

Design Wind loads:

Wind Loads (ASCE 7-22):
Design Wind Speed: 175 MPH
Exposure Category: B
Roof Slope: 0 degrees (flat roof)
Walls:
A: 48.70 PSF
B: -25.30 PSF
C: 32.30 PSF
D: -14.98 PSF

Roof:
E: -58.48 PSF
F: 33.25 PSF
G: -40.75 PSF
H: -25.78 PSF
Eoh: -81.88 PSF
Goh: -64.15 PSF

Note: All wind pressures were evaluated for h=30 feet which is the mean roof height. For simplification purposes, design for entire MWFRS will assume wind pressure at h=30 and will not vary as building height gets closer to the ground.

Components & Cladding: CH, 30 P.2
a = 4' -6"
Effective wind area 10 SF:
Zone 1: +5.60/-38.25 PSF
Zone 2: +5.60/-75.57 PSF
Zone 3: +5.60/-122.22 PSF
Zone 4: +38.25/-42.92 PSF
Zone 5: +38.25/-56.91 PSF

Effective Wind Area 20 SF:
Zone 1: +3.27/-35.92 PSF
Zone 2: +3.27/-66.24 PSF
Zone 3: +3.27/-96.56 PSF
Zone 4: +35.92/-40.58 PSF
Zone 5: +35.92/-52.25 PSF

Effective Wind Area 50 SF:
Zone 1: +1.87/-34.52 PSF
Zone 2: +1.87/-52.25 PSF
Zone 3: +1.87/-66.24 PSF
Zone 4: +32.65/-37.32 PSF
Zone 5: +32.65/-45.25 PSF

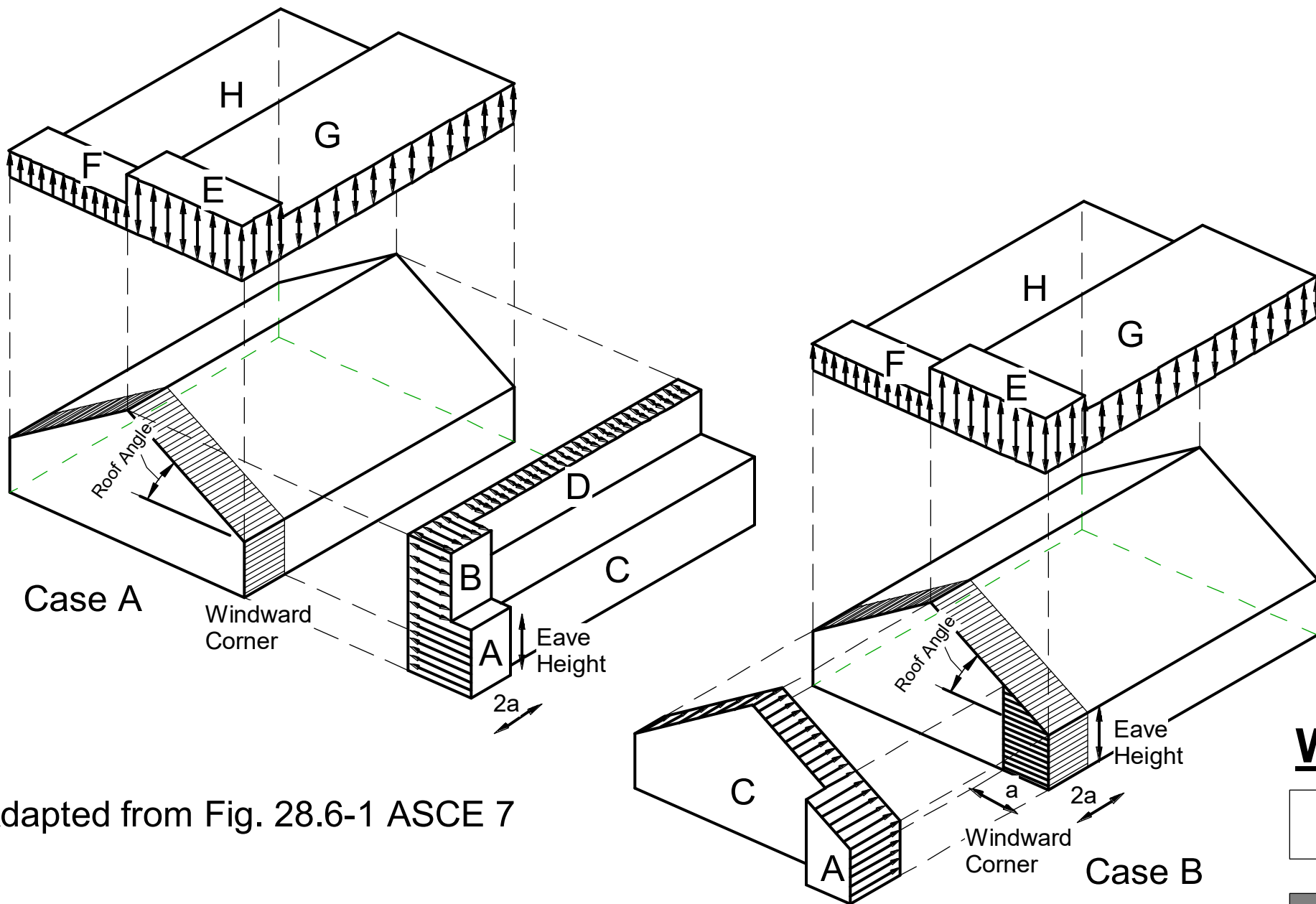
Effective Wind Area 100 SF:
Zone 1: +0.93/-33.59 PSF
Zone 2: +0.93/-42.92 PSF
Zone 3: +0.93/-42.92 PSF
Zone 4: +29.85/-34.52 PSF
Zone 5: +29.85/-40.58 PSF

