry walls shall have a masonry cover (including grout) not less than 2 inches.
18. All concrete is to be mixed, transported, and placed in accordance with the latest ACI Specifications and Recommendations.
19. Foundations have been designed for an allowable soil bearing pressure of 2,000 PSF, and the existing soil being a granular material should poor soil conditions be found it is the contractor's responsibility to notify the engineer prior to commencing.
20. Provide granular fill, clay materials are unacceptable. Existing soil under footing and slabs shall be compacted to 95% of AASHTO T-99.
21. Provide (1) #5 electrical ground to foundation steel.
22. A 6 mil minimum polyethylene dampproofing vapor barrier shall be provided, per FBC R320.1.4, and R506.2.3.
23. Fill shall be termite treated and a "Certificate for Termite Treatment" is required on the permit board pursuant to FBC SEc. 105.10 and FBC R320.1.
24. All footings shall be a minimum of 12" below finished grade.
25. The top of slab shall be a minimum of 8" above finished grade for wood frame construction.
26. The top of slab shall be a minimum of 4" above finished grade for masonry veneer and a minimum of 6" elsewhere.

CONCRETE FLOORS

1. Concrete floors shall be cast in place.
2. Concrete shall have a minimum compressive strength of not less than 3,000 psi at 28 days.
3. The top of a monolithic slab-on-grade shall be at least 8 inches above finished grade.
4. The slab shall be 4 inches thick.
5. The slab shall have 6x6 No. 10 welded wire fabric at mid-height or synthetic fiber reinforcement.
6. A double layer of welded wire fabric shall be provided around the perimeter of the slab at a distance of 3 ft. from the edge. See Standard Details.

7. Welded wire fabric shall conform to ASTM A-185 and free of oil and rust. It shall be installed in lengths as long as possible lapped a minimum of six inches.

WOOD GENERAL

1. All wood construction shall comply with the latest NFPA and AITC Specifications and Recommendations.
2. Lumber standard shall be American Softwood Lumber Standard PS 20-TO, 54S, 19% moisture or as required by structural design.
3. Structural lumber (roof beams, headers, columns, exterior wall studs to be Southern Pine No. 2 KD 15 with a Fb=1,300 PSI E=1,600,000 PSI, and Fv = 95 PSI.
4. Glue laminated timber shall conform with ASTM D-3137 and AITC 117. Roof beams shall be designated 24F-VI or 24F-EI.
5. Plywood for sheathing shall be APA rated sheathing as per plans and shall bear the APA Mark.
6. Wood in contact with concrete, masonry and/or exposed to weather shall be protected or pressure treated in accordance with AITC-109.

EXTERIOR WALL FRAMING

1. Studs shall be placed with the wide face perpendicular to the wall.
2. Header Beams shall be provided and skied in accordance with Section R602.7. of the Eighth Edition of the 2023 Florida Building Code.
3. The minimum number of header studs supporting each end of a header beam shall be 2.
4. The minimum number of full-length wall studs at each end of a header beam shall be 2 for openings of 6 feet or less, and 3 feet for all other openings.
5. Uplift connectors shall be provided at the top and bottom of cripple studs, of header studs, and at least one wall stud at each side of opening.

CONNECTIONS FOR EXTERIOR WALL FRAMING

1. Framing members in exterior wall systems shall be fastened together in accordance with Section 2305 of the Eighth Edition of the 2023 Florida Building Code.
2. Uplift connectors shall be provided to resist the uplift loads.
3. Uplift load resistance shall be continuous from roof to foundation.
4. Studs shall be connected to plates and plates to floor framing with connectors designed, rated, and approved for each individual location and condition. See Windload Connectors Schedule.
5. Where Anchor down connectors occur connectors required for uplift resistance may be omitted.

EXTERIOR WALLS

1. Exterior wall segments shall not contain openings which when added together will exceed 144 sq in (1 sq ft) in any individual segment.
2. Each corner shall be sheated for a least 3 feet and may be counted as a shearwall segment.
3. Minimum length of a shearwall segment shall be 2'-5". The tops of all shearwall segments in any wall shall be connected by drag struts.
4. Studs shall be doubled at each end of each shearwall segment.
5. Joints shall be lap-spliced. Within the center third of a wall length, the minimum lap shall be 4 feet. Lap splices shall be connected with 14 16d common nails.
6. Provide bridging/blocking at mid-span of exterior wall studs.

