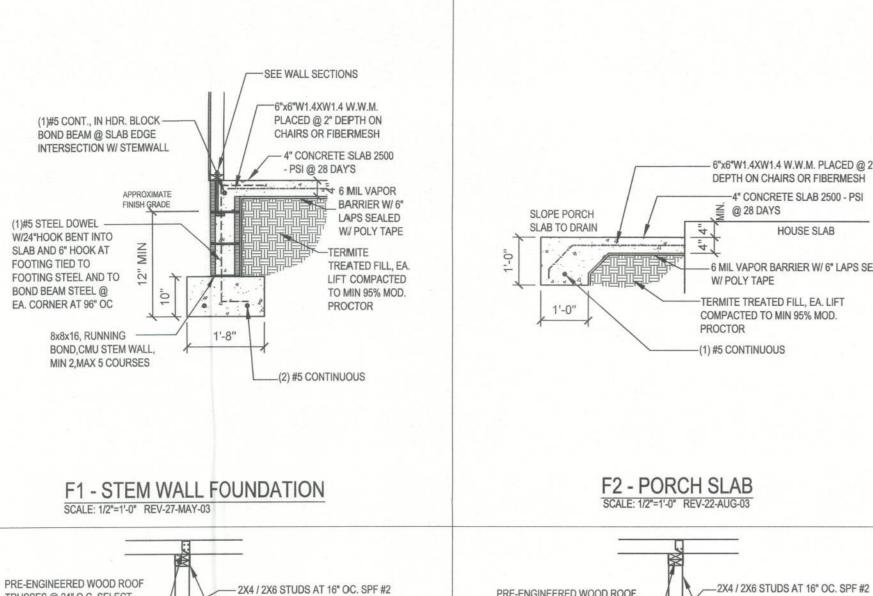


SCALE: N.T.S. REV-18-JUL-03



STRAP STUDS TOP AND BOTTOM W/

SP4 / SP6 SPACING PER TABLE

NOTE: SP2 TOP & SP1 BOTTOM

-6"X6" W1.4XW1.4 W.W.M

PLACED AT 2" DEPTH ON

6 MIL VAPOR BARRIER

WITH 6" LAIPS SEALED

WITH POLY TAPE

TERMITE TREATED FILL

EACH LIFT COMPACTED

TO MIN. 95% MOD.

PROCTOR

H2.5A

H10

HTS20

STUD PACK

SYP #2 HEADER

- (4) #10X2 1/2" FULL THREAD WOOD

MIN. 3/8" EDGE SPACING PER NDS

(4) #12X3/4" SS TEK SCREWS

1/8"X3"X3"X1 1/2" ALUMINUM

BRACKET w/ FLANGE WINGS

- 3"X3"X.092" ALUMINUM COLUMN, 6053-T6

- 3"X3"X.092" ALUMINUM COLUMN, 6053-T6

1/8"X3"X3"X1 1/2" ALUMINUM BRACKET

- 1/2" WASHER, 410SS

SIMPSON AT EPOXY

(4) #12X3/4" SS TElK SCREWS

1/2" THD ROD, G90I OR HDG w/

- 3"X3"X.092" ALUMINUM COLUMN, 6053-T6

(2) 1/4"X 2 1/2" TAP'CON, 410SS OR G95 w/

SS WASHERS 2 1/4" MIN. EMBEDMENT

(PER MIAMI DADE INOA 03-0114.03)

(1) #5 CONTINUOUIS IN STEMWALL

INTERSECTION w/ SLAB

MONOLITHIC w/ STTEM WALL

4" CONCRETE SLAIB

(4) #12X3/4" SS TEłK SCREWS

SCREWS (MIN. 2" THREAD PENETRATION

CHAIRS OR FIBERMESH

ALTERNATE FOR SP4/6

1/2" X 6" WEDGE ANCHORS —

600 LB

1000 LB

1 3/4" MIN. EDGE SPACING

SCALE: N.T.S. REV-09-MAY-04

48" O.C.

48° O.C.

32" O.C.

WEDGE ANCHOR

48" O.C.

