

***THIS STRUCTURAL PLAN HAS BEEN
DESIGNED TO MEET THE INTENT OF THE
NC RESIDENTIAL CODE, 2018 EDITION***

2018 NC RESIDENTIAL CODE
DESIGN LOADS

WIND SPEED	120 mph
WIND EXPOSURE	"B"
SEISMIC DESIGN CATEGORY	"B"
FLOOR	40 / 10 psf
STAIRS	40 / 10 psf

ALL STRUCTURAL MEMBER SIZES SHOWN ARE MINIMUMS. SIZES MAY BE INCREASED BY THE BUILDER IF PREFERRED AND ANY SIZE INCREASES ARE STRUCTURALLY ALLOWABLE FOR THIS PLAN.

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-ENTRAINED 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 TREATED SYP #2 UNLESS OTHERWISE NOTED
- 2)

STRUCTURAL FLOOR MEMBERS SHALL NOT BE DRILLED OR NOTCHED IN EXCESS OF THE LIMITATIONS SPECIFIED IN R502.8
- 3)

FLOOR DECKING IS PER APPENDIX "M" SECTION AM107



ON-SITE
Residential Engineering

Company Licence # P-1011
(919) 880-6958

PO Box 31091, Raleigh, NC 27622
John@On-SiteResidentialEngineering.com



The purpose of this structural engineering project is to design a new Deck at the residence. The Engineer's seal applies only to structural items specifically shown on this plan.

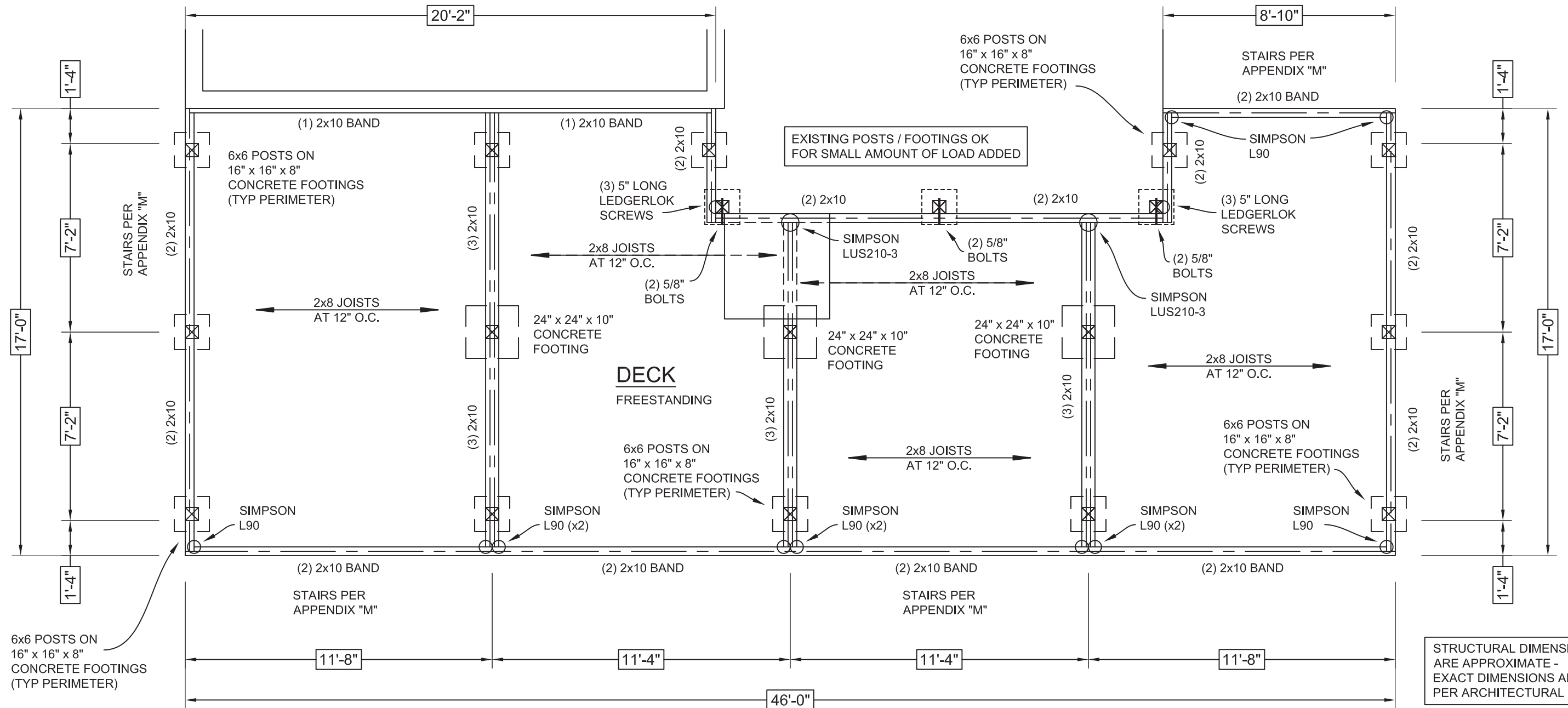
PROJECT 25-100-A
LOCATION 104 Yates Mill Drive, Fuquay Varina
CLIENT Mosko Roofing and Construction
CONTACT tyler@moskolawnandhomenc.com
DATE May 5, 2025

