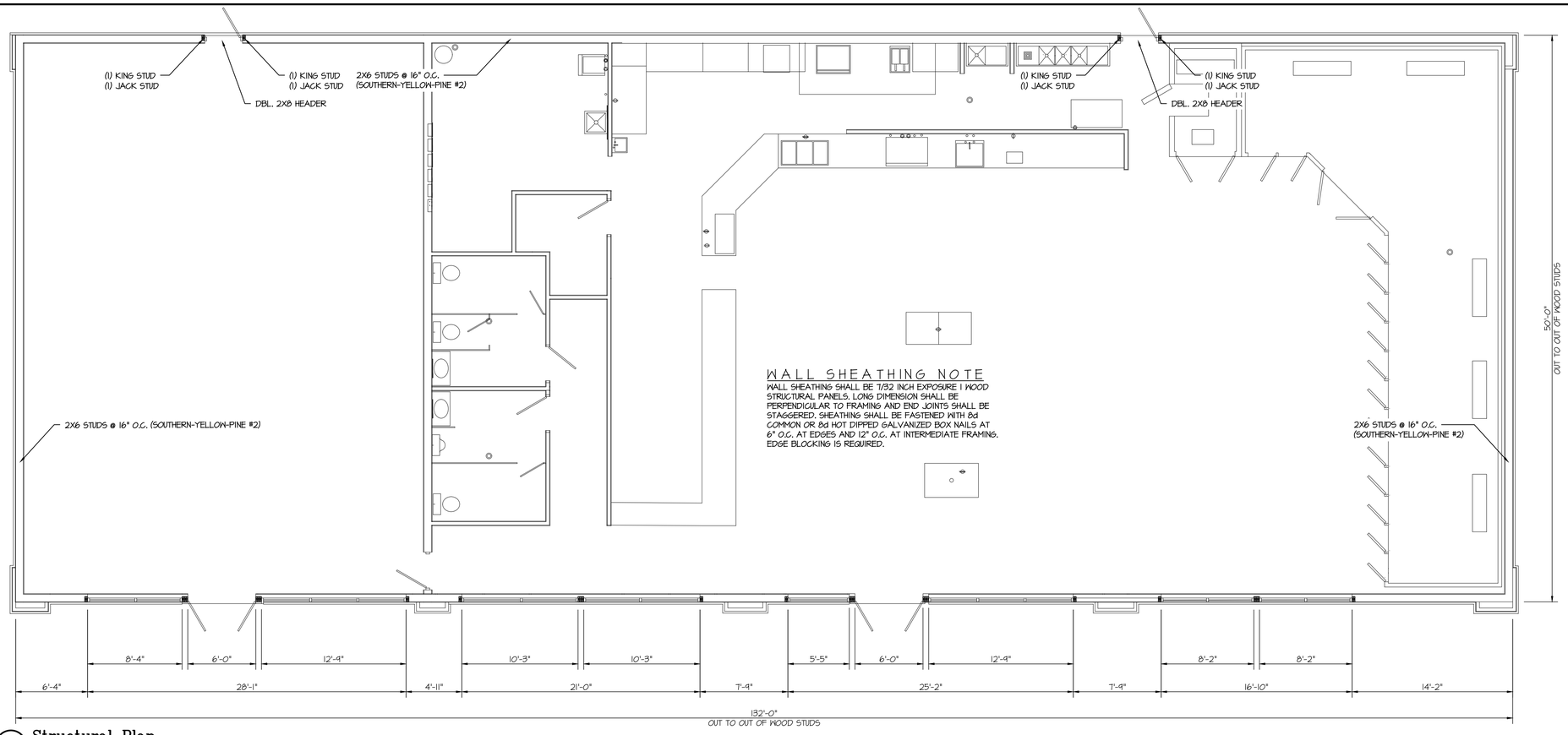
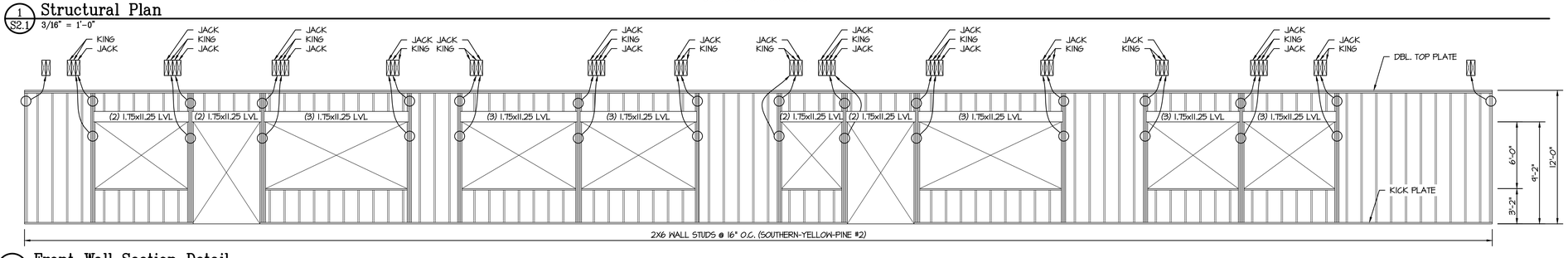