32" O.C.

16° O.C.

N/A

F4 - INTERIOR BEARING FOOTING

SPACING PER TABLE

PRE-ENGINEERED WOOD ROOF

TRUSSES @ 24" O.C. SELECT ___

TRUSS CONNECTORS FROM

ANCHOR TABLE PER TRUSS

1/2" X 6" WEDGE ANCHORS

4" CONCRETE SLAB 2500 - ____

SPACING PER TABLE

(2) #5 CONTINUOUS-

600 LB

1000 LB

WD PT POST ---

APPROXIMATE

FINISH GRADE

(1)#5 CONT., IN HDR. BLOCK __

BOND BEAM @ SLAB EDGE

INTERSECTION W/

(1)#5 STEEL DOWEL

W/24"HOOK BENT INTO

FOOTING STEEL AND TO

BOND BEAM STEEL @ EA

8x8x16, RUNNING

BOND, CMU STEM

WALL, MIN 1,MAX 5

SCALE: 1/2"=1'-0" REV-16-MAY-03

COURSES

SLAB AND 6" HOOK AT

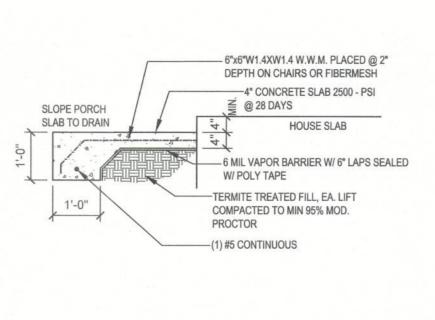
FOOTING TIED TO

CORNER AT 96" OC

STEMWALL

UPLIFT LOADS

PSI AT 28 DAYS



STRAP STUDS TOP AND BOTTOM

W/ SP4 / SP6 SPACING PER TABLE

NOTE: SP2 TOP & SP1 BOTTOM

- 6"X6" W1.4XW1.4 W.W.M.

PLACED AT 2" DEPTH ON

CHAIRS OR FIBERMESH

WITH POLY TAPE

H2.5A

H10

HTS20

STUD PACK

- 6 MIL VAPOR BARRIER

WITH 6" LAPS SEALED

TERMITE TREATED

FILL, EACH LIFT

COMPACTED TO

MIN. 95% MOD.

PROCTOR

ALTERNATE FOR SP4/6

48" O.C.

32" O.C.

16" O.C.

— POST BASE SEE W12

6"x6"W1.4XW1.4 W.W.M.

PLACED @ 2" DEPTH ON

CHAIRS OR FIBERMESH

- PSI @ 28 DAYS

- 4" CONCRETE SLAB 2500

HOUSE SLAB

- 6 MIL VAPOR BARRIER

W/ 6" LAPS SEALED W/

TERMITE TREATED FILL

EA. LIFT COMPACTED

TO MIN 95% MOD.

20"x10" POURED

__CONCRETE STRIP

PROCTOR

FOOTING

_ (2) #5 CONTINUOUS

48" O.C.

48" O.C.

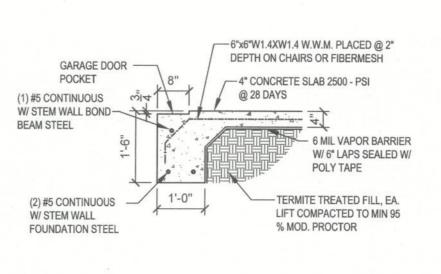
32" O.C.

