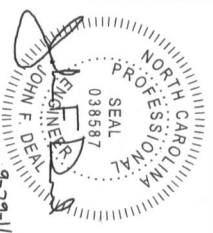




Company Licence # P-1011 PO Box 31091, Raleigh, NC 27622  
 (919) 880-6958 John@On-SiteResidentialEngineering.com

# ON-SITE Residential Engineering



The purpose of this project is to provide structural plans for a new Deck and Sunroom at the back of the residence. This structural plan is based on the site observations by John F. Deal, PE on September 27, 2016. The Engineer's seal applies only to structural items specifically shown on this plan.

PROJECT 16-293  
 LOCATION 73 Saddlebrook Drive, Fuquay  
 CLIENT Champion  
 CONTACT psmith@getchampion.com  
 DATE September 29, 2016

PAGE 1/2

DESIGN LOADS	
LIVE LOADS	100 mph
WIND SPEED	75'
WIND EXPOSURE	B'
SEISMIC DESIGN CATEGORY	40 psf
DECKS AND BALCONIES	20 psf
ROOF	
LIVE LOAD DEFLECTION LIMITS	
RAFTERS	L/240
FLOORS	L/360
BEAMS	L/480
DEAD LOADS	
FLOOR / CEILING	10 psf
ROOF	7 psf

### FOUNDATION STRUCTURAL NOTES

- 1) ASSUMED SOIL BEARING CAPACITY IS 2,000 psf. IF UNSUITABLE SOILS ARE ENCOUNTERED, PLEASE CONTACT ON-SITE RESIDENTIAL ENGINEERING FOR RE-EVALUATION.
- 2) CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3,000 psi. INTERIOR SLABS MAY HAVE A COMPRESSIVE STRENGTH OF 2,500 psi. CONCRETE EXPOSED TO WEATHER SHALL BE AIR-ENTRAINMENT BETWEEN 5% AND 7%.
- 3) THE BOTTOM OF FOOTINGS SHALL EXTEND 12" BELOW THE GROUND SURFACE.

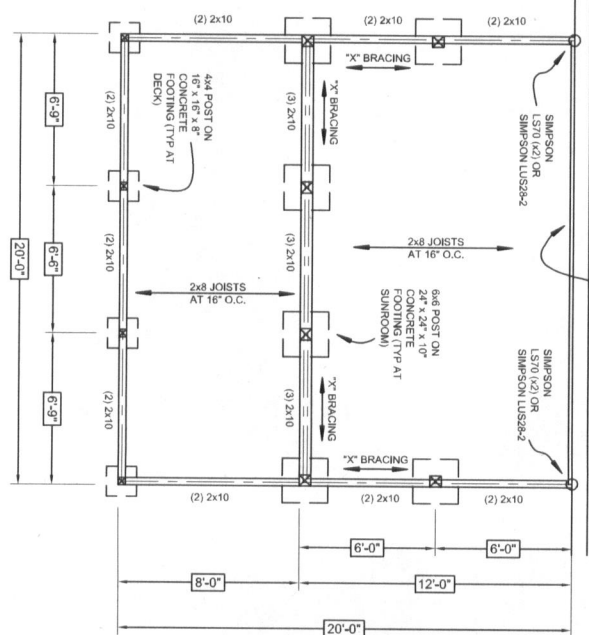
### FLOOR FRAMING STRUCTURAL NOTES

- 1) FLOOR FRAMING SHALL BE SPRUCE-PINE-FIR #2 UNLESS OTHERWISE NOTED OR REQUIRED PER R317.1.
- 2) STRUCTURAL FLOOR MEMBERS SHALL NOT BE DRILLED OR NOTCHED IN EXCESS OF THE LIMITATIONS SPECIFIED IN R502.8, FIGURE R502.8 AND R502.8(a).
- 3) WOOD STRUCTURAL PANELS USED FOR SUBFLOOR SHALL BE A MINIMUM 1/2" THICK FOR 16" O.C. JOIST SPACING AND 5/8" THICK FOR 19.2" O.C. JOIST SPACING.