Roof(Effective wind area 20 SF):
Zone 1: +3.27/-35.92 PSF
Zone 2: +3.27/-66.24 PSF
Zone 3: +3.27/-96.56 PSF

Doors(Effective Wind Area 20 SF):
Zone 4: +35.92/-40.58 PSF
Zone 5: +35.92/-52.25 PSF

Windows(Effective Wind Area 10 SF):
Zone 4: +38.25/-42.92 PSF
Zone 5: +38.25/-56.91 PSF

Overhangs(Eff.Wind Area 10 SF):
Zone 2: +5.60/-75.57 PSF
Zone 3: +5.60/-122.22 PSF

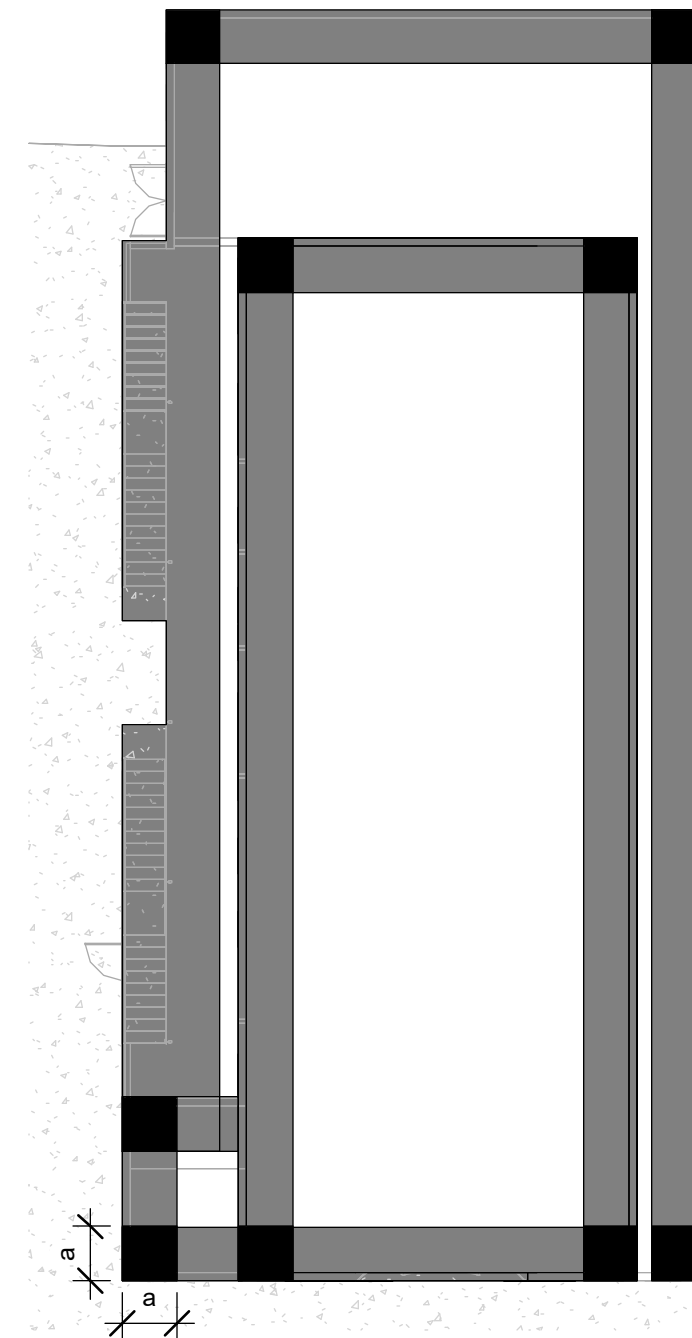


Adapted from Fig. 28.6-1 ASCE 7

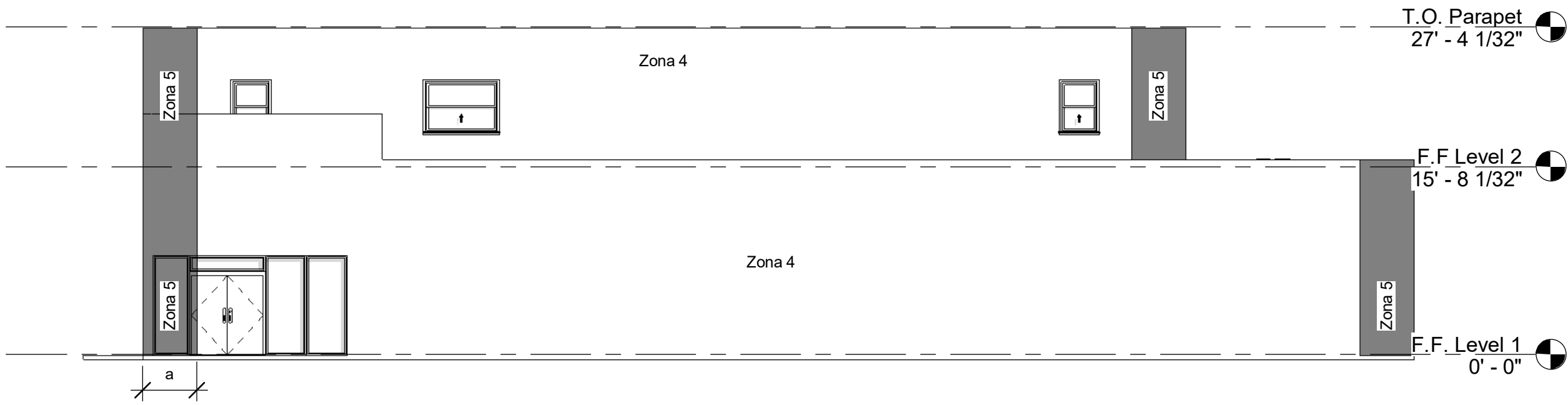
1 ASCE 7 Fig. 28.6-1
1" = 1'-0"

Wind Zone Legend:

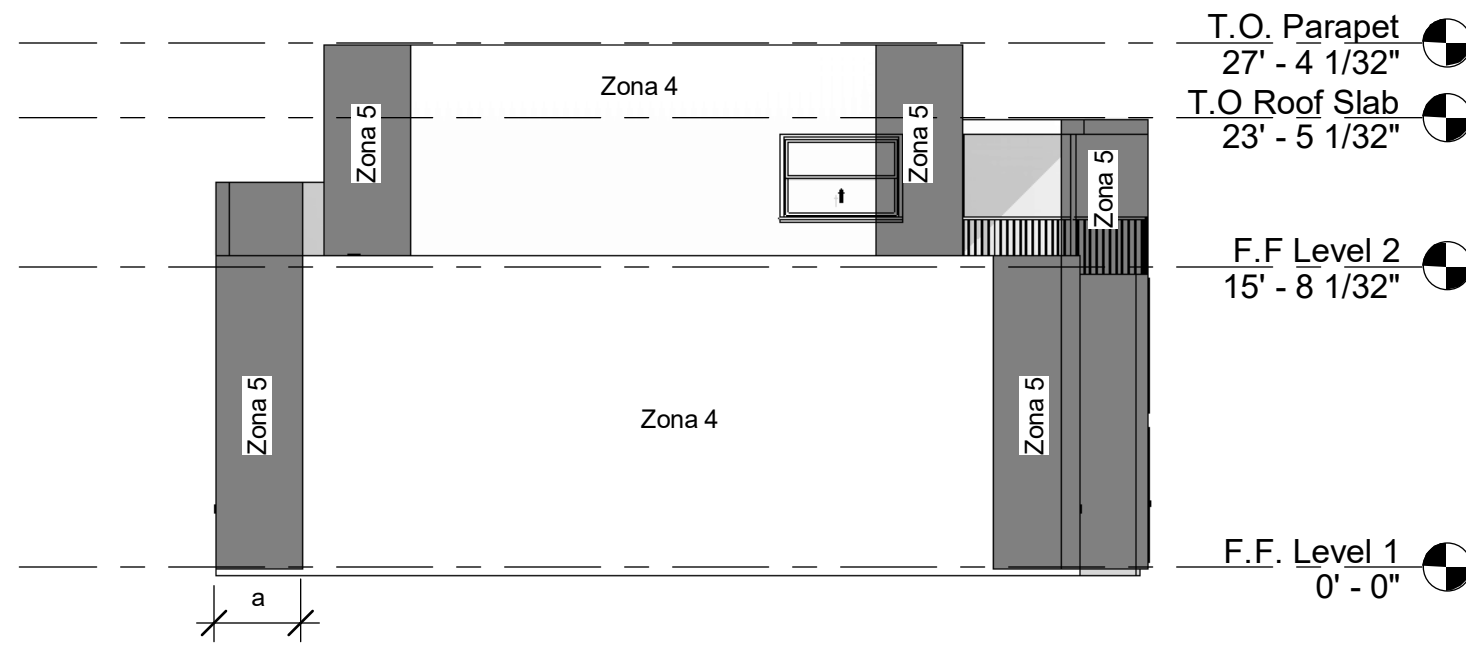
- Interior Zones
Roofs - Zone 1/ Walls - Zone 4
- End Zones
Roofs - Zone 2/ Walls - Zone 5
- Corner Zones
Roofs - Zone 3



