Mark Disosway, P.E. POB 868, Lake City, FL 32056, Ph 904-754-5419, Fax 904-754-6749

WIND LOAD ENGINEERING - SBC 1997, Section 1606 - 100 MPH Wind Speed - 1.0 Use Factor

FIRST STREET DESIGNS - Teakwood I Model, Eastside Village, Lake City, FL

Reference: Eastside Architectural Drafting & Design, Design Drawings, Dated 10/95

Component	Description	Anchors, Connectors, Reinforcement *					
	alici.	Footings	and Foundation	ns			
Strip footing	20"Wx10"D poured concre	2-#5 bars, continuous					
Concrete block stem wall	8"x8"x16" block, running bond, w/ header block, fully grouted.		#5 vertical dowel at corners and 96"OC max. Dowels w/ std hook in footing and slab.				
Interior footing	16"Wx12"D monolithic, thickened slab		2-#5 bars, continuous (Check truss engineering for interior bearing walls)				
Porch footing	12"Wx12"D monolithic, wi 24"x24"x12"D for columns	2-#5 bars, continuous					
Garage door footing	12"Wx20"D monolithic		2-#5 bars, continuous				
Floor System	4" concrete, poured monolithic with stem wall grout.		6"x6"-10/10 welded wire mesh, overlap slab edge bar. 1-#5 bar, continuous, in slab edge / stem wall header.				
Notes:	2500psi concrete. Grade40 25"lap.	Embedded anchors in poured concrete; see applicable components.					
		Ro	of System	-			
Trusses / Girders	Wood trusses with engineering design provided by truss manufacturer.		Select hurricane clips based on all reactions from truss engineering. Strap rafters to trusses with min uplift 450lb each end.				
	1.	Uplift force, lb.	Top connector - Simpson [≠]		Bottom connector - Simpson [≠]		
		≤ 415	H2.5 415		No special connector required.		
		≤ 905	H10	905	No special conne	ector required.	
		≤ 1205	TS22	1215	LTT19	1205	
		≤ 1750	2-TS22	2430	LTT20B-nail	1750	
		≤ 2430	2-TS22	2430	HD2A-2.5"	2565	
		≤ 3645	3-TS22	3645	HD5A-3"	3705	
Roof sheathing	7/16"OSB perpendicular to w/each row staggered	Nailed to roof framing with 8d common nails 6"OC edges, 12"OC field.					
		Shear V	Wall Segments	-			
Sole plate	PT pine bearing on foundation wall.		Anchor bolts 1/2"-A307, 2"washer, 7"min. embedment, 1st -8"from corner, then 48"OC max.				
Studs	SPF#2 at 16"OC (1-2x4 to 2-2x4 to 13'6", 3-2x4 to 15 to 17'3", 2-2x6 to 21'6").	Sheathing nailing alone is adequate for uplift. 8d nails 4"OC top, 8d nails 4"OC bottom					

CERTIFICATION:

I hereby certify that the accompanying Wind Load Analysis for FIRST STREET DESIGNS - Teakwood I Model, Eastside Village, Lake City, FL demonstrates compliance with SBCCI "Standard Building Code", Section 1606 at a the best of my knowledge.

