

#### -2X4 OUTRIGGER @ 24" O.C. -7/16" OSB ROOF SHEATHING 8d 6" O.C. EDGE, 12" O.C. FIELD, & 4" O.C. GABLES **Н3 EACH** — -BLOCKING REQUIRED BETWEEN OUT RIGGERS (4) 12dS-INSTALL 2X4 SPF #2 DIAGONAL BRACE -AND NAIL TO BLOCKING AT TOP CHORD & BOTTOM CHORD AND RAT RUN @ 6' O.C 7/16" OSB 8d 6" O.C. --EDGE & 12" O.C. FIELD DIAGONAL BRACE MUST BE NAILED TO TRUSS WEBS FOR LENGTH OVER 12' IT MAY BE "T" BRACED UP ATTACH RAT RUN TO 12' AND UNBRACED UP TO 7' BLOCKING w/ (4) 12dS ~ (4) 12dS -TOE NAIL TRUSS -TO TOP PLATE 12d @ 6" O.C. - 2X4X8' RAT RUN NAIL EACH -(4) 12dS CONNECTION w/ (4) 12dS —(8) 12dS -2X4 SPF #2 BLOCKING - H3 INSTALLED HORIZONTALLY 12dS = 12d SINKER OR .135" X 3.125" OR .131 X 3.25"

SPACE RAT RUN & DIAGONAL BRACE 6'-0" O.C. FOR GABLE HEIGHT UP TO 25'-0" 110 MPH, EXP. C, ENCLOSED

## ONE STORY WALL SECTION

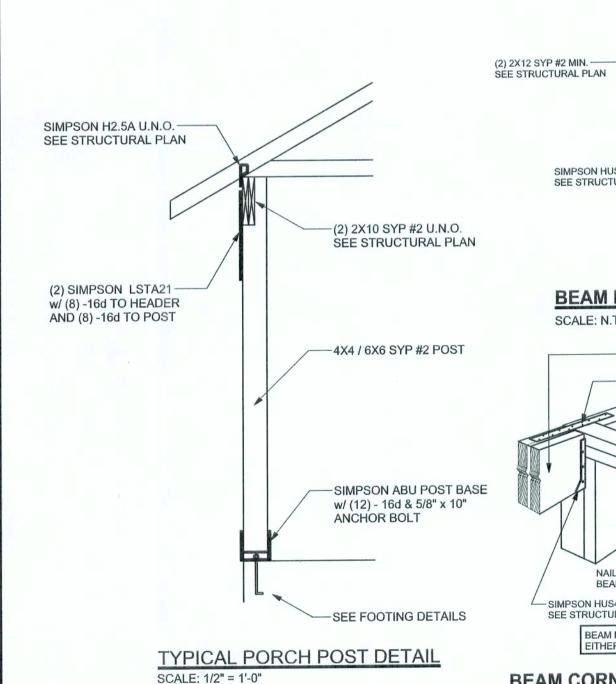
## SCALE: 3/4" = 1'-0"

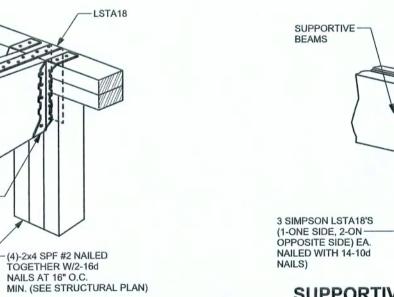
## **EXTERIOR WALL STUD TABLE FOR SPF #2 STUDS**

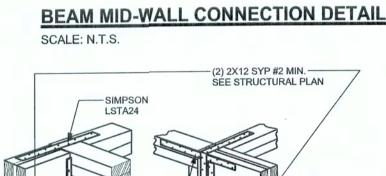
(1) 2x4 @ 16" OC	TO 11'-9" STUD HEIGHT
(1) 2x4 @ 12" OC	TO 13'-0" STUD HEIGHT
(1) 2x6 @ 16" OC	TO 18'-10' STUD HEIGHT
(1) 2x6 @ 12" OC	TO 20.0' STUD HEIGHT

THIS STUD HEIGHT TABLE IS PER WFCM 2001, TABLE 3.20B, EXTERIOR LOAD BEARING & NON LOAD BEARING STUD LENGTHS RESISTING INTERIOR ZONE WINDLOADS 110 MPH EXPOSURE B. STUD SPACINGS SHALL BE MULTIPLIED BY 0.85 FOR FRAMING LOCATED WITHIN 4 FEET OF CORNERS FOR END ZONE LOADING.

EXAMPLE 16" O.C. x 0.85 = 13.6" O.C.

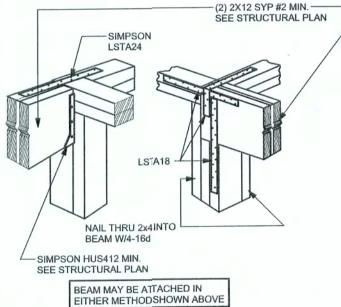




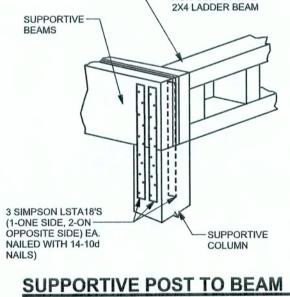


SIMPSON HUS412 MIN.

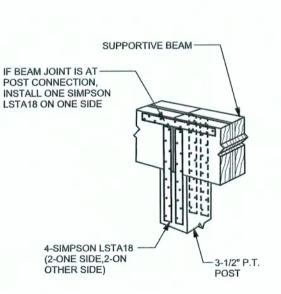
SEE STRUCTURAL PLAN



BEAM CORNER CONNECTION. DETAIL SCALE: N.T.S.







SUPPORTIVE CENTER POST TO BEAM DETAIL SCALE: N.T.S.

## - NAIL SHEATHING TO HEADER AND TOP PLATE WITH 8d AT 4" O.C. FOR UPLIFT (6) .131 x 3 1/4" GUN NAILS--(6) .131 x 3 1/4" GUN NAILS TOE NAILED THRU HEADER TOE NAILED THRU HEADER INTO KING STUD INTO KING STUD -LSTA18 (U.N.O. -CRIPPLES IF REQUIRED (4) .131 x 3 1/4" GUN NAILS - TOE NAILED THRU SILL -INTO JACK STUD U.N.O. TYPICAL STRAPPING (U.N.O.)

