Certificate of Design Application

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 11/23/15

From Designer: Archetype

Date: 9/10/15

Job Name: 96 Federal Street

Address of Construction: 96 Federal Street

2009 International Building Code

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

Building Code & Year IBC 2009 Use Group Classification (s) R2

Type of Construction VB

Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2009 IRC yes

Is the Structure mixed use? no If yes, separated or non separated or non separated (section 302.3) _____

Supervisory alarm System? mp Geotechnical/Soils report required? (See Section 1802.2) no

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

Wind loads (1603.1.4, 1609)

_____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)

_____Design option utilized (1614.1)

_____Seismic use group ("Category")

_____Spectral response coefficients, S_{Ds} & S_{D1} (1615.1)

_____Site class (1615.1.5)

_____Live load reduction

_____Roof *live* loads (1603.1.2, 1607.11)

_____Roof snow loads (1603.7.3, 1608)

_____Ground snow load, P_g (1608.2)

_____If P_g > 10 psf, flat-roof snow load P_f

_____If P_g > 10 psf, snow exposure factor, C_e

_____If P_g > 10 psf, snow load importance factor, I_s

_____Roof thermal factor, C_t (1608.4)

_____Sloped roof snowload, P_s (1608.4)

_____Seismic design category (1616.3)

_____Basic seismic force resisting system (1617.6.2)

_____Response modification coefficient, R_d and deflection amplification factor C_d (1617.6.2)

_____Analysis procedure (1616.6, 1617.5)

_____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