TTI31 W/ 5/8" X 7

F5 - INTERIOR BEARING STEP FOOTING

1'-8"

F10 - STEM WALL PORCH FOOTING



F3 - GARAGE DOOR POCKET

-4" CONCRETE SLAB 2500 - PSI

-6"x6"W1.4XW1.4 W.W.M. PLACED @ 2"

_(1) #5 CONTINUOUS

PROCTOR

F12 - NON - BEARING STEP FOOTING

(1) #5 CONTINUOUS

— 6 MIL VAPOR BARRIER W/ 6" LAPS ŞEALED

TERMITE TREATED FILL, EA. LIFT

- 4" CONCRETE SLAB 2500 - PSI @

- 6"x6"W1.4XW1.4 W.W.M. PLACED @ 2"

TERMITE TREATED FILL

EA. LIFT COMPACTED TO

MIN 95% MOD. PROCTOR

- 6 MIL VAPOR BARRIER W/ 6"

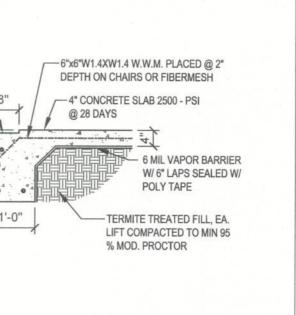
F13 - NON - BEARING THICKENED SLAB EDGE

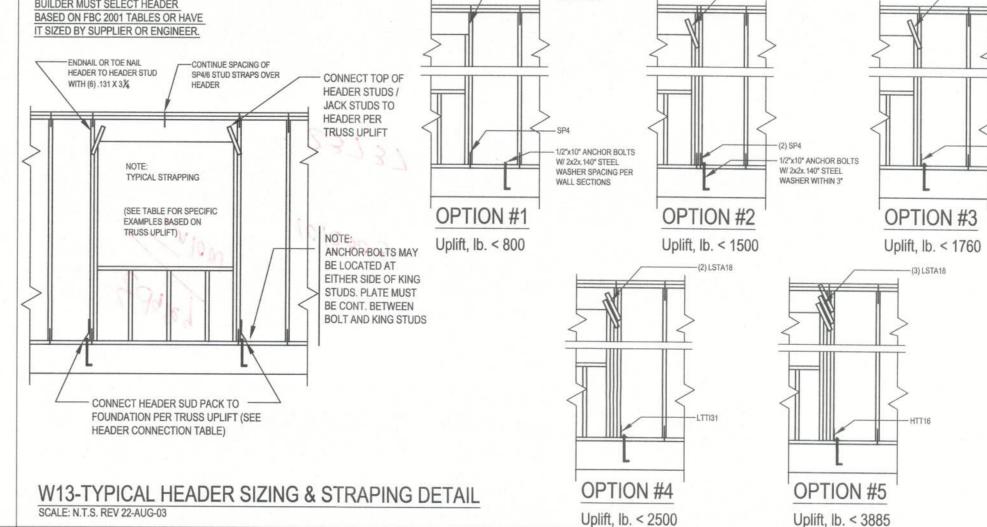
LAPS SEALED W/ POLY TAPE

DEPTH ON CHAIRS OR FIBERMESH

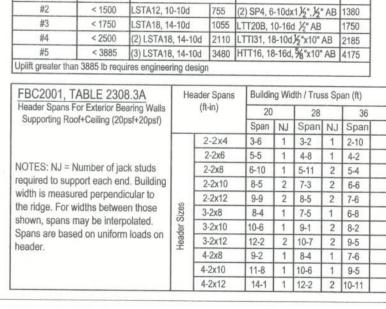
COMPACTED TO MIN 95% MOD.

DEPTH ON CHAIRS OR FIBERMESH





w/6-.131"x3.25"



oad Bearing Header Sizing Methods (BY BUILDER)

Jack Studs and King Studs (BY BUILDER)

Header Uplift Connections (BY BUILDER)

dividing by the length of the header.

Use one jack stud for every 3000 lb vertical load.

connection) and stud to foundation (bottom connection).

Option # Uplift, lb. Top Connector

< 800 End nail or toe nail

w/6-.131"x3.25"

Use supplier pubished data or Southern pine span tables.

3. For engineered lumber beams have suppliers engineer size beam.

Lookup jack studs from FBC 2001, Tables 2308.3 A, B, & C, or 2308.5.

6. Total king plus jack studs = studs needed to be there if no opening was there.

Calculate the uplift at each end of the header by summing the moments of all truss uplifts and

Bottom Connector

8. Select header connections from table below or mfg. catalog to connect header to stud (top

Determine header size from FBC 2001, Tables 2308.3 A, B, & C, or 2308.5.