**GRADE & SPECIES TABLE** 

SYP #2

SYP #2

SYP #2

24F-V3 SP

MICROLAM

PARALAM

TIMBERSTRAND | 1700 |

PRE ENGINEERED ROOF TRUSS -

DOUBLE 2x4 SPF TOP PLATE NAILED -

TOGETHER W/2-16d NAILS AT 16" O.C. 4' MIN. LAP w/ (12) - 16d OR 4" LAP w/

ALL STUDS TO BE 2x4 ----

CONTINUOUS FRAME TO

CEILING DIAPHRAGM DETAIL

SPF NAILED TO TOP

WITH 2-16d NAILS

AND BOTTOM PLATES

CS20 w/ (4) - 16d &(14) - 10d

INTERIOR CEILING AS -SPECIFIED ON FLOOR PLAN

CONTINUOUS FRAME -TO TOP PLATE AT

BOTTOM CHORD OF TRUSS

2x10

2x12

GLB

Fb (psi) E (10<sup>6</sup> psi)

1.6

1.6

1.8

1.7

1.9

1200

1050

975

2400

1600

2900

-CS20 SAME STUD AS SP4 w/-(10) 10D NAILS (U.N.O.) (1) 2X6 SPF #2 SILL UP TO 11'-0" U.N.O. (1) 2X4 SPF #2 SILL UP TO 7'-3" U.N.O. (FOR: 110 MPH, 10'-0" WALL HIGHT U.N.O.)

(SEE STRUCTURAL PLAN)

# TYPICAL HEADER STRAPING DETAIL

#### **GENERAL NOTES:**

TRUSSES: TRUSSES SHALL BE DESIGNED BY A FLORIDA LICENSED ENGINEER IN ACCORDANCE WITH THE FBCR 2004. TRUSS ENGINEERING SHALL INCLUDE TRUSS DESIGN, PLACEMENT PLANS, TEMPORARY AND PERMANENT BRACING DETAILS, TRUSS-TO-TRUSS CONNECTIONS, AND UPLIFT AND REACTION LOADS FOR ALL BEARING LOCATIONS. TRUSS ENGINEERING IS THE RESPONSIBILITY OF THE TRUSS MANUFACTURER AND SHALL BE SIGNED & SEALED BY THE MANUFACTURER'S DESIGN ENGINEER. IT IS THE BUILDER'S RESPONSIBILITY VERIFY THE TRUSS DESIGNER FULLY SATISFIED ALL THE ABOVE REQUIREMENTS AND TO SELECT LIPLIFT CONNECTIONS BASED ON TRUSS ENGINEERING UPLIFT AND PROVIDE FOOTINGS FOR INTERIOR BEARING WALLS. BUILDER IS TO FURNISH TRUSS ENGINEERING TO WIND LOAD ENGINEER FOR REVIEW OF TRUSS REACTIONS ON THE BUILDING STRUCTURE. STRAP 2X6 RAFTERS WITH MIN UPLIFT

SITE PREPARATION: SITE ANALYSIS AND PREPARATION IS NOT PART OF THIS PLAN FOUNDATION: CONFIRM THAT THE FOUNDATION DESIGN & SITE CONDITIONS MEET

CONNECTION 415LB EACH END; 2X8 RAFTERS 700 LB EACH END.

GRAVITY LOAD REQUIREMENTS (ASSUME 1000 PSF BEARING CAPACITY UNLESS VISUAL OBSERVATION OR SOILS TEST PROVES OTHERWISE

CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS, F'c = 3000 PSI.

WELDED WIRE REINFORCED SLAB: 6" × 6" × 0" W1.4 × W1.4, FB = 85KSI, WELDED WIRE REINFORCEMENT FABRIC (W.W.M.) CONFORMING TO ASTM A185; LOCATED IN MIDDLE OF THE SLAB; SUPPORTED WITH APPROVED MATERIALS OR SUPPORTS AT SPACINGS NOT TO EXCEED 3'.

FIBER CONCRETE SLAB: CONCRETE SLABS ON GROUND CONTAINING SYNTHETIC FIBER REINFORCEMENT. FIBER LENGTH 1/2 INCH TO 2 INCHES. DOSAGE AMOUNTS FROM 0.75 TO 1.5 POUNDS PER CUBIC YARD PER THE MANUFACTURER'S RECOMMENDATIONS. FIBERS TO COMPLY WITH ASTM C 1116. SUPPLIER TO PROVIDE ASTM C 1116 CERTIFICATION OF COMPLIANCE WHEN REQUESTED BY BUILDING OFFICIAL.

CONTROL JOINTS: WHERE SPECIFIED, SAWN CONTROL JOINTS IN SLAB-ON-GRADE SHALL BE CUT IN ACCORDANCE WITH ACI 302. JOINTS SHALL BE CUT WITHIN 12 HOURS OF SLAB PLACEMENT. THE LENG WIDTH RATIOS OF SLAB AREAS SHALL NOT EXCEED 1.5 AND TYPICAL SPACING OF CUTS TO BE 12FT. DO NOT CUT WWM OR REINFORCING STEEL, (RECOMMENDED LOCATION OF CONTROL JOINTS IS SUBJECT TO OWNER AND CONTRACTOR'S APPROVAL. THE CONTROL JOINTS ARE NOT INTENDED TO PREVENT CRACKS BUT RATHER TO ENCOURAGE THE SLAB TO CRACK ON A GIVEN LINE.)

REBAR: ASTM A 615, GRADE 60, DEFORMED BARS, FY = 60 KSI. ALL LAP SPLICES 40 \* DB (25" FOR #5 BARS); UNO. ALL REINFORCEMENT SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI 315-96, U.N.O.

GLULAM BEAMS: GLULAM BEAM, GLB, 24F-V3SP, Fb = 2.4ksi, E = 1800ksi; UNO. SUPPLIER MAY SUPPLY AN ALTERNATE BEAM WITH EQUAL PROPERTIES OR MAY SUBMIT THEIR OWN SIZING CALCS. ROOF SHEATHING: ALL ROOFS ARE HORIZONTAL DIAPHRAGMS; 7/16" OSB SHEATHING, UNBLOCKED, APPLIED PERPENDICULAR TO FRAMING, OVER A MINIMUM OF 3 FRAMING MEMBERS, WITH PANEL EDGES STAGGERED, FASTENED WITH 8d COMMON NAILS (.131), 6"OC PANEL EDGES, 12"0C INTERMEDIATE MEMBERS, GABLE ENDS AND DIAPHRAGM BOUNDARY; 4"OC, UNO.

STRUCTURAL CONNECTORS: MANUFACTURERS AND PRODUCT NUMBER FOR CONNECTORS, ANCHORS, AND REINFORCEMENT ARE LISTED FOR EXAMPLE NOT ENDORSEMENT. AN EQUIVALENT DEVICE OF THE SAME OR OTHER MANUFACTURER CAN BE SUBSTITUTED FOR ANY DEVICES LISTED IN THE EXAMPLE TABLES AS LONG AS IT MEETS THE REQUIRED LOAD CAPACITIES. MANUFACTURER'S INSTALLATION INSTRUCTIONS MUST BE FOLLOWED TO ACHIEVE RATED LOADS.

