

John Alexander McRae, P.E., Inc. (NC C-2298)
218 Coley Farms Road Fuquay-Varina NC
P O Box 1466 Apex, North Carolina, 27502
(919) 210-5749 jampe86@gmail.com

05 NOVEMBER 2025

To: Whom It May Concern ;

Re: Addition Deck/Porch 144 PAPER BIRCH WAY

Permit #BRES2510-0014

JAMPE Job Number 2511-05

The following design and recommendation is based on the latest edition of the North Carolina Residential Code and any local codes that may be in effect at the time of this letter.

Live Loads: Roof/Limited Storage- 20 psf Upper Floors- 40 psf Main floors- 40 psf
Dead loads as applicable. Allowable Soil Pressure- 2000psf Wind load- 27 psf.
Allowable Stress: #2 SPF- 875 psi #2 SYP- 1050 psi LVL- 2900 psi

Builder has requested verification of the following Deck/Porch Construction as Based on **On-Site Review** and:
Review of Framing and Live load verification on-site at 05 NOVEMBER 2025. Design is to NC Residential Code 2018 Chapter 4 R401.4 (Soils Testing) and R403.1 (Footings) Five R502.1.1 (Sawn Lumber), and Tables R502.3.1(1) and R502.3.1(2); Chapter 6 R602.3 (Design and Construction) and R602.7 Headers and approved plans as Third-Party Reviewer AND
Prescriptive Residential Wood Deck Construction Guide DCA6 by American Wood Council

- **LEDGER TO BE NAILED with 12d Nails @ Maximum Four inches on center**
- **ACTION REQUIRED COMPLETE PHOTOS AVAILABLE ON REQUEST**

11/5/25

Ceiling Joists are OVERNOTCHED

$12/2 \times 20+10 \times 16/12 = 240\text{lbs} / 6 = 40\text{psi} < 70\text{psi}$; Okay

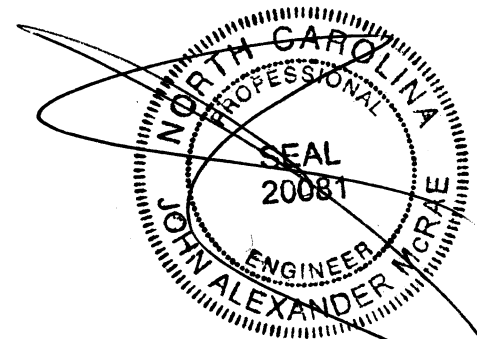
Okay, NO Remedial Action Required

Ledger Loks Sufficient for Expected Loads and Conditions for Band Attachment at House
OKAY, NO Remedial Action Required

Respectfully,

John A. McRae
NCPE 20081 (NC C-2298)

Questions or Comments John A McRae jampe86@gmail.com
Design and Soils Evaluation is to 2018 North Carolina Residential Code



20081
5 Nov
2025