## **TERMITE SPECIFICATIONS:**

- 1. A PERMANENT SIGN WHICH IDENTIFIES THE TERMITE TREATMENT PROVIDER AND NEED FOR RE-INSPECTION AND TREATMENT CONTRACT RENEWAL SHALL BE PROVIDED. THE SIGN SHALL BE POSTED NEAR THE WATER HEATER OR ELECTRIC PANEL.(FBC 104.2.6)
- 2. CONDENSATE AND ROOF DOWNSPOUTS SHALL DISCHARGE AT LEAST 1'-0" AWAY FROM BUILDING SIDE WALKS.(FBC 1503.4.4)
- 3. IRRIGATION/SPRINKLER SYSTEMS INCLUDING ALL RISERS AND SPRAY HEADS SHALL NOT BE INSTALLED WITHIN 1'-0" OF THE BUILDING SIDE WALLS.(FBC 1503.4.4)
- 4. TO PROVIDE FOR INSPECTION FOR TERMITE INFESTATION, BETWEEN WALL COVERING AND FINAL EARTH GRADE SHALL NOT BE LESS THAT 6 INCHES.
- EXCEPTION: PAINT OR DECORATIVE CEMENTATIOUS FINISH LESS THAN 5/8" THICK ADHERED DIRECTLY TO THE FOUNDATION WALL.(FBC 1403.1.6)
- 5. INITIAL TREATMENT SHALL BE DONE AFTER ALL EXCAVATION AND BACKFILL IS COMPLETE.(FBC 1816.1.1)
- 6. SOIL DISTURBED AFTER THE INITIAL TREATMENT SHALL BE RETREATED INCLUDING SPACES BOXED AND FORMED.(FBC 1816.1.2)
- 7. BOXED AREAS IN CONCRETE FLOORS FOR SUBSEQUENT INSTALLATION OF TRAPS, ETC., SHALL BE MADE WITH PERMANENT METAL OR PLASTIC FORMS. PERMANENT FORMS MUST BE OF A SIZE AND DEPTH THAT WILL ELIMINATE THE DISTURBANCE OF SOIL AFTER THE INITIAL TREATMENT.(FBC 1816.1.3)
- 8. MINIMUM 6 MIL VAPOR RETARDER MUST BE INSTALLED TO PROTECT AGAINST RAINFALL DILUTION. IF RAINFALL OCCURS BEFORE VAPOR RETARDER PLACEMENT, RETREATMENT IS REQUIRED.(FBC 1816.1.4)
- 9. CONCRETE OVERPOUR AND MORTAR ALONG THE FOUNDATION PERIMETER MUST BE REMOVED BEFORE EXTERIOR SOIL TREATMENT.(FBC 1816.1.5)
- 10. SOIL TREATMENT MUST BE APPLIED UNDER ALL EXTERIOR CONCRETE OR GRADE WITHIN 1'-0" OF THE STRUCTURE SIDEWALLS.(FBC 1816.1.6)
- 11. AN EXTERIOR VERTICAL CHEMICAL BARRIER MUST BE INSTALLED AFTER CONSTRUCTION IS COMPLETE INCLUDING LANDSCAPING AND IRRIGATION. ANY SOIL DISTURBED AFTER THE VERTICAL BARRIER IS APPLIED, SHALL BE RETREATED.(FBC 1816.1.6)
- 12. ALL BUILDINGS ARE REQUIRED TO HAVE PRE-CONSTRUCTION TREATMENT.(FBC 1816.1.7)
- 13. A CERTIFICATE OF COMPLIANCE MUST BE ISSUED TO THE BUILDING DEPARTMENT BY A LICENSED PEST CONTROL COMPANY BEFORE A CERTIFICATE OF OCCUPANCY WILL BE ISSUED. THE CERTIFICATE OF COMPLIANCE SHALL STATE: "THE BUILDING HAS RECEIVED A COMPLETE TREATMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES. THE TREATMENT IS IN ACCORDANCE WITH THE RULES AND LAWS OF THE FLORIDA DEPARMENT OF AGRICULTURE AND CONSUMER SERVICES."(FBC 1816.1.7)
- 14. AFTER ALL WORK IS COMPLETED, LOOSE WOOD AND FILL MUST BE REMOVED FROM BELOW AND WITHIN 1'-0" OF THE BUILDING. THIS INCLUDES ALL GRADE STAKES, TUB TRAY BOXES, FORMS, SHORING OR OTHER CELLULOSE CONTAINING MATERIAL. (FBC 2303.1.3)
- 15. NO WOOD, VEGETATION, STUMPS, CARDBOARD, TRASH, ETC., SHALL BE BURIED WITHIN 15'-0": OF ANY BUILDING OR PROPOSED BUILDING.(FBC 2303.1.4)

