Wind Load Analysis and Certification Johnson Residence by Red Door Homes

2020 Florida Building Code section 1609 according to ASCE 7-16 Ultimate Design Wind Speed (Vult) = 130 MPH (3 second gust) Nominal Design Wind Speed (Vasd)) = 101 MPH Risk Category = II

Exposure Category = B, Enclosed Building
Applicable Internal Pressure Coefficient = .18

Design Wind Pressure for use of External Components (Components and Cladding)= +32.1psf, -43.3psf



Roof Decking

7/16" OSB or ½", 5/8" or ¾" CDX Decking; 48"x96" Sheets, Perpendicular to Roof Framing Members 8d common (.131" dia) or 8d ring-shank (.113' dia.) nails at 4" O.C. on Ends, 8" O.C. in Interior Trusses or Rafters at 2' O.C. (horizontal distance), No Intermediate Blocking Required Rafters: 2x6 SYP #2 up to 10' horizontal span, 2x8 SYP #2 up to 14' horizontal span

Shear Wall Segments

7/16" OSB or 1/2" CDX plywood, 48" Wide Sheets - Sheathing Continuous from Top Plate down to Pressure Treated Sole Plate Bearing on Foundation.

8d common (.131" dia) nails at 3" O.C. on Edges and Ends, 8" O.C. in Interior

Transverse Shearwall = 40', Longitudinal Shearwall = 26'

2x4 SPF (No. 1&2) Studs at 16" O.C., up to 12' wall height

or: 2x6 SPF (No. 1&2) Studs at 16" O.C., up to 17' wall height

See attached detail for stud and jack requirements for wall openings

Nail Together Double Top Plate 6" O.C. w/12-d Common Nails (SYP top plates) Other Wall Segments - Same as Shear Walls

Gabled End Wall Framing

Balloon Frame (see detail) or see attached alternate detail.

T-Block (with 2x4's) bottom chord of porch gable trusses at 4' O.C to 4' from gable end-truss

Special Notes: Must sheath rear porch ceiling with ½" CDX plywood and nail with 8d common (.131" dia) nails at 4" O.C. on Ends, 8" O.C. in Interior. All headers and beams to be double 2x12 SP#2.

Footings and Foundations (Based on Truss Engineering)

20" deep x 14" wide monolithic with 2-#5's, Continuous, 3000 psi Concrete

or: 20" Wide x 10" Deep 3000 psi Concrete Strip Footing with 2-#5's, Continuous

8"x8"x16" Concrete Masonry Stemwall, Minimum 2 Courses, Maximum 4 Courses, Fully Grouted, except sections over 3 courses need only cells with rebar to be grouted. 1-#5 Vertical Dowel at Corners and 6'-0" O.C. (10" hook top and bottom) (min 25" lap all #5 rebar) (1) #5 continuous top course. All 4" slabs requires 6x6 WWM

Interior footers: 16" wide by 10" deep (including 4" slab) with 2-#5's, Continuous,

Porch Footers: 16" deep x 14" wide monolithic with 2-#5's, Continuous or see above or: 8" wide by 8" deep bell footing with 1-#5, Continuous with minimum of 30"x30" x 15" pad under each post (w/ 3-#5 each way)

Note: footer design based on continuous bearing. Footers (grade beams) for pier foundation systems must be designed by pier foundation subcontractor. Movement – The information presented in this document is not calculated or intended for the use or purpose of mitigating or addressing unsuitable soils or subsurface conditions in any way or manner, whatsoever.

Hurricane-Resistance Hardware (Based on Truss Engineering) Truss Clips/Headers/Girders/Posts/Beams /Top and Bottom of Wall Unit - See Table Anchor Bolts-1/2"Dia, x 10" J Bolts (with min 8" embedment) at 48"O.C. (First bolt at 9" from Corner, then 48" O.C.) and at each end of Each Opening (2" round or square washers).

I hereby certify that the accompanying Wind Load Analysis for the Johnson Residence, demonstrates compliance with the 2020 FBC section 1609 according to ASCE 7-16, to the best of my knowledge.

> Frank J. Sapienza Jr. License Professional Engineer Florida License Number 48566

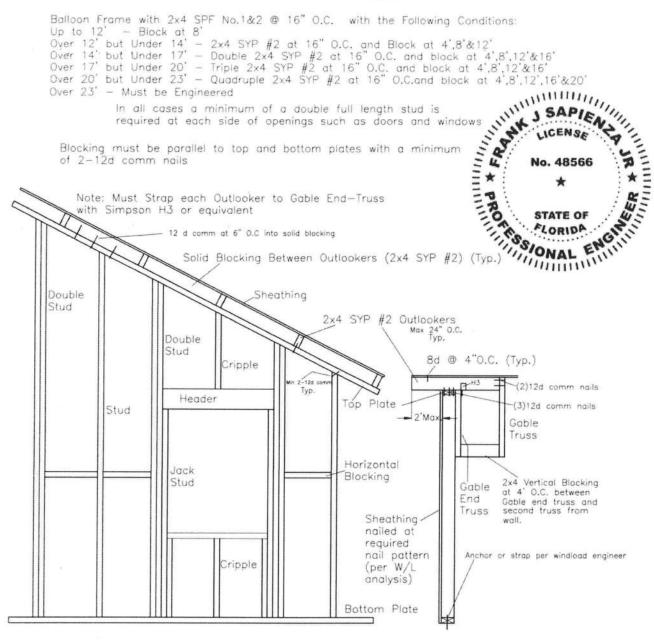
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Frank J Frank J Sapienza Sapienza Jr Date: 2021.01.11 Digitally signed by Frank J Sapienza Jr

