Codes and Loads
WHEN MULTIPLE BUILDINGS ARE INVOLVED, SPECIFIC LOAD FACTORS FOR DIFFERING OCCUPANCIES, BUILDING DIMENSIONS, HEIGHTS, FRAMING SYSTEMS, ROOF SLOPES, ETC., MAY RESULT IN DIFFERENT LOAD APPLICATION FACTORS THAN INDICATED BELOW. SEE CALCULATIONS FOR FURTHER DETAILS. WIND LOADS ARE APPLIED TO OVERALL BUILDING ENVELOPE. COMMON WALLS BETWEEN CONNECTED SHAPES ARE NOT SUBJECT TO EXTERNAL WIND LOADS.
City: Varnell County: Whitfield State: Georgia Country: United States

Building Code
Building Code: 2018 International Building Code
Building Risk/Occupancy Category: II (Standard Occupancy Structure)
Structural: 16AISC - ASD Rainfall: I: 7.00 inches per hour
Cold Form: 16AISI - ASD f'c: 3000.00 psi Concrete

Dead and Collateral Loads
Collateral Gravity:2.50 psf (full roof area)
Collateral Gravity:2.00 psf (showroom area)

Material Dead Weight
Roof Covering + Second. Dead Load: Varies
Frame Weight (assumed for seismic):2.50 psf

Roof Live Load
Roof Live Load: 20.00 psf Reducible

Wind Load
Wind Speed: Vult: 106.00 (Vasd: 82.11) mph
The 'Envelope Procedure' is Used - User Modified
Primaries Wind Exposure: C - Kz: 0.849
Parts Wind Exposure Factor: 0.849
Wind Enclosure: Enclosed
Topographic Factor: Kzt: 1.0000
Ground Elevation Factor: Ke: 1.0000

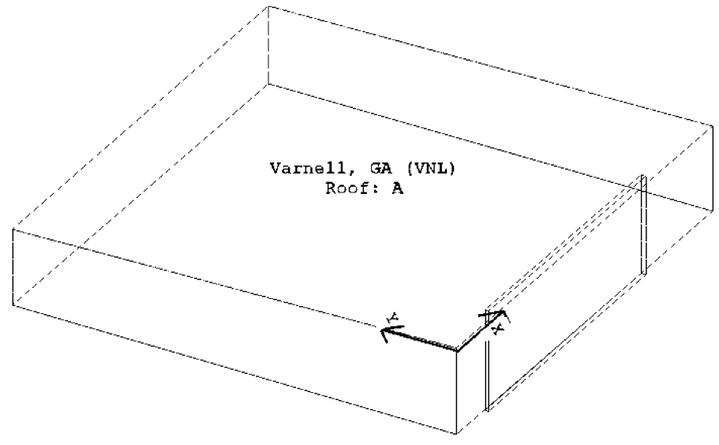
NOT Windborne Debris Region
Base Elevation: 0/0/0
Site Elevation: 0.0 ft
Primary Zone Strip Width: 2a: 11/9/10
Parts / Portions Zone Strip Width: a: 8/10/3
Basic Wind Pressure: q: 20.75,(Parts) 20.75 psf

Snow Load
Ground Snow Load: pg: 10.00 psf
Flat Roof Snow: pf: 7.00 psf
Design Snow (Sloped): ps: 7.00 psf
Rain Surcharge: 5.00
Specified Minimum Roof Snow: 12.00 psf (USR)
Exposure Factor: 2 Partially Exposed - Ce: 1.00
Snow Importance: Is: 1.000
Thermal Factor: Heated - Ct: 1.00
Ground / Roof Conversion: 0.70
Unobstructed, Slippery

Seismic Load
Lateral Force Resisting Systems using Equivalent Force Procedure
Mapped MCE Acceleration: Ss: 54.50 %g
Mapped MCE Acceleration: S1: 12.60 %g
Site Class: Stiff soil (D) - Default
Seismic Importance: Ie: 1.000
Design Acceleration Parameter: Sds: 0.4953
Design Acceleration Parameter: Sd1: 0.1972
Seismic Design Category: C
Seismic Snow Load: 0.00 psf
% Snow Used in Seismic: 0.00
Diaphragm Condition: Flexible
Fundamental Period Height Used: 14.7/10

Transverse Direction Parameters
System NOT detailed for Seismic
Redundancy Factor: Rho: 1.00
Fundamental Period: Ta: 0.2526
R-Factor: 3.00
Overstrength Factor: Omega: 2.50
Deflection Amplification Factor: Cd: 3.00
Base Shear: V: 0.1652 x W

Longitudinal Direction Parameters
System NOT detailed for Seismic
Redundancy Factor: Rho: 1.00
Fundamental Period: Ta: 0.1573
R-Factor: 3.00
Overstrength Factor: Omega: 2.50
Deflection Amplification Factor: Cd: 3.00
Base Shear: V: 0.1652 x W



06/09/2020

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PERMIT SET- For Building Dept. Approval

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1540 GENESSEE ST. KANSAS CITY, MO 64102

REV	DATE	BY	DESCRIPTION

DRAWING SCALE: NTS

CODES AND LOADS

BUILDER: O'Reilly Automotive Stores, Inc.
CUSTOMER: O'Reilly Automotive Stores, Inc.
LOCATION: Varnell, Georgia
PROJECT: Varnell, GA (VNL)
BUILDER'S PO#: VNL

Butler Manufacturing
VPC VERSION: 2020.2

JOB #: 20-010360-01
DATE: 06/05/2020
DRAWN/CHECK: JH LI / SW
PAGE: 2