WALL SHEATHING NOTE

WALL SHEATHING SHALL BE 7/32 INCH EXPOSURE 1 WOOD STRUCTURAL PANELS. LONG DIMENSION SHALL BE PERPENDICULAR TO FRAMING AND END JOINTS SHALL BE STAGGERED. SHEATHING SHALL BE FASTENED WITH 8d COMMON OR 8d HOT DIPPED GALVANIZED BOX NAILS AT 6" O.C. AT EDGES AND 12" O.C. AT INTERMEDIATE FRAMING. EDGE BLOCKING IS REQUIRED.

1 S2.1 Structural Plan

3/16" = 1'-0"



2 S2.1 Front Wall Section Detail

3/16" = 1'-0"

STRUCTURAL DESIGN

DESIGN LOADS:

Importance Factors:
Snow (Is): 1.0
Seismic (Ie): 1.0

Live Loads:
Roof: 20 psf
Mezzanine: N/A psf
Floor: 100 psf

Ground Snow Load: 15 psf

Wind Load: Ultimate Wind Speed: 116 mph (ASCE-7)
Exposure Category C

SEISMIC DESIGN CATEGORY ☐ A ☐ B ■ C ☐ D

Provide the following Seismic Design Parameters:

Risk Category (Table 1604.5) ☐ I ■ II ☐ III ☐ IV

Spectral Response Acceleration S_s 17.40 %g S_1 8.30 %g

Site Classification (ASCE 7) ☐ A ☐ B ☐ C ■ D ☐ E ☐ F

Data Source: ☐ Field Test ■ Presumptive ☐ Historical Data

Basic structural system (check one):

■ Bearing Wall ☐ Dual w/Special Moment Frame
☐ Building Frame ☐ Dual w/Intermediate R/C or Special Steel
☐ Moment Frame ☐ Inverted Pendulum

Analysis Procedure: ■ Simplified ☐ Equivalent Lateral Force ☐ Dynamic

Architectural, Mechanical, Components anchored? ☐ No ☐ Yes

LATERAL DESIGN CONTROL: ☐ Earthquake ■ Wind

SOIL BEARING CAPACITIES:
Field Test (provide copy of test report) _____ psf
Presumptive Bearing Capacity See Original Plan psf
Pile size, type, and capacity _____

ROOF LOADING

DEAD LOAD	20 psf	LIVE LOAD	20 psf

Champs Convenience Store
Fuquay-Varina, NC

STRUCTURAL PLAN, NOTE AND SECTION

REVISIONS:

REVISIONS:

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NSE

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 18311 ENGINEER NEAL E SMITH 10/08/24

Digitally signed by Neal Smith, PE
Date: 2024.10.08 10:27:53 -04'00'

RELEASED for CONSTRUCTION

DRAWN BY: BKB
DATE: 10/08/24
JOB NUMBER: 2400550
DRAWING KEY: S2.1

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