Wood Sections	Uplift				
	Force	Top Connector		Bottom Connector	Rating
UEADEDO	Lbs	Simpson **	Lbs	Simpson **	Lbs
HEADERS	to be AEC lba	LOTAG	775	-110	455
	up to 455 lbs	The state of the s	775	H3	455
	up to 910 lbs	LSTA12 LSTA18	970	2-H3	910
	up to 1235 lbs	2-LSTA12	1235	LTT19	1350
	up to 1750 lbs		1940	LTT20	1750
	up to 2470 lbs	2-LSTA18 3-LSTA18	2470	HD2A-2.5	2565
	up to 2775 lbs		3705 3705	HD2A-3.5	2775
To determine unlift force or	up to 3705 lbs			HD5A-3	3705
To determine uplift force or (assumes uniform load)					
assumes uniform load)	Note. must t	use proper boil an	iciiois sui	fficient to support requi	ired load
Trusses/Girders - Uplift					
	use H2.5A top, no s	necial device requ	ired at ho	ottom	
	ut under 990 lbs use			required at bottom	11111111111111111111111111111111111111
	use TS22 or equivale				J SAPIE "
	use 2-TS22 or equive			ottom	ICENSE Z
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	use 3-TS22 or equiva				No. 48566
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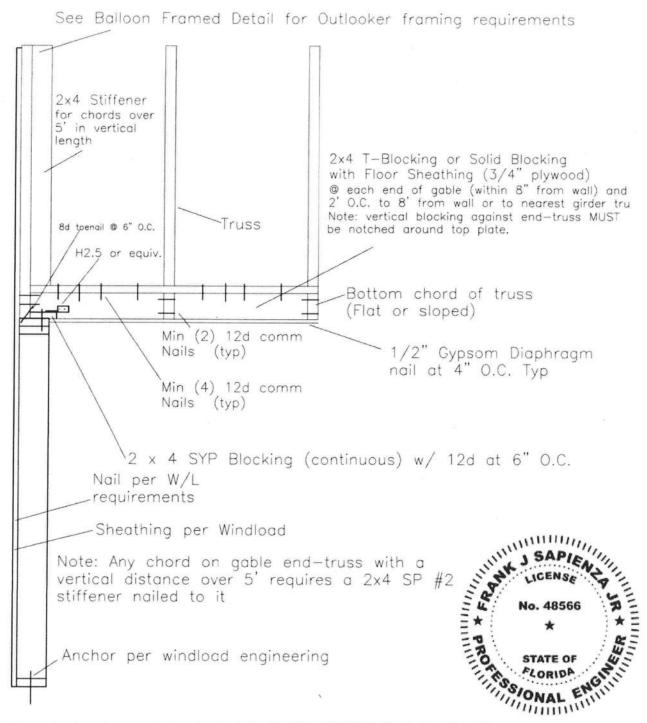
Acceptable Framing Method for Balloon Framed Gable End-Wall with trusses



F. Sapienza, P.E.

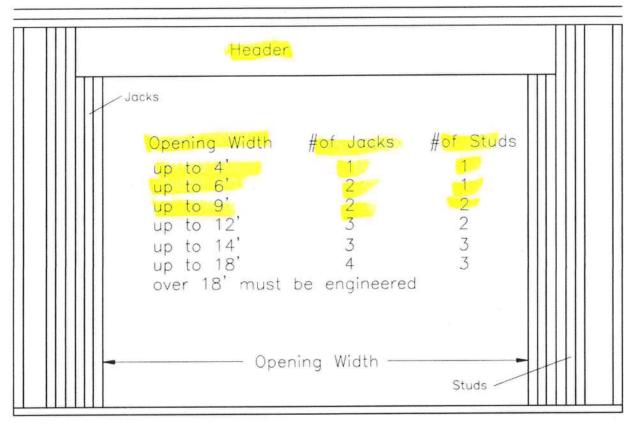
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Gable Endwall Framing with Gable End-Truss



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Number of Jack and Stud Requirements per Opening Width 2x4 or 2x6 SPF #1&2 Construction — max Wall Height=12' (based on 16" O.C. Stud Spacing)



Note — Based on uniform loads. Heavy concentrated loads require engineering review

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