HARNETT COUNTY CENTRAL PERMITTING APPLICATION # 16050059587  
 JOB NAME Champion Wood Deck  
 DATE PLANS RECEIVED 9-29-16  
 SITE PLANS APPROVED 9-30-16  
 APPROVED BY KS

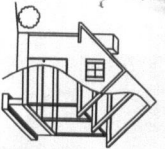
THE BRACING SHOWN IS TO BE INSTALLED PER R317.1 AND (2) 1/2" BOLTS PER CONNECTION.  
 FITTING GIBBS TO POST AND POST TO FOOTING WITH GENERAL APPROVAL. CONNECTION - POST CAP / BASE / STRAP.

REQUIRED LOCATIONS FOR PRESERVATIVE-TREATED LUMBER GIVEN IN R317.1. CONNECTORS FOR PRESERVATIVE-TREATED LUMBER SHALL BE HOT-DIPPEL GALVANIZED OR OTHER PER R317.1.3.1



FOUNDATION STRUCTURAL PLAN  
 SCALE: 3/16" = 1'-0"

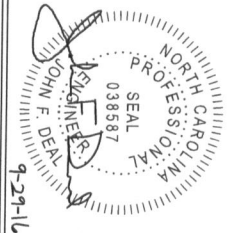
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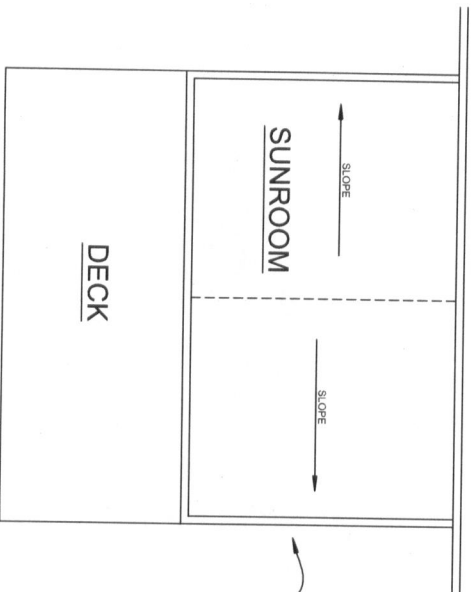
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# ON-SITE Residential Engineering



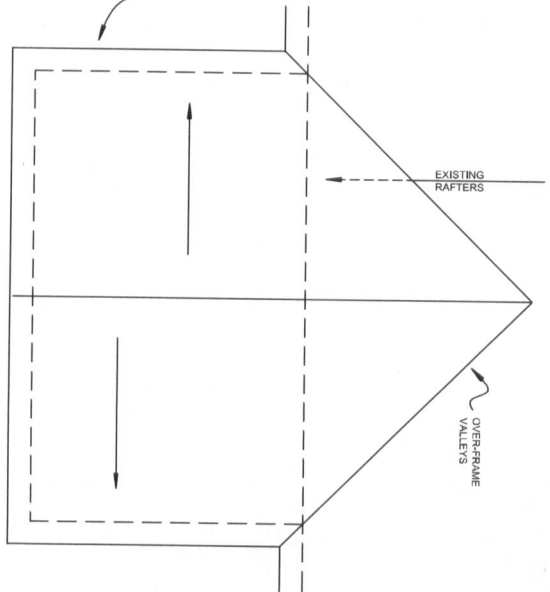
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PROJECT	16-293
LOCATION	73 Saddlebrook Drive, Fuquay
CLIENT	Champion
CONTACT	psmith@getchampion.com
DATE	September 29, 2016



FIRST FLOOR LAYOUT  
SCALE: 3/16" = 1'-0"

ALUMINUM ROOM / GLASS ENCLOSURE BY CHAMPION



ROOF LAYOUT  
SCALE: 3/16" = 1'-0"

**Donna Johnson**

---

**From:** Smith,Princess <psmith@GetChampion.com>  
**Sent:** Thursday, September 29, 2016 3:44 PM  
**To:** Donna Johnson  
**Subject:** Application: 165-003-9587  
**Attachments:** 16-293 - Saddlebrook - Structural.pdf

Hello Ms. Johnson,

thank you for your help. Attached is the last document needed for permit approval.

**Princess Smith**

Coordinator  
Champion Window Company of Raleigh/Durham  
Phone: 919.460.6632  
Fax: 919.388.7252  
[www.championfactorydirect.com](http://www.championfactorydirect.com)



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