PLYWOOD SHEATING USED FOR UPLIFT RESISTANCE

1. Panels shall be 15/32" exposure 1 C-D sheathing grade plywood and shall be installed as follows:

Panels shall be installed with face grain parallel to studs. All horizontal joints hall occur over framing and shall be attached per Detail Sheets. Flatwise blocking shall be used at all horizontal panel joints. Panels shall be attached to bottom plates and top member of the double top plate. Lowest plates shall be attached to foundation with bolts or connectors of sufficient capacity to resist the uplift forces developed in the plywood sheated walls. Panel attachment to framing shall be as illustrated in the Detail Sheets. Where windows and doors interrupt plywood sheating, framing anchors or connectors shall be used to resist the appropriate uplift loads.

ANCHOR DOWN CONNECTORS

1. Exterior walls require anchor downs to resist overturning moment.
2. Two studs and anchor down are required at each end of each shearwall segment.
3. The anchor down shall be fastened through the doubled studs and to the construction below in accordance with the manufacturer's recommendations. See Windload Connectors Schedule.

ROOF & TRUSSES  
TRUSS FRAMING SYSTEMS

1. Trusses shall be designed in accordance with TPI Design Specification for Metal Plate Connected Wood Trusses.
2. Parallel Chord Roof Trusses shall be in accordance with TPI Design Specifications for Metal Plate Connected Parallel Chord Wood Trusses.
3. Truss design submittals shall indicate design wind speed, height above ground, and amount of uplift at bearings.
4. Metal plate connected wood trusses shall be spaced no more than 24 inches on center and designed for live loads and Windloads for an enclosed building based on Sections 2304.4, R502.11.4., and R802.10.1, of the Eighth Edition of the 2023 Florida Building Codes.
5. Girder trusses shall be designed to function also as drag struts. Truss design submittals and erection instructions shall show both uplift and lateral connection load requirements at end of girder truss.
6. Top chords of trusses shall be of Group II species lumber.
7. Uplift connectors shall be provided at truss bearing to resist the uplift loads.
8. Where trusses are used to form a hipped roof, a step down hip system shall be used. See detail sheets.
9. Provide blocking at ends and mid-spans of roof trusses.
10. Roof trusses shall be pre-engineered and designed by a Florida Registered Engineer. Truss manufacturer shall provide shop drawings signed and sealed by a Florida Registered Engineer. Roof trusses shall be placed in accordance with the truss manufacturers drawings and specifications.

ROOF SHEATHING

1. Roof sheathing shall be 5/8 inch Exposure 1 C-D sheathing grade plywood (wood structural panels), or equivalent.
2. The sheathing shall be installed in accordance with Detail Sheets.
3. Long dimension shall be perpendicular to framing and end joints shall be staggered.
4. Sheathing shall be fastened to roof framing with 8d ring-shank nails at 6 inches on center at edges and 6 inches on center at intermediate framing. (pursuant to the Florida Building Code.)

Ring-shank nails shall have the following minimum dimensions:

- a. 0.113-inch nominal shank diameter
- b. Ring diameter of 0.012 over shank diameter
- c. 16-20 rings per inch
- d. 0.280 inch full round head diameter
- e. 2-inch nail length

Exceptions:

Where roof diaphragm requirements may necessitate a closer fastener spacing.

ASPHALT SHINGLE ROOF COVERING

1. Roof coverings shall be applied in accordance with the applicable provisions of FBC Sec. 1507 and the manufacturer's installation instructions.
2. The installation of asphalt shingles shall comply with the provisions of Fbc Sec. 1507.3.
3. Asphalt shingles shall be solidly sheathed decks.
4. Asphalt shingles shall be used only on roof slopes of 3:12 or greater. For roof slopes from 3:12 up to 4:12, double underlayment application is required in accordance with 1507.3.B.
5. Unless otherwise noted, required underlayment shall conform with ASTM D 226, type I, or ASTM D 4869, type I.
6. Self-adhering polymer modified bitumen sheet shall comply with ASTM 1970.
7. Asphalt shingles shall have self-seal strips or be interlocking, and comply with ASTM D 225 or ASTM D 3462.
8. Fasteners for asphalt shingles shall be galvanized, stainless steel, aluminum or copper roofing nails, minimum 12 gauge shank with a minimum 3/8 inch diameter head, of a length to penetrate through the roofing materials and a minimum of 3/4 inch into the roof sheathing. Where the roof sheathing is less than 3/4 inch thick, the nails shall penetrate through the sheathing.
9. Asphalt shingles shall be secured to the roof with not less than four fasteners per strip shingle or two fasteners per individual shingle.
10. For roof slopes from 3:12 up to 4:12, underlayment shall be a minimum of two layers applied as follows:
- a. Starting at the eave, a 19-inch strip of underlayment shall be applied parallel with the eave and fastened sufficiently to stay in place.
- b. Starting at the eave, 36-inch-wide strips of underlayment felt shall be applied overlapping successive sheets 19 inches and fastened sufficiently to stay in place.
11. For roof slopes 4:12 or greater, underlayment shall be a minimum of one layer of underlayment felt as follows: starting at the eave, underlayment shall be applied shingle fashion parallel to the eave, lapped 2 inches, and fastened sufficiently to stay in place.