N2-GENERAL NOTES:

FOUNDATION: FOR POINT LOADS GRATER THAN 5000 Ib OR REPETITIVE TRUSS LOADS GRATER THAN 2000 Ib PER TRUSS PROVIDE A THICKENED SLAB OR PAD FOOTING 1'-0"D X 1 sq ft. FOR EVERY 1000 Ib OF BEARING REINFORCE WITH #5 @ 8" O.C. EACH WAY

CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS SHALL BE F'c = 3000 PSI. WHERE EXCESS WATER IS ADDED TO THE CONCRETE SO THAT ITS SERVICABILITY IS DEGRADED, THE ATTAINMENT OF REQUIRED STRENGTH SHALL NOT RELEASE THE CONTRACTOR FROM PROVIDING SUCH MODIFICATIONS AS MAY BE REQUIRED BY THE ENGINEER TO PROVIDE A SERVICEABLE MEMBER OR SURFACE. ALL CONCRETE SHALL BE VIBRATED. NO REPAIR OR RUBBING OF CONCRETE SURFACES SHALL BE MADE PRIOR TO INSPECTION BY AND APPROVAL OF THE ENGINEER, OWNER OR HIS

WELDED WIRE REINFORCED SLAB: 6" x 6" W1.4 x 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 LENGTHS SHALL BE 1/2 INCH TO 2 INCHES IN LENGTH. DOSAGE AMOUNTS SHALL BE FROM 0.75 TO 1.5 POUNDS PER CUBIC YARD IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. SYNTHETIC FIBERS SHALL COMPLY WITH ASTM C 1116. THE MANUFACTURER OR SUPPLIER SHALL PROVIDE CERTIFICATION OF COMPLIANCE WITH ASTM C 1116 WHEN REQUESTED BY THE 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 LENGTH / 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 40, DEFORMED BARS, FY = 40 KSI. ALL LAPS SPLICES 40 * DB (25" FOR #5 BARS); UNO. ALL REINFORCEMENT SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI 315-95 WITH ACI 315-96 UNLESS NOTED OTHERWISE. ALL TENSION DEVELOPMENT, LENGTHS SHALL BE 23 INCHES.

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.

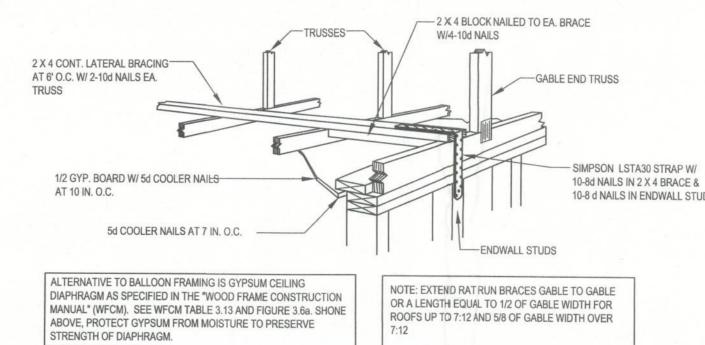
ANCHOR BOLTS: A-307 ANCHOR BOLTS WITH MINIMUM EMBEDMENT AS SPECIFIED IN DRAWINGS BUT NO LESS THAN 7" IN CONCRETE OR REINFORCED BOND BEAM OR 15" IN GROUTED CMU.

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"; NO.

