Certificate of Design Application

Inspections Division
Date: 09/30/14

From Designer: Don Dyer, RA

Date: 9/15/2014

Job Name: 45 York Street

Address of Construction: 45 York Street, Portland, ME 04101

2009 International Building Code

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

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

Type of Construction Type IV

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) n/a

Supervisory alarm System? Yes Geotechnical/Soils report required? (See Section 1802.2) n/a

Structural Design Calculations

n/a 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
n/a	n/a

Wind loads (1603.1.4, 1609)

n/a Design option utilized (1609.1.1, 1609.6)

n/a Basic wind speed (1809.3)

n/a Building category and wind importance Factor, I_w table 1604.5, 1609.5)

n/a Wind exposure category (1609.4)

n/a Internal pressure coefficient (ASCE 7)

n/a Component and cladding pressures (1609.1.1, 1609.6.2.2)

n/a Main force wind pressures (7603.1.1, 1609.6.2.1)

Earth design data (1603.1.5, 1614-1623)

n/a Design option utilized (1614.1)

n/a Seismic use group ("Category")

n/a Spectral response coefficients, SDs & SD1 (1615.1)

n/a Site class (1615.1.5)

n/a Live load reduction

n/a Roof *live* loads (1603.1.2, 1607.11)

n/a Roof snow loads (1603.7.3, 1608)

n/a Ground snow load, P_g (1608.2)

n/a If P_g > 10 psf, flat-roof snow load P_f

n/a If P_g > 10 psf, snow exposure factor, C_e

n/a If P_g > 10 psf, snow load importance factor, I_s

n/a Roof thermal factor, C_t (1608.4)

n/a Sloped roof snowload, P_s (1608.4)

n/a Seismic design category (1616.3)

n/a Basic seismic force resisting system (1617.6.2)

n/a Response modification coefficient, R_f and deflection amplification factor C_d (1617.6.2)

n/a Analysis procedure (1616.6, 1617.5)

n/a Design base shear (1617.4, 16175.5.1)

Flood loads (1803.1.6; 1612)

n/a Flood Hazard area (1612.3)

n/a Elevation of structure

Other loads

n/a Concentrated loads (1607.4)

n/a Partition loads (1607.5)

n/a Misc. loads (Table 1607.8, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404