Certificate of Design Application

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 02/05/18

From Designer: Ryan Senatore Architecture

Date: _____

Job Name: _____

Address of Construction: _____

2009 International Building Code

Construction project was designed to the building code criteria listed below:

Building Code & Year 2009 Use Group Classification (s) B

Type of Construction _____

Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2009 IBC _____

Is the Structure mixed use? _____ If yes, separated or non separated or non separated (section 302.3) _____

Supervisory alarm System? _____ Geotechnical/Soils report required? (See Section 1802.2) NA

Structural Design Calculations

_____ Submitted for all structural members (106.1 – 106.11)

Design Loads on Construction Documents (1603)

Uniformly distributed floor live loads (7603.11, 1807)

Floor Area Use	Loads Shown
Office	50 psf

Wind loads (1603.1.4, 1609)

Analytical Design option utilized (1609.1.1, 1609.6)

100 mph Basic wind speed (1809.3)

Cat. II, 1.0 Building category and wind importance Factor, I_w table 1604.5, 1609.5)

B Wind exposure category (1609.4)

0.55 Internal pressure coefficient (ASCE 7)

50 psf Component and cladding pressures (1609.1.1, 1609.6.2.2)

20 psf Main force wind pressures (7603.1.1, 1609.6.2.1)

Earth design data (1603.1.5, 1614-1623)

Equiv. Lateral Force Design option utilized (1614.1)

1 Seismic use group ("Category")

0.331, 0.125 Spectral response coefficients, S_{DS} & S_{D1} (1615.1)

D Site class (1615.1.5)

_____ Live load reduction

_____ Roof *live* loads (1603.1.2, 1607.11)

46.2 psf Roof snow loads (1603.7.3, 1608)

50 psf Ground snow load, P_g (1608.2)

46.2 psf If P_g > 10 psf, flat-roof snow load P_f

1.0 If P_g > 10 psf, snow exposure factor, C_e

1.0 If P_g > 10 psf, snow load importance factor, I_s

1.1 Roof thermal factor, C_t (1608.4)

46.2 psf Sloped roof snowload, P_s (1608.4)

B Seismic design category (1616.3)

Light framed walls Basic seismic force resisting system (1617.6.2)

6.5 Response modification coefficient, R_l and deflection amplification factor C_d (1617.6.2)

Equiv. Lateral Force Analysis procedure (1616.6, 1617.5)

7 k Design base shear (1617.4, 16175.5.1)

Flood loads (1803.1.6, 1612)

_____ Flood Hazard area (1612.3)

_____ Elevation of structure

Other loads

_____ Concentrated loads (1607.4)

_____ Partition loads (1607.5)

_____ Misc. loads (Table 1607.8, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404