	Abv. A/C Adj. A.F.F. A.H.U. ALT. B.C. B.F. Bk Sh Bm. BOT. B.P. Brg. Cir. Clg. Col.	Beam Bottom Bypass door Bearing Circle Ceiling Column A/C Compressor Ceramic Tile Dryer Decorative Dedicated Outlet Double Diameter Disposal Distance Drawer Stack Dryer Vent Dishwasher Each Each Way Electrical Elevation	F.B.C. Fin. Flr. F.G. Flr. Fdn. Flr. Sys. F.Pl. Ft. Ftg. G.C. G.F.I. G.T. Hdr. Hgt. HB Int. K/Wall K.S. Laun. L.F. L.T. Mas. Max M.C. Micro. Min M.L. Mir. Mono N.T.S.	Florida Bldg. Code Finished Floor Fixed Glass Floor Foundation Floor System Fireplace Foot / Feet Footing Fixed Galvanized General Contractor Ground Fault Interrupte Girder Truss Header Height Hose Bibb Interior Kneewall Knee Space Laundry Lavatory Linear Ft. Laundry Tub Masonry Maximum Medicine Cabinet Master Distribution Pan Manufacturer Microwave Minimum Microlam Mirror Monolithic Not to Scale
1			1	

Opn'g. Opt. Pc. Ped. P.L. Plf Plt. Ht. Plt Sh. PSF P.T. Pwd. Rad. Ref. Req'd. Rm. Rnd. R/SH SD. S.F. Sh. SHT S.L. S.P.F. Sq. S.Y.P. Temp. Thik'n. T.O.M. T.O.P. Trans. Typ. UCL U.N.O. VB Vert.	Opening Optional Piece Pedestal Parallam Pounds per linear foot Plate Height Plant Shelf Pounds per square foot Pressure Treated Powder Room Radius Refrigerator Required Room Round Rod and Shelf Smoke Detector Square Ft. Shelves Sheet Side Lights Spruce Pine Fir Square Southern Yellow Pine Tempered Thicken Top of Block Top of Masonry Top of Plate Transom Window Typical Under Cabinet Lighting Unless Noted Otherwise Vanity Base Vertical

Versalam

Washer With

Wood Water Proof

Water Closet

Wedge Anchor

PROJECT LOCATION

16430 N. US Hwy 441

Vent through Roof

VTR

W/C

W.A.

Wd WP

## STRUCTURAL NOTES:

#### **FOUNDATIONS**

SOIL TO BE COMPACTED TO AT LEAST 95% OF MAX. DRY DENSITY AS DETERMINED BY ASTM - 1557 ( MODIFIED PROCTOR )

#### FOUNDATION INSPECTIONS

A FOUNDATION SURVEY SHALL BE PERFORMED AND A COPY OF THE SURVEY SHALL BE ON SITE FOR THE BUILDING FOREST PRODUCTS ASSOCIATION. INSPECTORS USE, OR ALL PROPERTY MARKERS SHALL BE 3. TRUSS MEMBERS AND CONNECTIONS SHALL BE PROPOR-EXPOSED AND A STRING STRECHED FROM MARKER TO MARKER TO VERIFY REQUIRED SETBACKS.

#### CAST IN PLACE CONCRETE

- 1. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 3,000 PSI, A SLUMP OF 6" PLUS OR MINUS 1", AND HAVE 2 TO 5% AIR ENTRAINMENT, AND A MAXIMUM WATER/CEMENT RATIO OF 0.63 2. ALL REINFORCING STEEL SHALL BE NEW DOMESTIC DEFORMED BILLET STEEL CONFORMING TO ASTM A-615
- GRADE 60. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185. WWF SHALL BE LAPPED AT LEAST 6" AND CONTAIN AT LEAST ONE CROSS WIRE WITHIN THE 6".
- 4. HOOKS SHALL BE PROVIDED AT DISCONTINUOUS ENDS OF ALL TOP BARS OF BEAMS.
- 5. HORIZONTAL FOOTING BARS SHALL BE BENT 1'-0" AROUND CORNERS OR CORNER BARS WITH A 2'-0" LAP PROVIDED 6. MINIMUM LAP SPLICES ON ALL REINFORCING BAR
- SPLICES SHALL BE 40 BAR DIAMETERS TYP.
- 7. CONCRETE COVER MIN. 3" WHEN EXPOSED TO EARTH OR 1 1/2" TO FORM

