Certificate of Design Application

From Designer: Bruce Hamilton Architects

Date: 1/13/14

Job Name: Rite Aid #4133

Address of Construction: 701 Forest Ave, Portland, ME

Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 02/12/14

2009 International Building Code

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

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

Type of Construction 2B

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

Is the Structure mixed use? yes 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) 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
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Wind loads (1603.1.4, 1609)

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____ 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)

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____ 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_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)

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____ Flood Hazard area (1612.3)

____ Elevation of structure

Other loads

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____ 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

*Existing Building shell to remain "as is" no structural changes nor wall fenestration.