CEILING DIAPHRAGMS

1. In those cases where a gable endwall is not build using full-height studs continuous from floor to roof (balloon framing) a ceiling diaphragm shall be used to resist the lateral loads at the horizontal joint between the top plate of a platform-framed endwall and the gable construction above.
2. Where there is no ceiling diaphragm at the height, such as a cathedral ceiling condition, the entire endwall, including the gable, must be constructed using full length studs from the floor to the roof deck (balloon framing), see detail sheets.
3. Where a gypsum wallboard ceiling is used to create the required diaphragm, the diaphragm length must be at least two times the width of the building.
4. The gypsum board must be a 5/8", pf 5/8 inch thick and must be fastened directly to the ceiling joists or bottom chords of trusses (no furring) with 5d cooler nails or GNB-54 1 1/2 inch nails at 7 inches on center.
5. Ceiling framing shall be braced with full depth blocking at 4 feet on center in the first four framing spaces from each end at top and bottom chords.
6. Lateral loads at the endwall top plate shall be resisted by connecting the top plate to a 2x ceiling nailer with 10d nails at 6 inches on center. See detail sheets.

EXTERIOR WALL VENEERS

1. Exterior wall veneers shall be installed in accordance with Section 1405 of the Eighth Edition of the 2023 Florida Building Code.
2. Application of stucco (portland cement plaster) shall be in accordance with ASTM C 926, Application of Portland Cement Based Plaster. Shall be in accordance with 2023 Florida Building Code, sec. RT03.7.

TYPICAL WINDLOAD CONNECTORS AND FASTENINGS SCHEDULE				
	MANUFACTURER		DESCRIPTION	FASTENERS
	USP	SIMPSON		
1	DTC	HETAL20	EMBEDDED TRUSS/RAFTER ANCHOR W/ SEAT PLATE	(14) 0.148 X 1-1/2"
2	TA22	HETA20	EMBEDDED TRUSS/RAFTER ANCHOR	(10) 10d X 1-1/2"
3	SPTH4	SPH4	TOP/BOTT. PLATE ANCHORS	(10) 10d
4	RT16A	H10A	HURRICANE CLIP	(4) 10d - (8) 10d
5	MTX24G	HTS24	WOOD TO WOOD CONNECTION TWIST STRAP	(14) 10d
6	TDX2-TZ	HPBB	ANCHOR DOWN	(2) 3/4"MB - (1) 3/4" AB
7	MSTA24	MSTA24	TRUSS/RAFTER TIES	(18) 10d
8	SHA6	N/A	MAS. UPLIFT CONNECTOR	(2) 3/4"MB - (4) 1/2"AB
9	HTX20	HTS20	TRUSS ANCHOR, HIGH UPLIFT	(24) 10d X 1-1/2"
10	RT16-2	H10A-2	HURRICANE CLIP (2-PLY)	(24) 10d X 1-1/2"
11	TDX5	-	ANCHOR DOWN	(2) 3/4" MB - (1) 3/4" AB
12	PA2B	PA2B	FURLIN ANCHOR	(18) 16d

Reviewed by:DLA

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LEE COUNTY DEPARTMENT OF COMMUNITY DEVELOPMENT  
DIVISION OF CODES AND BUILDING SERVICES  
HURRICANE RESISTANT RESIDENTIAL CONSTRUCTION  
PURSUANT TO 2023 FLORIDA BUILDING CODE

8' WIDE WOOD FRAME  
STORAGE BUILDING

SCALE:

AS NOTED

DATE:

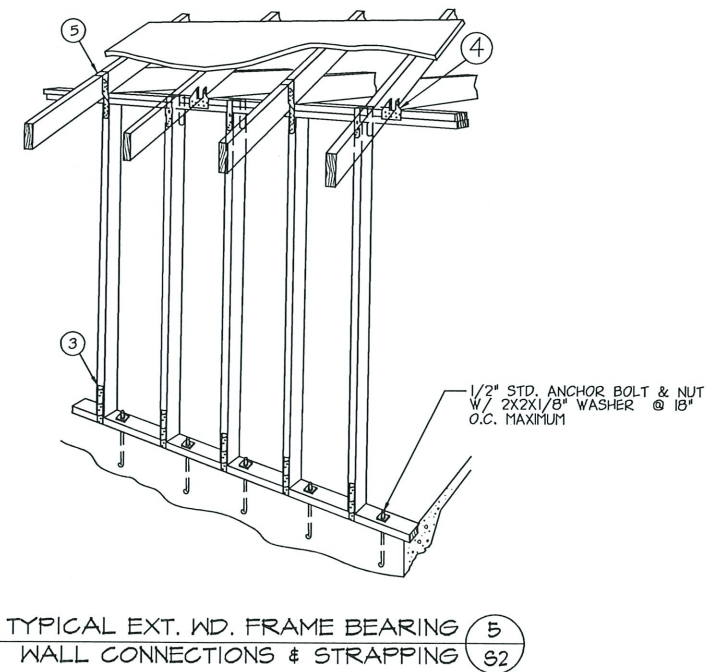
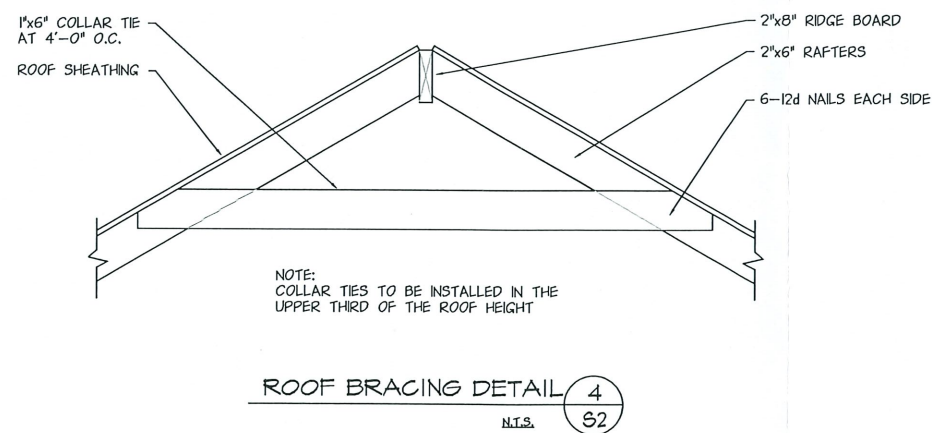
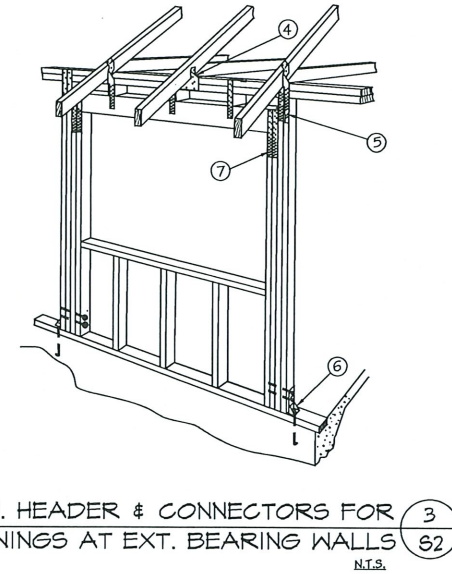
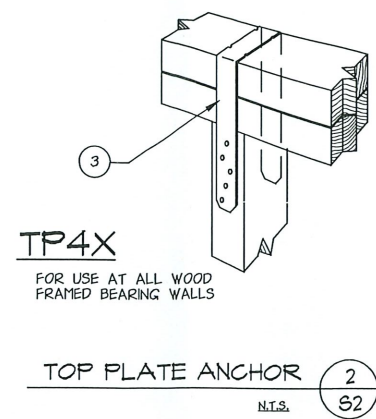
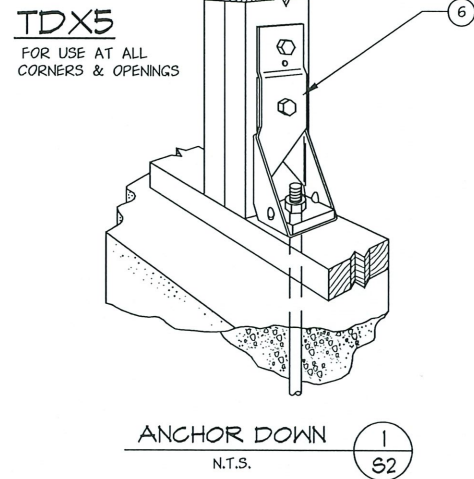
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LEE COUNTY DEPARTMENT OF COMMUNITY DEVELOPMENT  
DIVISION OF CODES AND BUILDING SERVICES  
HURRICANE RESISTANT RESIDENTIAL CONSTRUCTION  
PURSUANT TO 2023 FLORIDA BUILDING CODE

**8' WIDE WOOD FRAME  
STORAGE BUILDING**

SCALE:  
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JANUARY 1, 2024  
SHEET

**S2**

LC24-05

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