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REQUIRED LOCATIONS FOR PRESERVATIVE-TREATED LUMBER GIVEN IN R317.1.
CONNECTORS FOR PRESERVATIVE-TREATED LUMBER SHALL BE HOT-DIPPED GALVANIZED OR OTHER PER R317.3.1

ATTACH FLUSH GIRDERS TO SUPPORT POSTS WITH (2) 6" LONG TIMBERLOK SCREWS PER POST, INSTALLED IN A TOE-NAILED POSITION FROM THE TOP OF THE POST, UP INTO THE BOTTOM OF THE GIRDER

DECK FLOOR IS TO BE LESS THAN 30" ABOVE GRADE - POST BRACING NOT REQUIRED



FOUNDATION STRUCTURAL PLAN

SCALE: 1/4" = 1'-0"

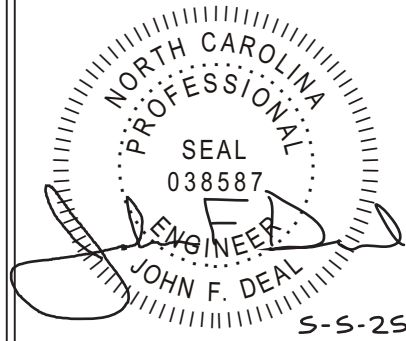