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

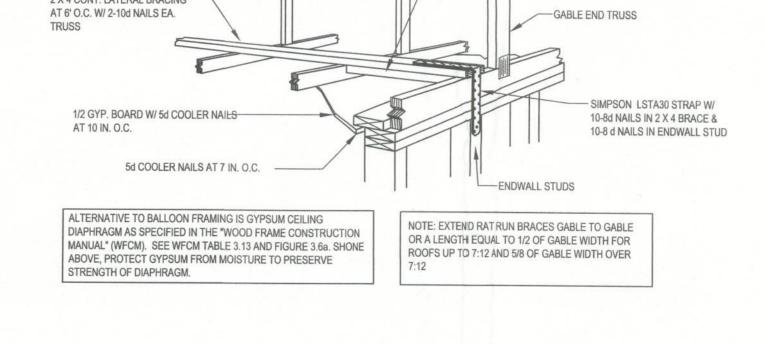
-7/16" STRUCTURAL ROOF 2X4 OUTRIGGER @ 48" OC.-SHEATHING BLOCKING REQUIRED BETWEEN OUTRIGGERS 2X4 BLOCKING @ SHEATHING JOINT 4' FROM GABLE END -2X4 BARGE -RAFTER CONT. HURRICANE 3) .131 X 3 4 2X4 SCAB CONT. TOP--CLIP H-2.5 OR TO BOTTOM EQUAL 48" OC. CHORD@ 8' FROM NOTE: ALL MEMBERS SHALL BE SY -TOP CHORD GABLE OF GABLE END CONT 2X4 SCAB FROM TOP TRUSS DROP 3 TO BOTTOM CHORD @ X-BRACING (PROVIDE 4 - 10d NAILS OR 4 -ADDITIONAL 2X4'S @ .131"x 3.25" TYPICAL AT VERTICAL IF HIGHER THAN ALL CONNECTIONS 48 TO FORM AN "L TOE NAIL TRUSS TO DOUBLE PLATE w/ 16d 2X4 SCAB IF VERT. COM @8" OC. WEB IS NOT PRESENT FBOTTOM CHORD OF GABLE END TRUSS CONT. 2X4X8' #2 SYP LATERAL BRACE @ 48" -(2) - 2X4 TOP PLATE - SIMPSON LSTA 2X4 X-BRACE @ 6'-0" OC.-2X4 BLOCKING @ 48" OC. 24 @ 48" OC. BETWEEN GABLE AND -SEE DETAIL W1 FIRST TRUSS.

W10 - TYPICAL GABLE END (X-BRACING



W23 - GYPSUM CEILING DIAPHRAGM OPTION - GABLE END WALL

is the responsibility of the builder.



1000			NEC;TOR TABLE	connections from this table or	(Wind loads are per FBC 2001, Section 1606.2 fr	or enclosed simple diaphragm buildings with mean roof height	
SST ca	alog to m		asteners; as specified.	connections normalis table of	less than 60' or the least horizontal dimension; no >10% slope.)	ot sited on the upper half of an unobstructed 60' high hill with	
Uplift	Uplift	Truss Connector	To Plate	To Truss / Rafter	Basic Wind Speed	110 MPH	
320	455	H3	4-8d	4-8d	Wind Exposure	В	
245	350	H5A	3-8d	3-8d	Wind Importance Factor 1.0		
535	600	H2.5A	5-8d	5-8d	Building Category	ll ll	
620	720	HIO	6-10dx:11/5"	6-10dx 1½"	Internal pressure Coefficient N/A (Enclosed)		
850	990	LTS12	8-8dx1 1/5"	8-8dx 1½"	Building not in the high velocity hurricane zone		
1245	1450	HTS20	10-10d or 12-10dx11/5"	10-10d or 12-10dx 11/5"	Building not in the wind-borne debris region		
1265	1470	HI6, H16-2	10-10dix11/5"	2-10dx 1½"	Mean Roof Height	< 30 ft	
1785	2050	LGT2	14-10dl Sinker	16-16d Sinker	Roof Angle	10-45 degrees	
3655	4200	MGT	%" Thid. Rod	22-10d	Components And Cladding Wind Pressures (FBC Table1606.2 B&C)		
SPF	SYP	Strap Connector	To One Member	To Other Member	H.	Zone Effective Wind Area (ft2)	
760	885	SP4	6-10dx:1½"	N/A		10 100	
865	1005	CS20	9-8d or 7-10d	9-8d or 7-10d		4 21.8 -23.6 18.5 -20.4	
1085	1265	LSTA18-24	7-10d	7-10d		5 21.8 -29.1 18.5 -22.6	
1170	1360	SPH4	12-10dix1½"	N/A	5	Total Shear Wall Segments	
1420	1650	CS16	14-8d or 11-10d	14-8d or 11-10d	2 2 2 2	5 2'-4"min for 8'-0"H wall 2'-10"min for 10'-0"H wall	
SPF	SYP	Column Anchor	TTo Foundation	To Column / Truss	, ,	Transverse Longitudinal	
1160	1350	LTT19	% "x 166" AB	8-16d Sinkers		Required 31.2' 28.5'	
1985	2310	LTTI31	%"x 166" AB	18-10dx 1½"	100	Actual 84.1' 73.3'	
2385	2775	HD2A	%"x 166" AB	2-%" Bolts	The state of the s	All exterior walls are type II shear walls	
3590	4175	HTT16	%"x 166" AB	18-16d	/2/	ACTUAL SHEAR WALL length is the total	
1975	2300	ABU66	%"x 166" AB	12-16d		of all wall segments with full height	
for each 30 Manufactu can be sub	000 lb of reac rer and produ stituted for a	tion. Check the minimum be act number are listed for exa ny devices listed in the exam	aring requirements of the truss and t mple not erndorsement. An equivaler nple tables: as long as it meets the re	at an extra 2x4 stud under truss bearing location op plate (SPF, Fc=425psi=2230lb/ply), at device of the same or other manufacturer quired load capacities. Manufacturer's directly to the weather shall be hot dipped	5 2 4 3 4	sheathing and width to height ratio greate than 1: 3.5 (plus special shear wall segments if noted.) REQUIRED SHEAR WALL length is from WFCM-2001, table 3.17A & 3.17B with table 3.17E adjustment for type II shear wall (or	