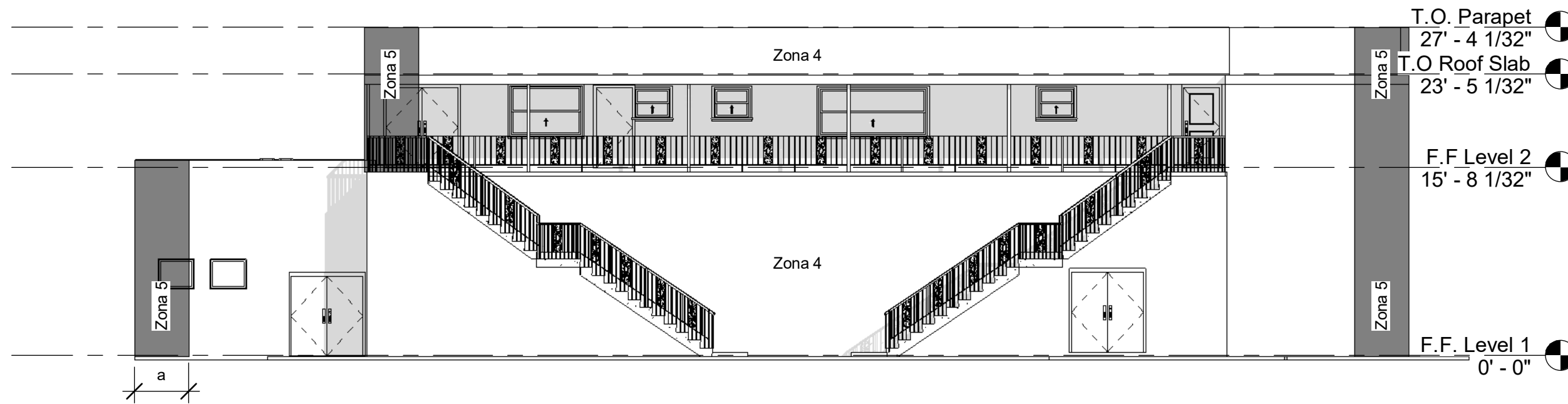
7 Wind Pressures
1/16" = 1'-0"



