Certificate of Design Application

From Designer: JOE DELANEY

Date: 7/31/14

Job Name: 164 MIDDLE ST.

Address of Construction: ,,

2009 International Building Code

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

Building Code & Year 2009 IBC Use Group Classification (s) BUSINESS

Type of Construction V

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

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

Supervisory alarm System? NA 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) NA

Floor Area Use	Loads Shown

Wind loads (1603.1.4, 1609) NA

_____ Design option utilized (1609.1.1, 1609.6)

_____ Basic wind speed (1809.3)

_____ Building category and wind importance Factor, I_w table 1604.5, 1609.5)

_____ Wind exposure category (1609.4)

_____ Internal pressure coefficient (ASCE 7)

_____ Component and cladding pressures (1609.1.1, 1609.6.2.2)

_____ Main force wind pressures (7603.1.1, 1609.6.2.1)

Earth design data (1603.1.5, 1614-1623) NA

_____ Design option utilized (1614.1)

_____ Seismic use group ("Category")

_____ Spectral response coefficients, SDs & SD1 (1615.1)

_____ Site class (1615.1.5)

_____ Live load reduction

20 Roof *live* loads (1603.1.2, 1607.11)

46 FLAT ROOF Roof snow loads (1603.7.3, 1608)

60 Ground snow load, P_g (1608.2)

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

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

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

NA Roof thermal factor, C_t (1608.4)

_____ Sloped roof snowload, P_s (1608.4)

NA Seismic design category (1616.3)

NA Basic seismic force resisting system (1617.6.2)

NA Response modification coefficient, R_I and deflection amplification factor C_d (1617.6.2)

NA Analysis procedure (1616.6, 1617.5)

NA 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