ANCHOR BOLTS: A-307 ANCHOR BOLTS WITH MINIMUM EMBEDMENT AS SPECIFIED IN DRAWINGS BUT NO LESS THAN 7" IN CONCRETE OR REINFORCED BOND BEAM OR 15" IN GROUTED CMU.

WASHERS: WASHERS USED WITH 1/2" BOLTS TO BE 2" x 2" x 9/64"; WITH 5/8" BOLTS TO BE 3" x 3" x 9/64"; WITH 3/4" BOLTS TO BE 3" x 3" x 9/64"; WITH 7/8" BOLTS TO BE 3" x 3" x 5/16"; UNO.

NAILS: ALL NAILS ARE COMMON NAILS UNLESS OTHERWISE SPECIFIED OR ACCEPTED BY FBC TEST REPORTS AS HAVING EQUAL STRUCTURAL VALUES.

#### BUILDER'S RESPONSIBILITY

SPECIFICALLY NO	T PART OF THE WIND LOAD ENGINEER'S SCOPE OF WORK.
CONFIRM SITE CONDITED BACKFILL HEIGHT, WIN	TIONS, FOUNDATION BEARING CAPACITY, GRADE AND ID SPEED AND DEBRIS ZONE, AND FLOOD ZONE.
PROVIDE MATERIALS A	AND CONSTRUCTION TECHNIQUES, WHICH COMPLY WITH FBCR 2004 THE STATED WIND VELOCITY AND DESIGN PRESSURES.
PROVIDE A CONTINUC BELIEVE THE PLAN ON THE WIND LOAD ENGII	US LOAD PATH FROM TRUSSES TO FOUNDATION. IF YOU IITS A CONTINUOUS LOAD PATH CONNECTION, CALL NEER IMMEDIATELY.
DESIGN, PLACEMENT	ANUFACTURER'S SEALED ENGINEERING INCLUDES TRUSS PLANS, TEMPORARY AND PERMANENT BRACING DETAILS, NNECTIONS, AND UPLIFT AND REACTION LOADS FOR ALL

## ROOF SYSTEM DESIGN

THE SEAL ON THESE PLANS FOR COMPLIANCE WITH FBCR 2004, SECTION R301.2.1 IS BASED ON REACTIONS, UPLIFTS, AND BEARING LOCATIONS IN TRUSS ENGINEERING SUBMITTED TO THE WIND LOAD ENGINEER. IT IS THE RESPONSIBILITY OF THE BUILDER TO CHECK ALL DETAILS OF THE COMPLETE ROOF SYSTEM DESIGN SUBMITTED BY THE TRUSS MANUFACTURER AND HAVE IT SIGNED, AND SEALED BY A DESIGN PROFESSIONAL FOR CORRECT APPLICATION OF FBCR 2004 REQUIRED LOADS AND ANY SPECIAL LOADS. THE BUILDER IS RESPONSIBLE TO REVIEW EACH INDIVIDUAL TRUSS MEMBER AND THE TRUSS ROOF SYSTEM AS A WHOLE AND TO PROVIDE RESTRAINT FOR ANY LATERAL BRACING. THE BUILDER SHOULD USE CARE CHECKING THE ROOF DESIGN BECAUSE THE WIND LOAD ENGINEER IS SPECIFICALLY NOT RESPONSIBLE FOR THE TRUSS LAYOUT WHICH WAS CREATED BY THE TRUSS MANUFACTURER AND THE TRUSS DESIGNER ALSO DENIES RESPONSIBILITY FOR THE LAYOUT PER NOTES ON THEIR SEALED TRUSS SHEETS.

**MASONRY NOTES:** 

Grout

CMU standard

Clay brick standard

Movement joints

Reinforcing bars, #3 - #11

Coating for corrosion protection

ACI530.1-02 Section

IN WRITING.

3.3.E.7

MASONRY CONSTRUCTION AND MATERIALS FOR THIS PROJECT SHALL

CONFORM TO ALL REQUIREMENTS OF "SPECIFICATION FOR MASONRY

MUST IMMEDIATELY, BEFORE PROCEDING, NOTIFY THE ENGINEER OF

ANY CONFLICTS BETWEEN ACI 530.1-02 AND THESE DESIGN DRAWINGS.

ANY EXCEPTIONS TO ACI 530.1-02 MUST BE APPROVED BY THE ENGINEER

8" block bearing walls F'm = 1500 psi

ASTM C 476, admixtures require approval

ASTM C 90-02, Normal weight, Hollow, medium surface finish, 8"x8"x16" running

bond and 12"x12" or 16"x16" column

ASTM C 216-02, Grade SW, Type FBS,

ASTM 615, Grade 60, Fy = 60 ksi, Lap

splices min 48 bar dia. (30" for #5)

Anchors, sheet metal ties completely

embedded in mortar or grout, ASTM A525, Class G60, 0.60 oz/ft2 or 304SS

moisture or wire ties, anchors, sheet metal ties not completely embedded in mortar or

grout, ASTM A153, Class B2, 1.50 oz/ft2

Contractor assumes responsibility for type

and location of movement joints if not

require engineering approval.

detailed on project drawings.

ASTM C 270, Type N, UNO

5.5"x2.75"x11.5"

