Certificate of Design Application

Reviewed for Code Compliance
Inspections Division
Approved with Conditions

From Designer: Christopher Campbell

Date: July10, 2013 Date: 07/12/13

Job Name: Bakery

Address of Construction: 742 Congress St, Portland

2009 International Building Code

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

Building Code & Year 1967 Use Group Classification (s) F-1 / M

Type of Construction III B Existing

Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2009 IRC No

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

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

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

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, SDs & SD1 (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_f 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