### MASONRY WALL CONST.

- 1. HOLLOW LOAD BEARING UNITS SHALL BE NORMAL WEIGHT, GRADE N, TYPE 2, CONFORMING TO ASTM C90, WITH A MINIMUM NET COMPRESSIVE STRENGTH OF 1900 PSI (fm = 1350 PSI)
- 2. MORTAR SHALL BE TYPE "M" OR "S", CONFORMING TO ASTM C270.
- 3. COARSE GROUT SHALL CONFORM TO ASTM C476 WITH A MAXIMUM AGGREGATE SIZE OF 3/8" AND A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI SLUMP 8" TO 11".
- 4. VERTICAL REINFORCEMENT SHALL BE AS NOTED ON THE DRAWINGS WITH THE CELLS FILLED WITH COARSE GROUT. 5. VERTICAL REINFORCEMENT SHALL BE HELD IN POSITION AT THE TOP AND BOTTOM AND AT A MAXIMUM SPACING OF 192 BAR DIAMETERS. REINFORCEMENT SHALL BE PLACED

IN THE CENTER OF THE MASONRY CELL TYPICAL UNLESS

- OTHERWISE NOTED. 6. REINFORCING STEEL SHALL BE LAPPED A MINIMUM OF 40 BAR DIAMETERS, UNLESS OTHERWISE NOTED ON THE DRAWINGS
- . GROUT STOPS SHALL BE PROVIDED BELOW BOND BEAM. PLASTIC SCREEN, METAL LATH STRIP OR CAVITY CAPS MAY BE USED TO

## WOOD CONSTRUCTION

PAPER AS A STOP IS PROHIBITED.

- 1. WOOD CONSTRUCTION SHALL CONFORM TO THE NFPA "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION". LATEST EDITION.
- 2. ALL EXTERIOR WOOD STUD WALLS, BEARING WALLS, SHEAR WALLS AND MISC. STRUCTURAL WOOD FRAMING MEMBERS, ( I.E. BLOCKING OR GABLE END BRACING ) SHALL BE EITHER SOUTHERN PINE, OR S.P.F. NUMBER 2 GRADE SHALL BE USED REGARDLESS OF SPECIES.
- 3. ANY WOOD FRAME INTERIOR BEARING WALL STUDS THAT HAVE HOLES IN THE CENTER OF THE STUD UP TO 1" DIA. SHALL HAVE STUD PROTECTION SHIELDS FOR ALL HOLES OVER 1" IN DIA.

## WOOD FRAMING INSPECTION

SIMPSON HSS2 STUD SHOES, TYP., U.N.O.

FOR PLUMBING LINES, ETC. SHALL BE REPAIRED WITH

ALL PLUMBING, ELECTRICAL, AND MECHANICAL ROUGH-INS MUST BE COMPLETE, INSPECTED AND APPROVED BEFORE REQUESTING FRAMING INSPECTION.

# PREFABRICATED WOOD TRUSSES

- 1. ALL PREFABRICATED WOOD TRUSSES SHALL BE SECURELY FASTENED TO THEIR SUPPORTING WALLS OR BEAMS WITH HURRICANE CLIPS OR ANCHORS.
- 2. PREFABRICATED WOOD TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF THE "NATIONAL DESIGN SPECIFICATION FOR STRESS-GRADE LUMBER AND ITS FASTENERS" AS RECOMMENDED BY THE NATIONAL
- TIONED ( WITH A MAXIMUM ALLOWABLE STRESS INCREASE FOR LOAD DURATION OF 25%) TO WITHSTAND THE LIVE LOADS GIVEN IN THE NOTES AND TOTAL DEAD LOAD. 4. BRIDGING FOR PRE-ENGINEERED TRUSSES SHALL BE AS REQUIRED BY THE TRUSS MANUFACTURER UNLESS
- NOTED ON THE PLANS. 5. TRUSS ELEVATIONS AND SECTIONS ARE FOR GENERAL CONFIGURATION OF TRUSSES ONLY. WEB MEMBERS ARE NOT SHOWN, BUT SHALL BE DESIGNED BY THE TRUSS