Coating for corrosion protection | Joint reinforcement in walls exposed to

3.3.E.2 Pipes, conduits, and accessories Any not shown on the project drawings

STRUCTURES" (ACI 530.1/ASCE 6/TMS 602). THE CONTRACTOR AND MASON

## DESIGN DATA

ANCHOR TABLE

< 455

< 360

< 455

< 415

< 600

< 950

< 745

< 1465

< 1465

< 990

< 760

< 1470

< 1470

< 1000

< 1450

< 2900

< 2050

< 3965

< 10980

< 10530

< 9250

< 435

< 455

< 825

< 825

< 885

< 1240

< 885

< 1240

< 1235

< 1235

< 1030

< 1705

< 1350

< 2310

< 2775

< 4175

< 1400

< 3335

< 2200

< 2300

< 2320

MANUFACTURER'S ENGINEERING

UPLIFT LBS. SYP UPLIFT LBS. SPF

OBTAIN UPLIFT REQUIREMENTS FROM TRUSS

< 265

< 235

< 320

< 365

< 535

< 820

< 565

< 1050

< 1050

< 850

< 655

< 1265

< 1265

< 860

< 1245

< 2490

< 1785

< 6485

< 9035

< 9250

< 435

< 420

< 825

< 760

< 760

< 1065

< 1165

< 1235

< 1030

< 1705

< 1305

< 2310

< 2570

< 3695

< 1400

< 3335

< 2200

< 2300

< 2320

TRUSS CONNECTOR\*

H2.5

H2.5A

H14-1

H14-2

H10-1

H10-2

H16-1

H16-2

MTS24C

HTS24

LGT2

**TEAVY GIRDER TIEDOWNS** 

HGT-2

HGT-3

HGT-4

STUD STRAP CONNECTOR\*

SSP DOUBLE TOP PLATE

SSP SINGLE SILL PLATE

DSP SINGLE SILL PLATE

SP4

SPH6

LSTA18

LSTA21

CS20

CS16

STUD ANCHORS

LTT19

LTTI31

HTT16

PAHD42

HPAHD22

ABU44

ABU66

ABU88

DSP DOUBLE TOP PLATE

TO PLATES TO RAFTER/TRUSS

3-8d

4-8d

4-8d

4-8d

5-8d

5-8d

8-8d

5-10d, 1 1/2

12-8d, 1 1/2

12-8d, 1 1/2

8-8d, 1 1/2"

6-10d

2-10d, 1 1/2"

2-10d, 1 1/2"

7-10d 1 1/2"

12-10d 1 1/2"

14 -16d

16 -10d

3-8d

4-8d

4-8d

4-8d

5-8d

5-8d

5-10d, 1 1/2

13-8d

8-8d, 1 1/2"

6-10d

10-10d, 1 1/2"

10-10d, 1 1/2"

7-10d 1 1/2"

12-10d 1 1/2"

14 -16d

1 -10d

16-10d

18-8d

28-8d

TO STUDS

8-16d

2-5/8" BOLTS

18 - 16d

16-16d

16-16d

12-16d

12-16d

18 - 16d

18-10d, 1 1/2

15-8d

8-8d

TO STUDS

TO FOUNDATION

-5/8" THREADED RO

12" EMBEDMENT

5/8" THREADED ROI

5/8" THREADED ROD

12" EMBEDMENT

2-5/8" THREADED ROI

12" EMBEDMENT

TO STUDS

4 -10d

4 -10d

8 -10d

8 -10d

6-10d, 1 1/2"

10-10d, 1 1/2"

6-10d, 1 1/2" 10-10d, 1 1/2"

TO FOUNDATION

1/2" AB

1/2" AB

5/8" AB

5/8" AB

1/2" AB

1/2" AB

2-5/8" AB

12" EMBEDMENT

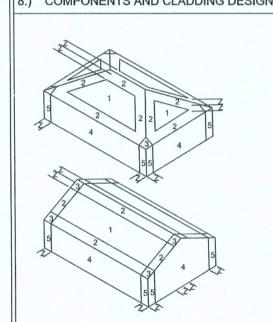
WIND LOADS	ER FLORIDA BUILDING CODE 2004 RESIDENTIAL, SECTION R301.2.1
MEAN ROOF ON UPPER H	MPLE DIAPHRAGM BUILDINGS WITH FLAT, HIPPED, OR GABLE ROOFS; EIGHT NOT EXCEEDING LEAST HORIZONTAL DIMENSION OR 60 FT; NOT LF OF HILL OR ESCARPMENT 60FT IN EXP. B, 30FT IN EXP. C AND >10% NOBSTRUCTED UPWIND FOR 50x HEIGHT OR 1 MILE WHICHEVER IS LES
BUILDING IS	OT IN THE HIGH VELOCITY HURRICANE ZONE
BUILDING IS	OT IN THE WIND-BORNE DEBRIS REGION
1.) BASIC W	ND SPEED = 110 MPH

2.) WIND EXPOSURE = B

3.) WIND IMPORTANCE FACTOR = 1.0 4.) BUILDING CATEGORY = II

5.) ROOF ANGLE = 10-45 DEGREES 6.) MEAN ROOF HEIGHT = <30 FT

7.) INTERNAL PRESSURE COEFFICIENT = N/A (ENCLOSED BUILDING) 8.) COMPONENTS AND CLADDING DESIGN WIND PRESSURES (TABLE R301.2(2))



NOT IN FLOOD ZONE (BUILDER TO VERIFY)

Zone	Епес	tive wi	e Wind Area (ft2)			
	1	0		100		
1	19.9	-21.8	18.1	-18.1		
2	19.9	-25.5	18.1	-21.8		
2 O'hg		-40.6		-40.6		
3	19.9	-25.5	18.1	-21.8		
3 O'hg		-68.3		-42.4		
4	21.8	-23.6	18.5	-20.4		
5	21.8	-29.1	18.5	-22.6		
Wor	Doors & Windows Worst Case (Zone 5, 10 ft2)			-29.1		
8x7 Gar	age D	oor	19.5	-22.9		
16x7 Ga	arage l	Door	18.5	-21.0		

FLOOR	40 PSF (ALL OTHER DWELLING ROOMS)
	30 PSF (SLEEPING ROOMS)
	30 PSF (ATTICS WITH STORAGE)
	10 PSF (ATTICS WITHOUT STORAGE, <3:12)
ROOF	20 PSF (FLAT OR <4:12)
	16 PSF (4:12 TO <12:12)
	12 PSF (12:12 AND GREATER)
STAIRS	40 PSF (ONE & TWO FAMILY DWELLINGS)

REVISIONS

/INDLOAD ENGINEER: Mark Disosway PE No.53915, POB 868, Lake City, FL 32056, 386-754-5419 DIMENSIONS: Stated dimensions supercede scaled

Mark Disosway, P.E. for resolution.

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comply with section R301.2.1, florida building code residential 2004, to the best of my knowledge. LIMITATION: This design is valid for one building, at specified location.

examined this plan, and that the applicable portions of the plan, relating to wind engineer