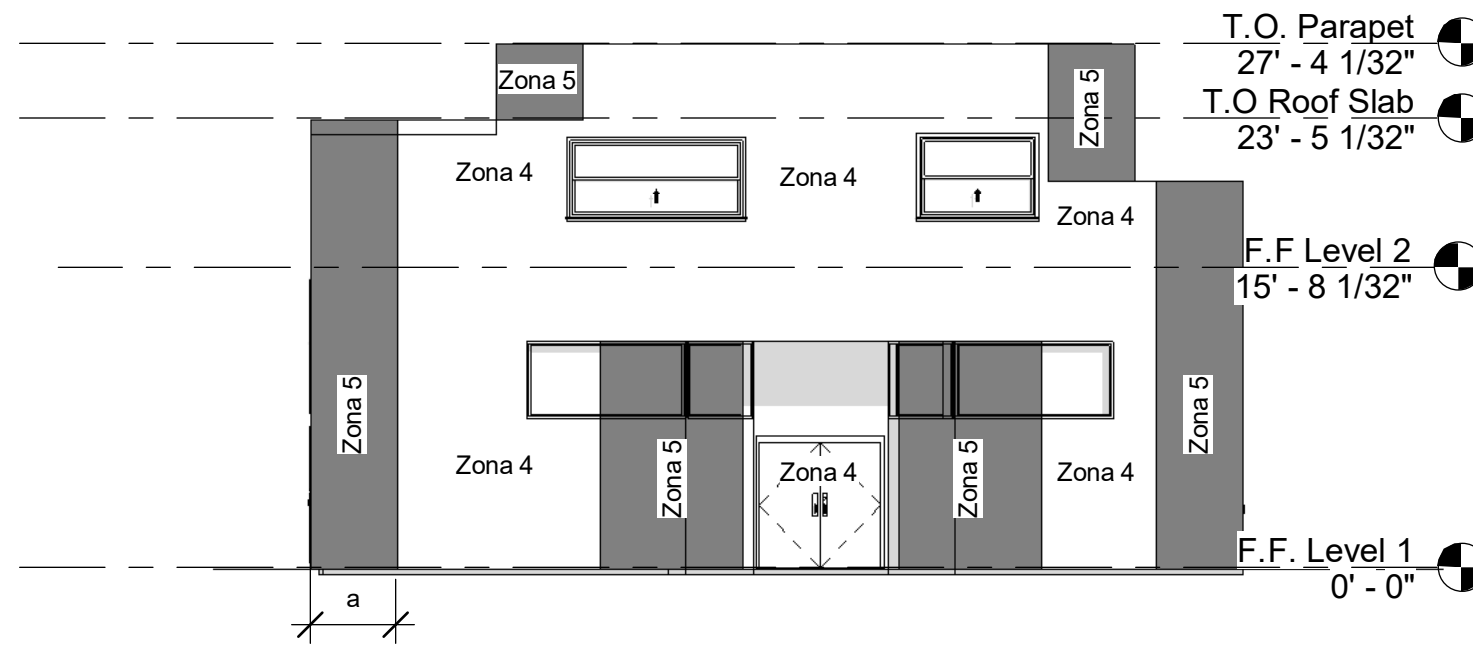
3 East Elevation
1" = 10'-0"



4 North Elevation
1" = 10'-0"



5 West Elevation
1" = 10'-0"



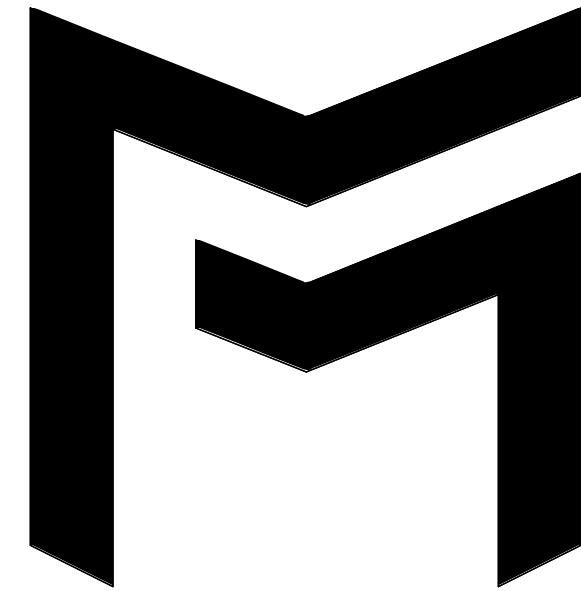
6 South Elevation
1" = 10'-0"

Scope & Reference:

Legalization/Remodeling & Repair

#BB2019008085

Department Seal:



MEC DESIGN

6187 NW 167 ST #H24 MIAMI FL 33015
OFFICE: (305) 356-1755
WWW.MECDESIGNMIAMI.COM
ID0001355/IB0000591
AR0007205/PE31509
HOMERO CRUZ, L.I.D.
MANUEL A. VEGA, A.R.
JOSE A. MARTINEZ, P.E.

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Client Name:
5900 W LITTLE HAITI LLC

Project name/address:
Office building
185 NE 59 ST
Miami, FL 33137

Seal:

Revision Schedule		
Revision	Date	By
2	12/12/2024	MS

Drawn by:
JL

Checked by:
HC

Date:
03/24/2023

Sheet name:
Wind Pressures

Sheet number:
S201