

***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)

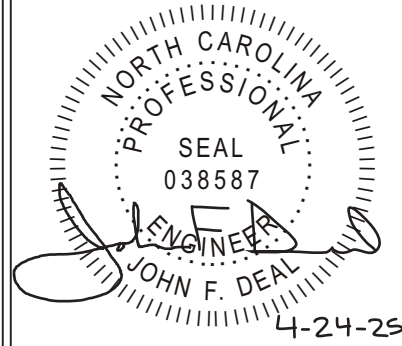
FLOOR DECKING IS PER APPENDIX "M" SECTION AM107



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
LOCATION	104 Yates Mill Drive, Fuquay Varina
CLIENT	Mosko Roofing and Construction
CONTACT	tyler@moskolawnandhomenc.com
DATE	April 24, 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

BRACING SHOWN IS ONLY FOR DECK FLOORS OVER 30" TALL FOR FREESTANDING DECKS. IF LESS THAN 30" TALL, THE BRACING SHOWN MAY BE OMITTED.

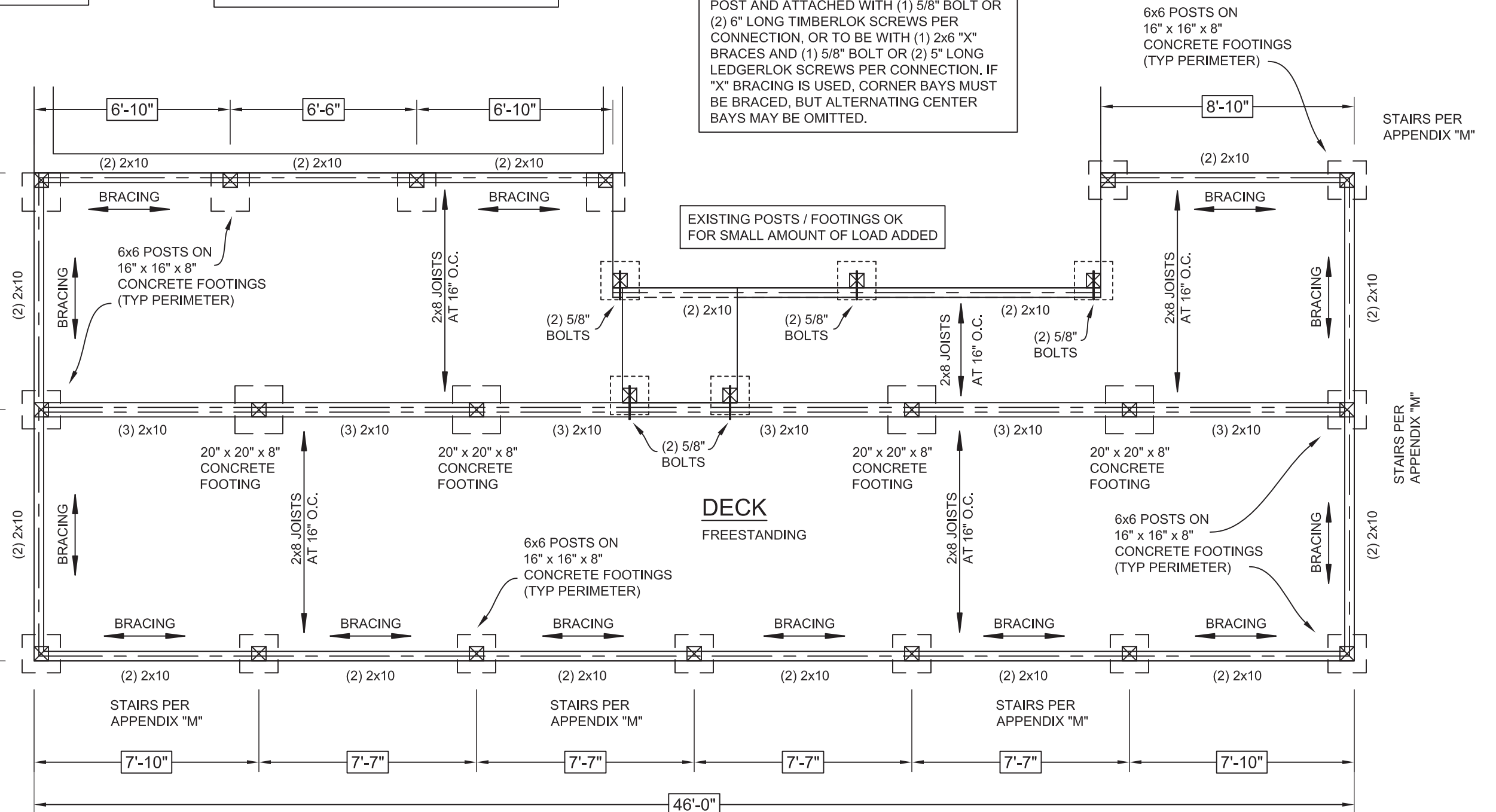
BRACING IS EITHER TO BE WITH 4x4 "Y" BRACES PLACED 1/3 OF THE POST HEIGHT (MINIMUM) DOWN FROM THE TOP OF THE POST AND ATTACHED WITH (1) 5/8" BOLT OR (2) 6" LONG TIMBERLOK SCREWS PER CONNECTION, OR TO BE WITH (1) 2x6 "X" BRACES AND (1) 5/8" BOLT OR (2) 5" LONG LEDGERLOK SCREWS PER CONNECTION. IF "X" BRACING IS USED, CORNER BAYS MUST BE BRACED, BUT ALTERNATING CENTER BAYS MAY BE OMITTED.