MANUFACTURER IN ACCORDANCE WITH THE FOLLOWING

- **DESIGN LOADS:** 6. DESIGN SPECIFICATIONS FOR LIGHT WEIGHT METAL PLATE CONNECTED WOOD TRUSSES PER THE TRUSS PLATE INSTITUTE TPI LATEST EDITION.
- 7. PRE-ENGINEERED WOOD TRUSSES SHALL BE DESIGNED BY THE MANUFACTURER IN ACCORDANCE WITH SPECIFIED LOADS AND GOVERNING CODES . SUBMITTALS SHALL INCLUDE TRUSS FRAMING PLANS AND DETAILS SHOWING MEMBER SIZES. BRACING, ANCHORAGE, CONNECTIONS, TRUSS LOCATIONS, AND AND PERMANENT BRACING AND/OR BRIDGING AS REQUIRED FOR ERECTION AND FOR THE PERMANENT STRUCTURE, EACH SUBMITTAL SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED STRUCTURAL ENGINEER. SUBMIT 3 COPIES FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
- 8. THE TRUSS MANUFACTURER SHALL DETERMINE ALL SPANS WORKING POINTS, BEARING POINTS, AND SIMILAR CONDITIONS. TRUSS SHOP DRAWINGS SHALL SHOW ALL TRUSSES, ALL BRACING MEMBERS, AND ALL TRUSS TO TRUSS HANGERS.

#### **UPLIFT CONNECTORS**

1. UPLIFT CONNECTORS SUCH AS HURRICANE CLIPS, TRUSS ANCHORS AND ANCHOR BOLTS ARE ONLY REQUIRED ON MEMBERS IN WALLS THAT ARE EXPOSED TO UPLIFT FORCES. INTERIOR LOAD BEARING WALLS ARE NOT ALWAYS EXPOSED TO UPLIFT FORCES. THE MEMBERS OF THESE WALLS WOULD NOT NEED TO HAVE CONNECTORS APPLIED. PLEASE CONSULT THE TRUSS ENGINEERING FOR THE LOCATION OF THESE WALLS

### FIELD REPAIR NOTES

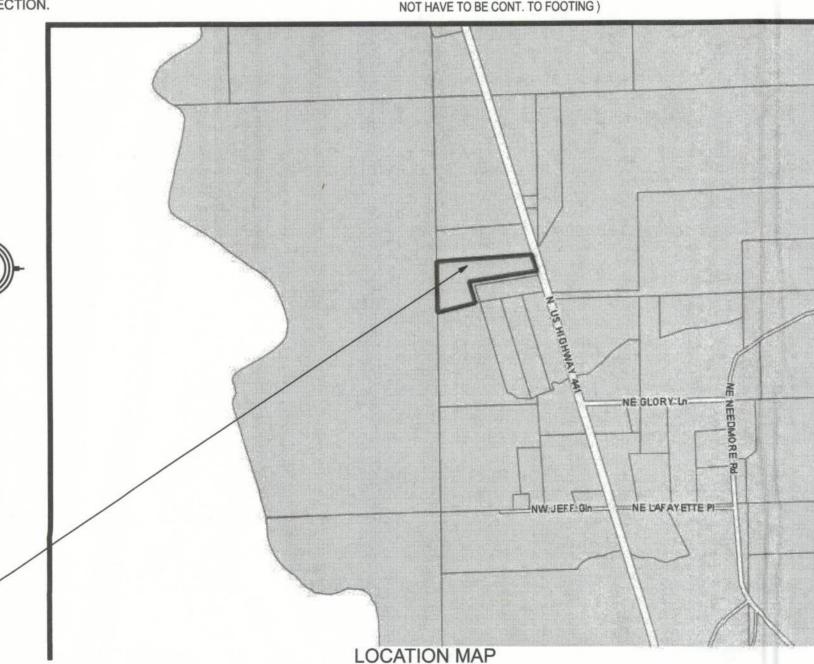
1. MISSED LINTEL STRAPS FOR MASONRY CONSTRUCTION MAY BE SUBSTITUTED W/ (1) "SIMPSON MTSM16 TWIST STRAP W/ (4) 1/4" X 2 1/4" DIA. TITENS TO THE BOND BEAM BLOCK AND (7) 10d TO THE TRUSS FOR UPLIFTS OF 1000 LBS. OR LESS. USE (2) FOR 2000 LBS. OR LESS. OTHERS MAY BE SUBSTITUTED ON A CASE BY CASE BASIS. PREVENT THE FLOW GROUT INTO CELLS BELOW. THE USE OF FELT 2. MISSED "J" BOLTS FOR WOOD BEARING WALLS MAY BE SUB-STITUTED W/ 1/2" DIA. ANCHOR BOLTS SET IN 3/4" DIA. X 6" DEEP UNITEX "PROPOXY" 300 ADHESIVE BINDER: FOLLOWING