P.E. 53915

Residence

Michael Toundas

ADDRESS: 1013 SW Scrubtown Rd. Ft. White, Florida

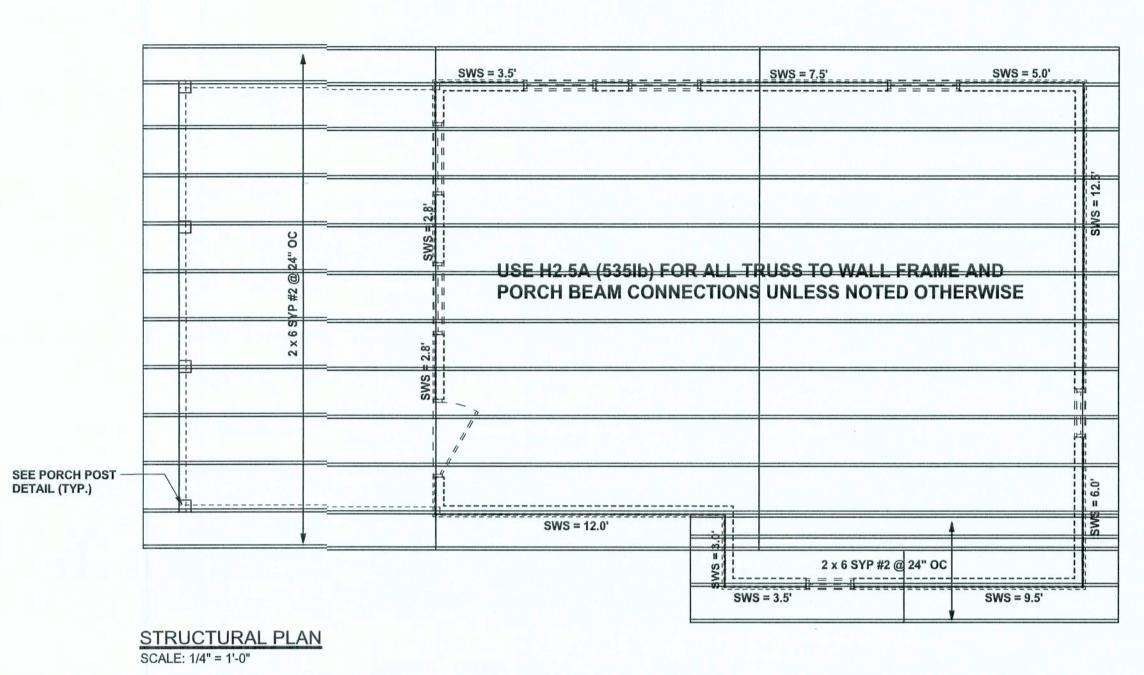
Mark Disosway P.E. P.O. Box 868 Lake City, Florida 32056 Phone: (386) 754 - 5419 Fax: (386) 269 - 4871

PRINTED DATE: September 26, 2007 STRUCTURAL B Ben Spakrs

FINALS DATE: 26 / Sep / 07 JOB NUMBER:

> 709192 DRAWING NUMBER

OF 2 SHEETS



**HEADER LEGEND** 

(2) 2X12X0',1J 1K HEADER/BEAM CALL-OUT (U.N.O.) ----NUMBER OF KING STUDS (FULL LENGTH) ---NUMBER OF JACK STUDS (UNDER HEADER) —SPAN OF HEADER SIZE OF HEADER MATERIAL ---NUMBER OF PLIES IN HEADER

TOTAL SHEAR WALL SEGMENTS

SWS = 0.0' INDICATES SHEAR WALL SEGMENTS TRANSVERSE 11.0' LONGITUDINAL 9.5' 27.0'

STRUCTURAL PLAN NOTES

SN-1 ALL LOAD BEARING FRAME WALL & PORCH HEADERS SHALL BE A MINIMUM OF (2) 2X12 SYP #2 (U.N.O.)

ALL LOAD BEARING FRAME WALL HEADERS SN-2 SHALL HAVE (1) JACK STUD & (1) KING STUD

EACH SIDE (U.N.O.)

DIMENSIONS ON STRUCTURAL SHEETS SN-3 ARE NOT EXACT. REFER TO ARCHITECTURAL FLOOR PLAN FOR ACTUAL DIMENSIONS

PERMANENT TRUSS BRACING IS TO BE INSTALLED AT LOCATIONS AS SHOWN ON THE SEALED TRUSS DRAWINGS. SN-4 LATERAL BRACING IS TO BE RESTRAINED PER BCSI1-03, BCSI-B1, BCSI-B2, & BCSI-B3, BCSI-B1, BCSI-B2, & BCSI-B3 ARE FURNISHED BY THE TRUSS SUPPLIER, WITH THE SEALED TRUSS PACKAGE

#### WALL LEGEND

SWS = 0.0'	1ST FLOOR EXTERIOR WALL
SWS = 0.0'	2ND FLOOR EXTERIOR WALL
IBW	1ST FLOOR INTERIOR BEARING WALL
IBW	2ND FLOOR INTERIOR BEARING WALL

CONNECTIONS, WALL, & HEADER DESIGN IS BASED ON REACTIONS & UPLIFTS FROM TRUSS ENGINEERING FURNISHED BY SANTA FE

> INDLOAD ENGINEER: Mark Disosway, PE No.53915, POB 868, Lake City, FL 32056, 386-754-5419 DIMENSIONS: dimensions. Refer all questions to Mark Disosway, P.E. for resolution.

REVISIONS

SOFTPIAN APPLIANCE APPLIAN

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comply with section R301.2.1, florida building code residential 2004, to the best of my

examined this plan, and that the applicable portions of the plan, relating to wind engine

LIMITATION: This design is valid for one building, at specified location. MARK DISOSWAY P.E. 53915

> Michael Toundas Residence

ADDRESS: 1013 SW Scrubtown Rd. Ft. White, Florida

Mark Disosway P.E. P.O. Box 868 Lake City, Florida 32056 Phone: (386) 754 - 5419 Fax: (386) 269 - 4871