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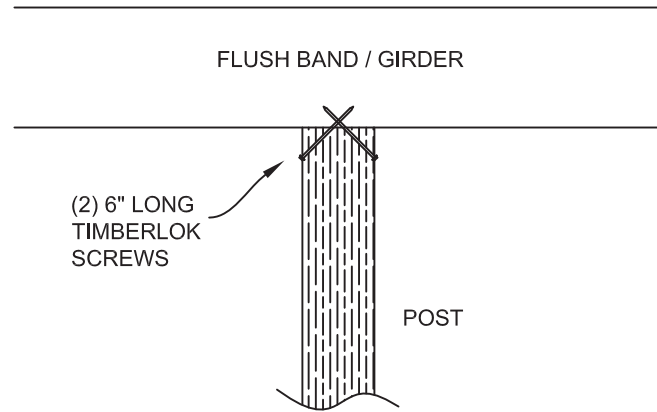
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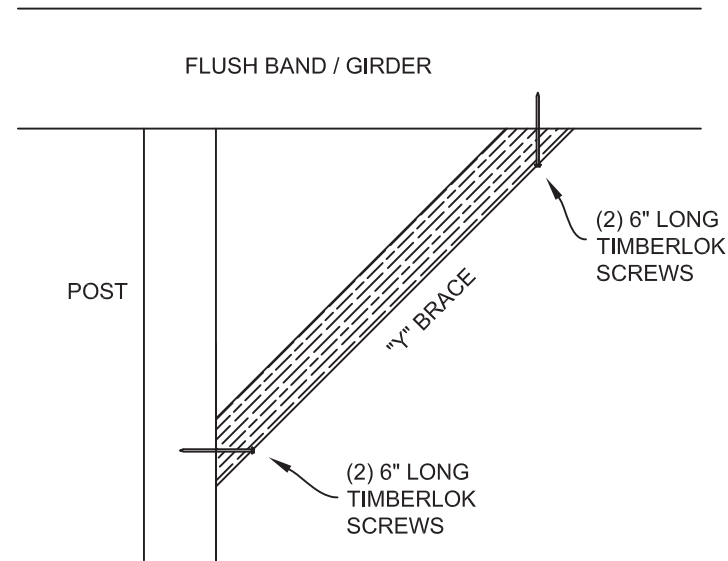
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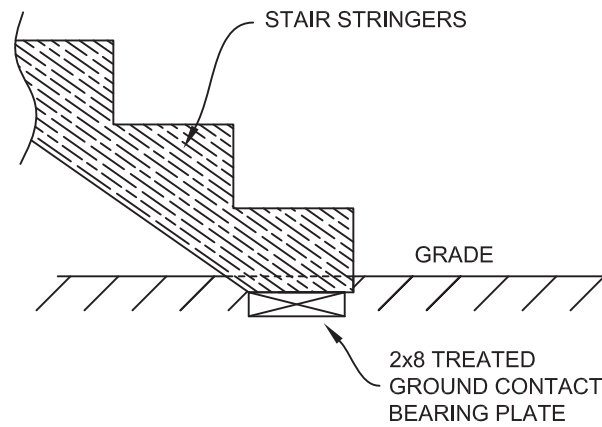
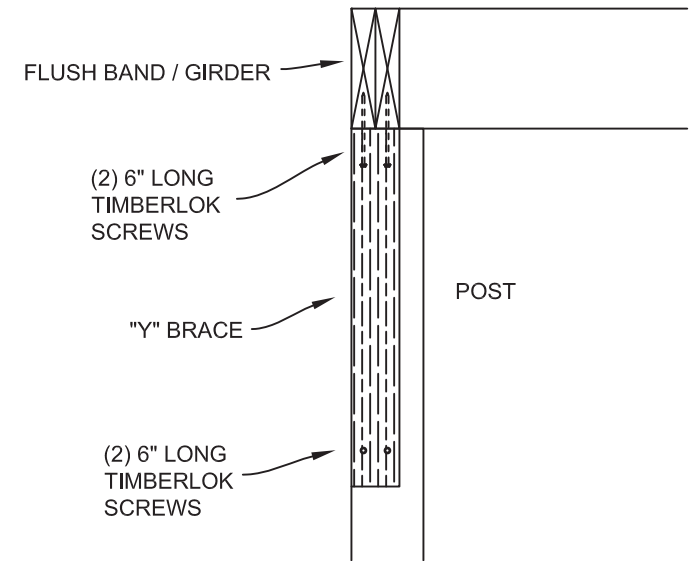
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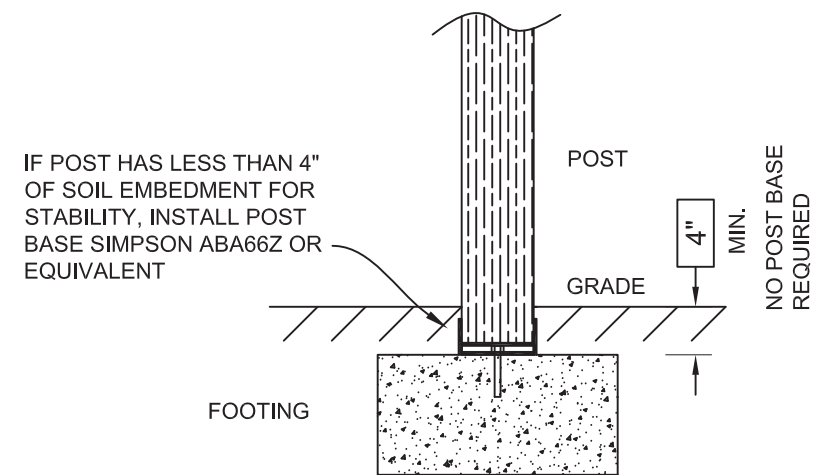
FLUSH GIRDER
POST ATTACHMENT: TIMBERLOK



"Y" BRACE ATTACHMENT: TIMBERLOK
(IF OVER 30" FLOOR HEIGHT FOR FREESTANDING)



STAIR BEARING PLATE



FOUNDATION LEVEL POST
ATTACHMENT: NONE / ABA66Z