ALL MANUFACTURERS RECOMMENDATIONS (OR 1/2" X 6"

3. REGARDING MISSED REBAR IN VERTICAL FILLED CELLS. DRILL A 3/4" DIAMETER HOLE 6" DEEP AT THE LOCATION OF THE OMITTED REBAR, AND INSTALL A 32" LONG #5 BAR INTO THE EPOXY FILLED HOLE. USE A TWO PART EMBEDDEMENT EPOXY ( SIMPSON "EPOXY TIE SET", OR HILTI " 2 PART" EMBEDDMENT EPOXY ), MIXED PER MANUFACTURER'S NSTRUCTIONS. ASSURE THAT ALL DUST AND DEBRIS FROM DRILLING ARE REMOVED FROM THE HOLE BY BRUSHING AND AND USING COMPRESSED AIR PRIOR TO APPLYING THE EPOXY. ALLOW THE EPOXY TO CURE TO MANUFACTURER'S SPECIFICATIONS, THEN FILL THE CELL IN THE NORMAL WAY DURING BOND BEAIM

RAWL STUD EXPANSION ANCHORS.)

- 4. HURRICANE STRAPS MAY BE SUBSTITUTED WITH A STRAP OF GREATER HOLDOWN VALUE OR GREATER UPLIFT VALUE IN THE FIELD WITHOUT VERIFICATION, PROVIDED ALL MANUFACTURERS INSTALLATION INSTRUCTIONS ARE FOLLOWED.
- FOR MORTER JOINTS LESS THAN 1/4", PROVIDE (1) #5 VERT. IN CONC. FILLED CELL EACH SIDE OF THE JOINT (BAR DOES



## STRUCTURAL DESIGN CRITERIA

FLORIDA BUILDING CODE, 2023 CODES: BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-19) SPECIFICATIONS FOR STRUCTURAL CONCRETE BUILDINGS (ACI 301-19) BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530-19)

NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, 2015 EDITION APA PLYWOOD DESIGN SPECIFICATION

20 PSF (REDUCIBLE) LIVE LOADS: RESIDENTIAL FLOOR, UNLESS OTHERWISE INDICATED 40 PSF BALCONIES 40 PSF 40 PSF 20 PSF LIGHT PARTITIONS (DEAD LOAD), U.N.O.

ALL CONCRETE UNLESS OTHERWISE INDICATED 3000 PSI CONCRETE PEA GRAVEL CONCRETE FOR MASONRY CELLS ONLY 3000 PSI STRENGTH

(DO NOT USE FOR CONCRETE COLUMNS OR TIE BEAMS)

WIND LOADS BASED ON FBC, SECTION 1609

WIND VELOCITY: 125 M.P.H., USE FACTOR: 1.0

WIND LOADS:

@ 28 DAYS

UNITS:

VALUE:

(F.B.C.)

ASTM A185 WELDED WIRE FABRIC SHALL CONFORM TO REINFORCING: ASTM A615-40 40,000 PSI ALL REINFORCING BARS ALL STIRRUPS AND TIES ASTM A615-40 40,000 PSI

CONCRETE ASTM C90-99b, STANDARD WEIGHT UNITS, fm=1500 PSI MORTAR TYPE "S" 1800 PSI MASONRY

CONCRETE GROUT 3000 PSI CONTINUOUS MASONRY INSPECTION IS REQUIRED DURING CONSTRUCTION

ALL STRUCTURAL AND MISCELLANEOUS STEEL A36 36,000 PSI, U.N.O. STRUCTURAL SHOP AND FIELD WELDS: E70XX ELECTRODES

STEEL: ALL BOLTS CAST IN CONCRETE: ASTM A36 OR ASTM A-307

BEAMS, RAFTERS, JOIST, PLATES, ETC. U.N.O. WOOD FRAMING: NO. 2 SOUTHERN YELLOW PINE (19% M.C.) ROOF DECK: PLYWOOD C-C/C-D. EXTERIOR, or OSB FLOOR SHEATHING: T&G A-C GROUP 1 APA RATED (48/24) WALL SHEATHING: PLYWOOD C-C/C-D, EXTERIOR OR OSB

VERSA LAM BEAM Fb = 2900 PSI (2.0E) WOOD COLS. PARALLAM 2.0E U.N.O.