EXISTING POSTS / FOOTINGS OK FOR SMALL AMOUNT OF LOAD ADDED

STRUCTURAL DIMENSIONS ARE APPROXIMATE - EXACT DIMENSIONS ARE PER ARCHITECTURAL PLAN

**FOUNDATION  
STRUCTURAL PLAN**

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



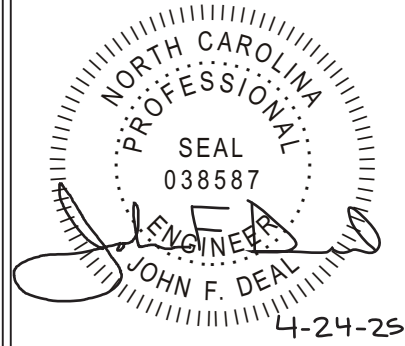


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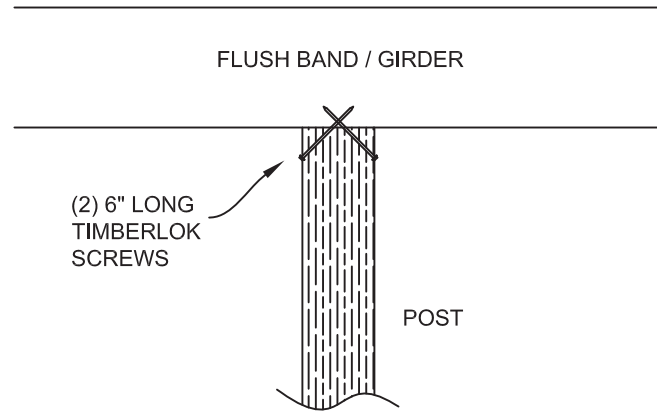
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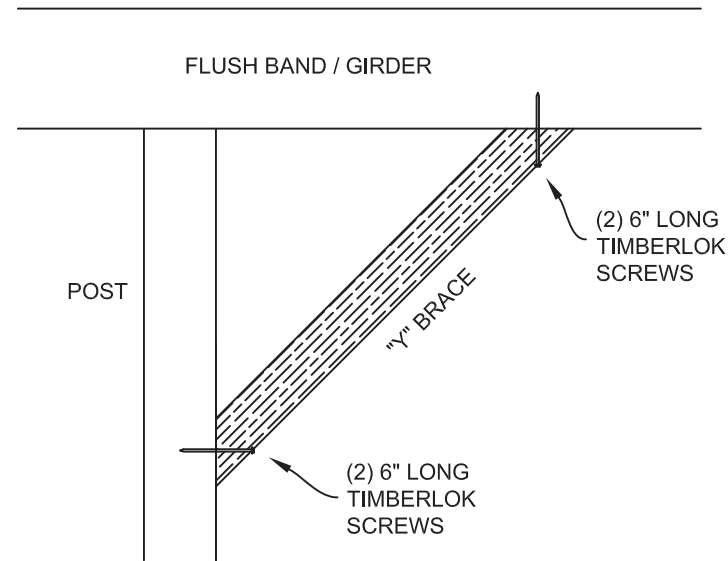