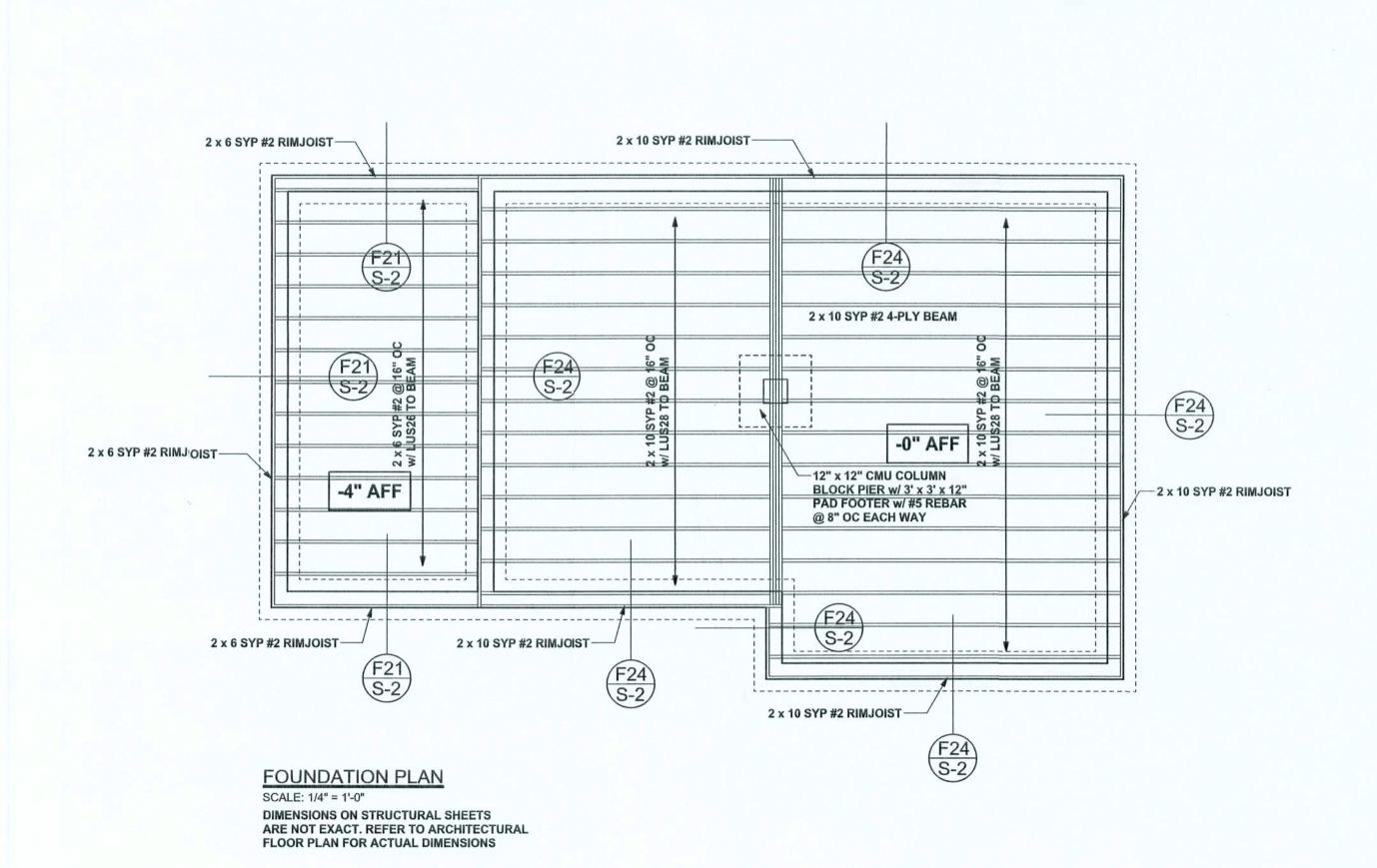
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**S-2** OF 2 SHEETS





CS20 (10) 10D NAILS -SAME STUD AS SP4 1/4" ANGLE IRON ATTACH -META16 @ 48" OC w/ (7) THRU BOLTS @ 24" OC 10D x 1 1/2 INTO RIM RIM JOIST-2x8 P.T. SILL PLATE-TERMITE SHIELD -#5 CONTINUOUS -IN CMU BOND BEAM FINISH GRADE 8X8X16, RUNNING BOND, -CMU STEM WALL #5 VERT. @ 6' O.C. -STD HOOKS TOP + BOT (2) #5 CONTINUOUS -20" x 12" x CONT. CONCRETE STRIP FOOTING ----

The under-floor space between the bottom of the floor joists and the earth under any building (except space occupied by a basement or cellar) shall be provided with ventilation openingsthrough foundation walls or exterior walls. The minimum

net area of ventilation openings shall not be less than 1 square foot for each 150 square feet (0.67 m2 for each 100 m2) of

The minimum net area of ventilation openings shall not be less than 1 square foot (0.0929 m2) for each 150 square feet

(100 m2) of under-floor space area. One such ventilating opening shall be within 3 feet (914 mm) of each corner of the building. Ventilation openings shall be covered for their height and width with any of the following materials provided that

1. Where warranted by climatic conditions, ventilation openings to the outdoors are not required if ventilation

2. The total area of ventilation openings may be reduced to 1/1500 of the under-floor area where the ground surface is treated with an approved vapor retarder material and the required openings are placed so as to

3. Under-floor spaces used as supply plenums for distribution of heated and cooled air shall comply with the

4. Ventilation openings are not required where continuously operated mechanical ventilation is provided at a rate of 1.0 cfm (10 m2) for each 50 square feet (1.02 L/s) of under-floor space floor area and ground

5. Ventilation openings are not required when the ground surface is covered with an approved vapor retarder material, the space is supplied with conditioned air and the permeter walls are insulated to R-5 for North

Access shall be provided to all under-floor spaces. Access openings through the floor shall be a minimum of 18 inches by

24 inches (457 mm by 610 mm). Openings through a perimeter wall shall be 16 inches by 24 inches (407 mm by 610 mm).

(407 mm by 610 mm) shall be provided. The bottom of the areaway shall be below the threshold of the access opening.

When any portion of the through wall access is below grade, an areaway of not less than 16 inches by 24 inches

Through wall access openings shall not be located under a door to the residence. See M1305.1.4 for access

provide cross-ventilation of the space. The installation of operable louvers shall not be prohibited.

under-floor space area. One such ventilating opening shall be within 3 feet (914 mm) of each corner of said building.

R408.2 Openings for under-floor ventilation.

Cast iron grills or grating.

Exceptions:

Extruded load-bearing brick vents.

openings to the interior are provided.

requirements of Section M1601.9.

the least dimension of the covering shall not exceed 1/4 inch (6.4 mm):

5. Hardware cloth of 0.035 inch (0.89 mm) wire or heavier.

surface is covered with an approved vapor retarder material.

Florida, R-4 for Central Florida and R-0 for South Florida.

requirements where mechanical equipment is located under flcors.

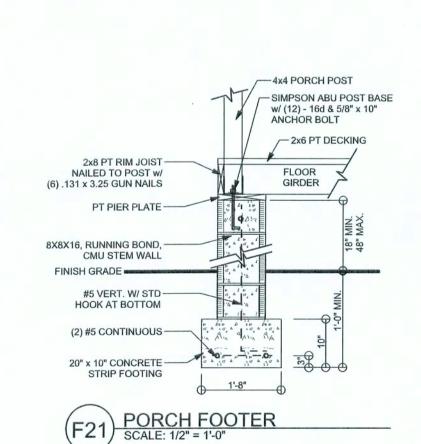
1. Perforated sheet metal plates not less than 0.070 inch (1.8 mm) thick. 2. Expanded sheet metal plates not less than 0.047 inch (1.2 nm) thick.

6. Corrosion-resistant wire mesh, with the least dimension being 1/8 inch (3.2 mm).

#### TALL STEM WALL TABLE

The table assumes 60 ksi reinforcing bars with 6" hook in the footing and bent 24" into the reinforced slab at the top. The vertical steel is to be placed toward the tension side of he CMU wall (away from the soil pressure, within 2" of the exterior side of the wall). If thewall is over 8' high, add Durowall ladder reinforcement at 16"OC vertically or a horizontal bond beam with 1#5 continuous at mid height. For higher parts of the wall 12" CMU may be with reinforcement as shown in the table below.