N3-WINDLOAD ENGINEER'S SCOPE OF WORK: The wind load engineer is engineer of record for compliance of the structure to wind load requirements of FBC 2001, Section 1606. If trusses are used, the wind load engineer is not engineer of recordfor the trusses and did not design the trusses or delegate to the truss designer.

BUILDER'S RESPONSIBILITY: The builder and owner are responsible for the following, which are specifically not part of the wind load engineer's scope of work. * Confirm that the foundation design & site conditions meet gravity load requirements (assume 1000 PSF bearing

capacity unless visual observation or soils test proves otherwise * Provide materials and construction techniques, which comply with FBC 2001 requirements for the stated wind velocity and design pressures. * Provide a continuous load path from roof to foundation. If you believe the plan omits a continuous load path

connection, call the wind load engineer immediately. * Verify the truss engineering includes truss design, placement plans, temporary and permanent bracing details, truss-to-truss connections, and load reactions for all bearing locations.

* Select uplift connections, walls, columns, and footings based on truss engineering bearing locations and reactions including interior bearing walls. * Size headers for gravity loads; headers sized by the builder for gravity loads will also satisfy wind loads.

DOCUMENT CONTROL and PRIORITY: Structural requirements on S-1 control unless the building code or architectural sheets have more stringent requirements. Non-structural requirements on architectural sheets control. Specific requirements take precedence over general requirements. Revision control is by the latest signature date and

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of Mark Disosway Stated dimensions supercede scaled dimensions. Refer all questions to Mark Disosway, P.E. for resolution. Do not

proceed without clarification. WINDLOAD ENGINEER: Mark Disosway, PE No.53915

CERTIFICATION: The attached plans and "Windload Engineering", sheet S-1, comply with FBC 2001, Section 1606

LIMITATION: This design is valid for one building, at specified location. This drawing is not valid for construction unless raised seal is affixed.

wind loads, to the best of my knowledge.

WINDLOAD ENGINEERING

"EVERYTHING YOU NEED FOR YOUR BUILDING PERMIT" Mark Disosway P.E.

POB 868, Lake City, FL 32056 Phone: (386) 754-5419

Fax: (386) 754-6749 Email: windloadengineer@bellsouth.net ocation: Columbia County, Florida

Inlow Residence

Builder: Edgley Construction, Inc.

Designer:

Approved: FLPE#53915

Sheet S-1 of 5 Sheets Windload Engineering Job # 408095

REV-06-OCT-03