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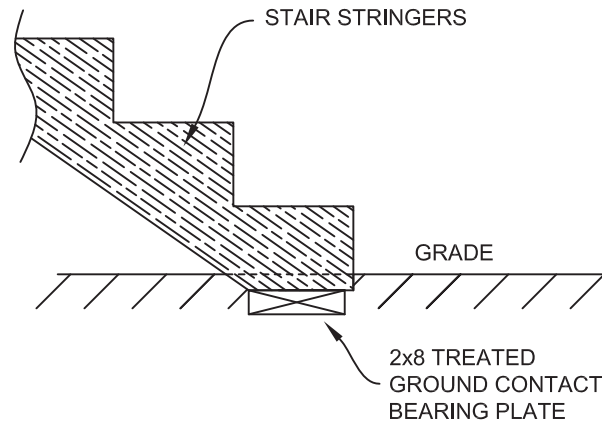
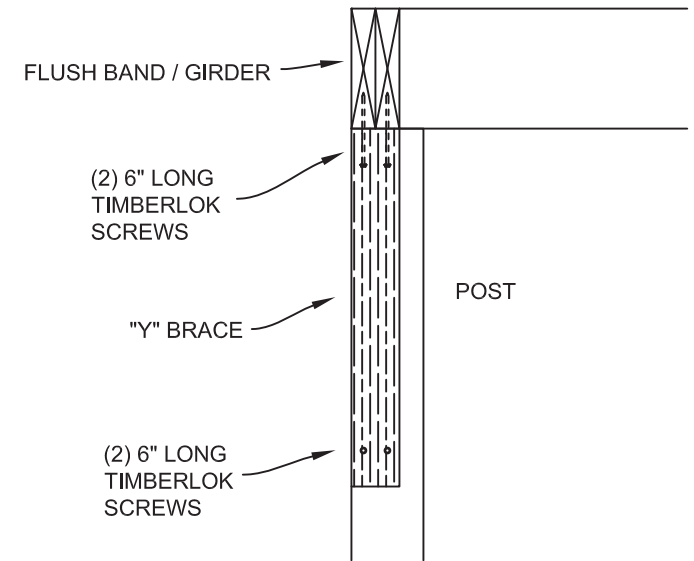
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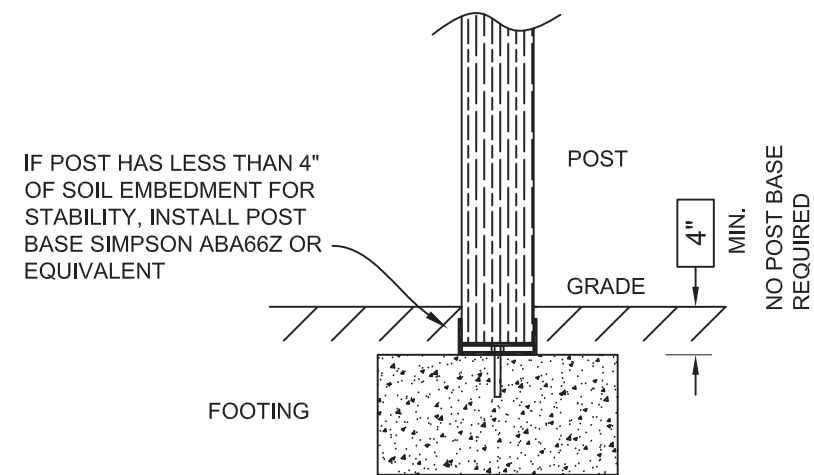
FLUSH GIRDER  
POST ATTACHMENT: TIMBERLOK



"Y" BRACE ATTACHMENT: TIMBERLOK



STAIR BEARING PLATE



FOUNDATION LEVEL POST  
ATTACHMENT: NONE / ABA66Z