STEMWALL HEIGHT (FEET)	UNBALANCED BACKFILL HEIGHT	FOR 8	VERTICAL REINFORCEMENT FOR 8" CMU STEMWALL (INCHES O.C.)			VERTICAL REINFORCEMENT FOR 12" CI/U STEMWALL (INCHES O.C.)		
		#5	#7	#8	#5	#7	#8	
3.3	3.0	96	96	96	96	96	96	
4.0	3.7	96	96	96	96	96	96	
4.7	4.3	88	96	96	96	96	96	
5.3	5.0	56	96	96	96	96	96	
6.0	5.7	40	80	96	80	96	96	
6.7	6.3	32	56	80	56	96	96	
7.3	7.0	24	40	56	40	80	96	
8.0	7.7	16	32	48	32	64	80	
8.7	8.3	8	24	32	24	48	64	
9.3	9.0	8	16	24	16	40	48	



1. D'A 1. D'A .

(4) .131" x 3 1/4" —

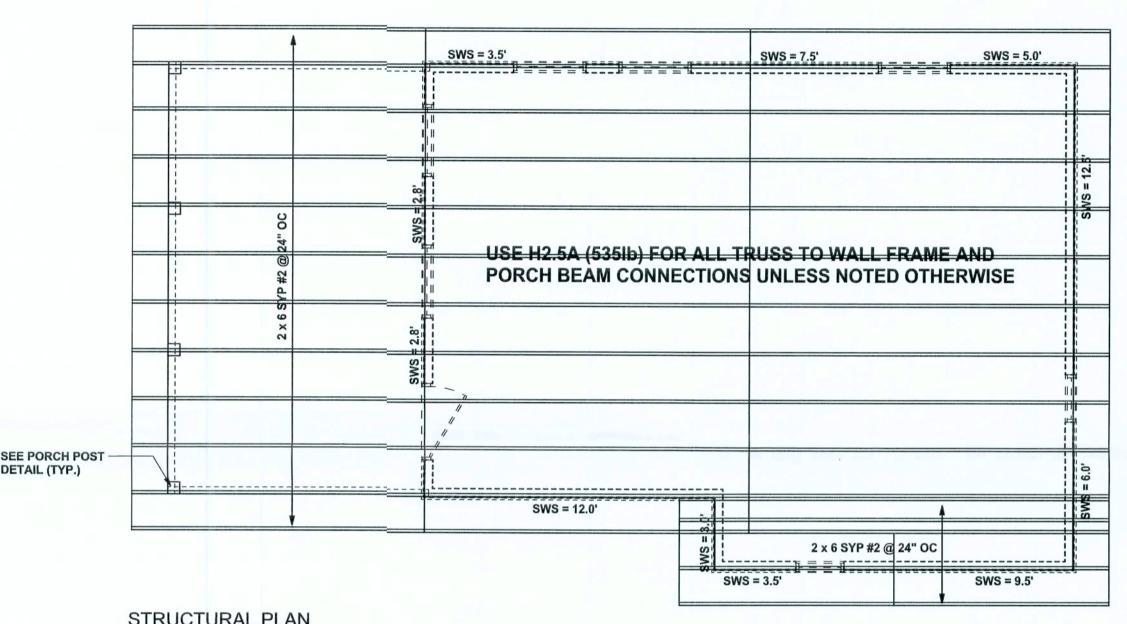
PT PIER PLATE -

#5 VERT.STD -HOOKS TOP + BOT

(4) 3/16 x 3" TAPCONS -

12"x12" CMU COLUMN — BLOCK PIER

GUN NAILS TOE NAILED



HEADER LEGEND

(2) 2X12X0',1J 1K HEADER/BEAM CALL-OUT (U.N.O.) ----NUMBER OF KING STUDS (FULL LENGTH) —NUMBER OF JACK STUDS (UNDER HEADER) -SPAN OF HEADER SIZE OF HEADER MATERIAL -NUMBER OF PLIES IN HEADER

## TOTAL SHEAR WALL SEGMENTS

SWS = 0.0' INDICATES SHEAR WALL SEGMENTS TRANSVERSE 11.0' LONGITUDINAL 9.5' 27.0'

STRUCTURAL PLAN NOTES

ALL LOAD BEARING FRAME WALL & PORCH HEADERS SHALL BE A MINIMUM OF (2) 2X12 SYP #2 (U.N.O.)

ALL LOAD BEARING FRAME WALL HEADERS SN-2 SHALL HAVE (1) JACK STUD & (1) KING STUD

DIMENSIONS ON STRUCTURAL SHEETS ARE NOT EXACT. REFER TO ARCHITECTURAL FLOOR PLAN FOR ACTUAL DIMENSIONS

EACH SIDE (U.N.O.)

PERMANENT TRUSS BRACING IS TO BE INSTALLED AT LOCATIONS AS SHOWN ON THE SEALED TRUSS DRAWINGS. SN-4 LATERAL BRACING IS TO BE RESTRAINED PER BCSI1-03, BCSI-B1, BCSI-B2, & BCSI-B3. BCSI-B1, BC\$I-B2, & BCSI-B3 ARE FURNISHED BY THE TRUSS SUPPLIER, WITH THE SEALED TRUSS PACKAGE

#### WALL LEGEND

SWS = 0.0'	1ST FLOOR EXTERIOR WALL
SWS = 0.0'	2ND FLOOR EXTERIOR WALL
IBW	1ST FLOOR INTERIOR BEARING WALL
iBW	2ND FLOOR INTERIOR BEARING WALL

CONNECTIONS, WALL, & HEADER DESIGN IS BASED ON REACTIONS & UPLIFTS FROM TRUSS ENGINEERING FURNISHED BY SANTA FE

> WINDLOAD ENGINEER: Mark Disosway. PE No.53915, POB 868, Lake City, FL 32056, 386-754-5419 DIMENSIONS:

**REVISIONS** 

10/10/2007

SOFTPIAN

dimensions. Refer all questions to Mark Disosway, P.E. for resolution. Do not proceed without clarification. COPYRIGHTS AND PROPERTY RIGHTS: Mark Disosway, P.E. hereby expressly reserv its common law copyrights and property right in these instruments of service. This document not to be reproduced, altered or copied in any form or manner without first the express written

permission and consent of Mark Disosway. CERTIFICATION: I hereby certify that I have examined this plan, and that the applicable portions of the plan, relating to wind engineering comply with section R301.2.1, florida building code residential 2004, to the best of my

LIMITATION: This design is valid for one building, at specified location.