**DESIGN LOADS: WOOD ROOF** 20 PSF TOP CHORD LIVE TRUSSES: 7 PSF TOP CHORD DEAD LOAD: 10 PSF **BOTTOM CHORD DEAD LOAD:** 

> SEE DRAWINGS FOR SPECIAL CONCENTRATED LOADS, DESIGN FOR NEW WIND UPLIFT AS PER SPECIFIED CODES, DEDUCTING A MAXIMUM OF 5 P.S.F. DEAD LOAD, BUT NOT EXCEEDING ACTUAL DEAD LOAD.

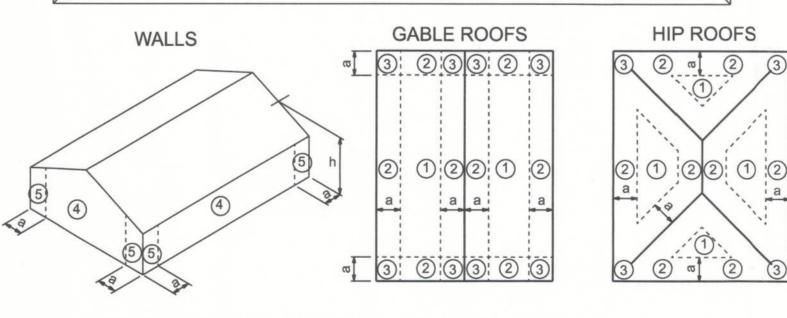
**DESIGN LOADS:** WOOD FLOOR 15 PSF DEAD LOAD: TRUSSES: 40 PSF LIVE LOAD:

55 PSF TOTAL: ASSUMED ALLOWABLE SOIL BEARING PRESSURE AFTER COMPACTION: 2,000 PSF **SOIL BEARING** 

SEE SOILS REPORT AND SPECIFICATIONS FOR COMPACTION REQUIREMENTS IF SOIL CONDITIONS IN THE PROJECT DO NOT MEET OR EXCEED THE CAPACITY THE GENERAL CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO FOUNDATION POUR FOR VERIFICATION OF FOUNDATION DESIGN.

37 PSF

BASIC WIND SPEED	125 MPH									
IMPORTANCE FACTOR	1.00									
BUILDING CATEGORY	× II									
EXPOSURE	С									
INTERNAL PRESSURE COEFFICIENT	+/- 0.18									
TYPE OF STRUCTURE		ENCLOSED				)				
MWFRS PER ASCE 7-22 DESIGN WIND PRESSURES WORST CASE	Zone	Zone 1 - Windward Wall						+26.5 psf		
	Zone 2 and 3 - Windward and Leeward Roof					Roof	-29.1 psf			
	Zone	Zone 2 - Sloped Windward Roof						-29.1 psf		
	Zone									
	3 - Leeward Roof							-29.1 psf		
	4 - Leeward Wall							-18.6 psf		
		5 & 6 Sidewalls						-23.9 psf		
	Zone 7 - Overhang						+20.9 psf			
COMPONENTS AND CLADDING PER ASCE 7-22 DESIGN WIND PRESSURES WORST CASE (PSF)	Roof		1	0 sf	20	0 sf	50	sf	100	sf
			pos.	neg.	pos.	neg.	pos.	neg.	pos.	neg
	11001	Zone 1	18.06	-28.70	16.50	-27.88	14.34	-26.84	12.78	-30.1
		Zone 2	18.06	-49.96	16.50	-53.12	14.34	-46.96	12.78	-44.2
		Zone 3	18.06	-73.9	16.50	-69.14	14.34	-62.74	12.78	-66.8
	Wall	Zone 4	31.38	-34.04	29.94	-32.62	28.08	-30.76	29.72	-29.3
	vvaii	Zone 5	31.38	-42.00	29.94	-39.20	28.08	-35.40	26.72	-32.6



a: 10% of least horizontal dim. or 0.4h, whichever is smaller, but not less than either 4% of least horizontal dimension or 3 ft. h: mean roof height, in feet.

COMPONENTS AND CLADDING

## **INDEX OF SHEETS**

HEET NUMBER	DESCRIPTION
A-1 A-2 A-3 A-4 A-5 A-6 A-7 A-8 A-9	GENERAL NOTES SHEET SITE PLAN FLOOR PLAN ELEVATIONS FOUNDATION PLAN ROOF PLAN TYPICAL SECTIONS AND DETAILS FRAMING DETAILS ELECTRICAL PLAN



Section 1988

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DRAWN BY W.H.F. DATE 4/07/24 APPROVED W.H.F. REVISIONS

PROJECT NO. 24.R009