Project No. 00195

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Component	Description		Anchors, Connectors, Reinforcement *				
Double top plate	2 - 2x4 (or 2x6) SPF No.18	Overlap splices 4'; nail splice with 2-16d common nails 12"OC.					
Sheathing	7/16"OSB, 48"W placed ve continuous from top plate t Block all joints.	8d common nails, 4"OC top, 4"OC bot, 4"OC edge, 8"OC field. (OSB must cover top plate or use LSTA9 at 32"OC.)					
		Ot	ther walls				
Exterior walls	Same as shear walls.	Same as shear walls.					
Interior load bearing walls	2x4 SPF No.1&2 at 16"OC, PT pine sole plate. (Check truss engineering for interior bearing walls.)		SP2 top and SP1 bottom of stud 32"OC provides 265lb uplift per lineal foot of wall (for up to 485 lb/ft apply SP1&2 16"OC). Anchor bolts, 1/2"-A307, 2"washer, 7"embedment, 6"from ends, then 48"OC.				
Gable end wall	Balloon frame gable end walls (see detail)						
Headers	Header design per SBC.		Select connectors for top and bottom of header studs based on truss manufacturer's engineered uplift reactions. (Example connectors table below.)				
	To determine uplift at each end of header: Total	Uplift force, lb.	Top connector - Simpson [≠]		Bottom connector - Simpson [≠]		
	uplifts for all trusses bearing on header; Divide by 2. (Subtract 120lb from top for each 16d end nailed into header. Subtract 60lb from bottom for each 16d toe nailed into plate.)	≤ 455	LSTA9	605	НЗ	455	
		≤ 755	LSTA12	755	2-H3	910	
		≤ 1055	LSTA18	1055	LTT19	1205	
		≤ 1510	2-LSTA12	1510	LTT20B-nail	1750	
		≤ 2110	2-LSTA18	2110	HD2A-2.5"	2565	
		≤ 2775	3-LSTA18	3165	HD2A-3.5"	2775	
Cripples	2x4 SPF No.1&2 W/ 7/16"0	Sheathing nailing alone is adequate for uplift. 8d common nails 4"OC.					

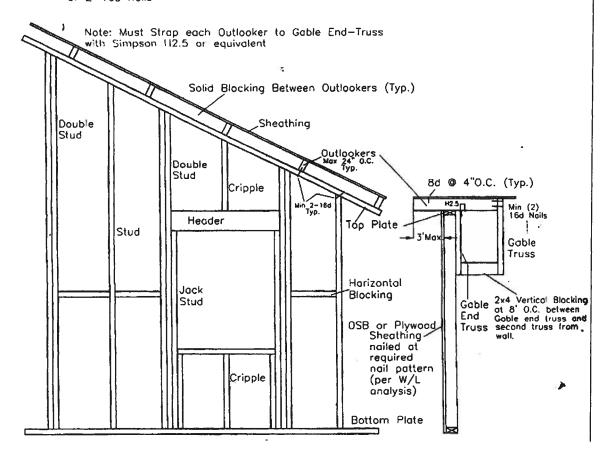
^{*} Manufacturer and product number for connectors, anchors, and reinforcement are listed for example not endorsement. An equivalent device of the same or other manufacturer can be substituted for any devices listed in the example tables as long as it meets the required load capacities.

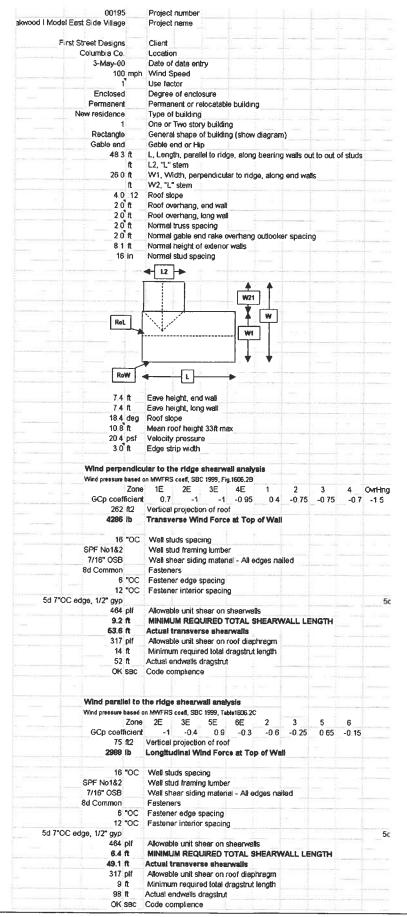
Note: This report establishes the minimum requirements for wind load stability. It is the owner/builder's responsibility to provide materials and construction techniques, which comply with SBC requirements for the stated wind velocity.

It is the builder's responsibility to provide a continuous load path from trusses to foundation.

Acceptable Framing Method for Balloon Framed Gable End-Wall

Blocking must be parallel to top and bottom plates with a minimum of $2\!-\!16d$ nails





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