MARK DISOSWAY P.E. 53915

Michael Toundas Residence

ADDRESS: 1013 SW Scrubtown Rd. Ft. White, Florida

Mark Disosway P.E. P.O. Box 868 Lake City, Florida 32056 Phone: (386) 754 - 5419 Fax: (386) 269 - 4871

> PRINTED DATE: October 10, 2007 STRUCTURAL BY

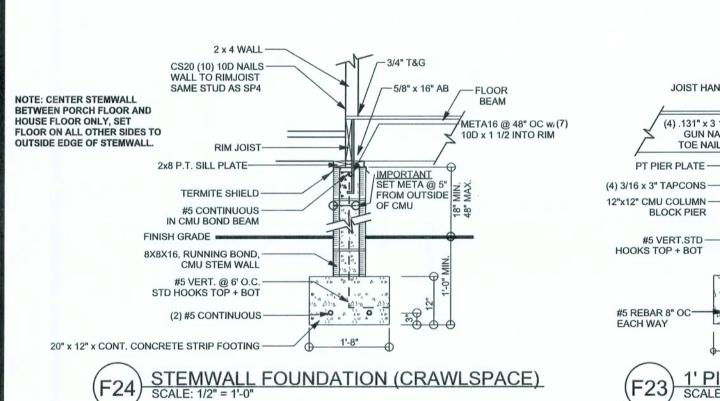
> > Ben Spakrs

FINALS DATE: 26 / Sep / 07

> JOB NUMBER: 709192 DRAWING NUMBER

> > **S-2** OF 2 SHEETS

SEE PORCH POST -DETAIL (TYP.)



#### TALL STEM WALL TABLE

R408.1 Ventilation.

Cast iron grills or grating. Extruded load-bearing brick vents.

openings to the interior are provided.

requirements of Section M1601.9.

Exceptions:

The under-floor space between the bottom of the floor joists and the earth under any building (except space occupied by a basement or cellar) shall be provided with ventilation openings through foundation walls or exterior walls. The minimum net area of ventilation openings shall not be less than 1 square foot for each 150 square feet (0.67 m2 for each 100 m2) of

under-floor space area. One such ventilating opening shall be within 3 feet (914 mm) of each corner of said building. R408.2 Openings for under-floor ventilation. The minimum net area of ventilation openings shall not be less than 1 square foot (0.0929 m2) for each 150 square feet

(100 m2) of under-floor space area. One such ventilating opening shall be within 3 feet (914 mm) of each corner of the building. Ventilation openings shall be covered for their height and width with any of the following materials provided that

1. Where warranted by climatic conditions, ventilation openings to the outdoors are not required if ventilation

2. The total area of ventilation openings may be reduced to 1/1500 of the under-floor area where the ground surface is treated with an approved vapor retarder material and the required openings are placed so as to

provide cross-ventilation of the space. The installation of operable louvers shall not be prohibited.

3. Under-floor spaces used as supply plenums for distribution of heated and cooled air shall comply with the

4. Ventilation openings are not required where continuously operated mechanical ventilation is provided at a rate of 1.0 cfm (10 m2) for each 50 square feet (1.02 L/s) of under-floor space floor area and ground

5. Ventilation openings are not required when the ground surface is covered with an approved vapor retarder material, the space is supplied with conditioned air and the perimeter walls are insulated to R-5 for North

Access shall be provided to all under-floor spaces. Access openings through the floor shall be a minimum of 18 inches by

(407 mm by 610 mm) shall be provided. The bottom of the areaway shall be below the threshold of the access opening.

When any portion of the through wall access is below grade, an areaway of not less than 16 inches by 24 inches

Through wall access openings shall not be located under a door to the residence. See M1305.1.4 for access

24 inches (457 mm by 610 mm). Openings through a perimeter wall shall be 16 inches by 24 inches (407 mm by 610 mm).

the least dimension of the covering shall not exceed ¼ inch (6.4 mm):

5. Hardware cloth of 0.035 inch (0.89 mm) wire or heavier.

surface is covered with an approved vapor retarder material.

requirements where mechanical equipment is located under floors.

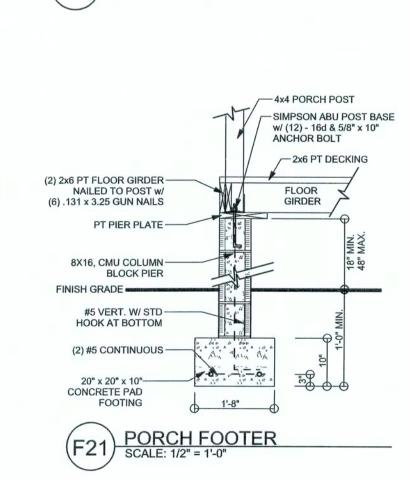
Florida, R-4 for Central Florida and R-0 for South Florida.

1. Perforated sheet metal plates not less than 0.070 inch (1.8 mm) thick. 2. Expanded sheet metal plates not less than 0.047 inch (1.2 mm) thick.

6. Corrosion-resistant wire mesh, with the least dimension being 1/8 inch (3.2 mm).

The table assumes 60 ksi reinforcing bars with 6" hook in the footing and bent 24" into the reinforced slab at the top. The vertical steel is to be placed toward the tension side of the CMU wall (away from the soil pressure, within 2" of the exterior side of the wall). If the wall is over 8' high, add Durowall ladder reinforcement at 16"OC vertically or a horizontal bond beam with 1#5 continuous at mid height. For higher parts of the wall 12" CMU may be used with reinforcement as shown in the table below.

STEMWALL HEIGHT (FEET)	UNBALANCED BACKFILL HEIGHT	VERTICAL REINFORCEMENT FOR 8" CMU STEMWALL (INCHES O.C.)			VERTICAL REINFORCEMENT FOR 12" CMU STEMWALL (INCHES O.C.)		
		#5	#7	#8	#5	#7	#8
3.3	3.0	96	96	96	96	96	96
4.0	3.7	96	96	96	96	96	96
4.7	4.3	88	96	96	96	96	96
5.3	5.0	56	96	96	96	96	96
6.0	5.7	40	80	96	80	96	96
6.7	6.3	32	56	80	56	96	96
7.3	7.0	24	40	56	40	80	96
8.0	7.7	16	32	48	32	64	80
8.7	8.3	8	24	32	24	48	64
9.3	9.0	8	16	24	16	40	48



(4) .131" x 3 1/4"---

**GUN NAILS** 

TOE NAILED

PT PIER PLATE ---

**BLOCK PIER** 

#5 VERT.STD-HOOKS TOP + BOT

