Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 03/17/16

Certificate of Design Application

ner: ALPHA architects

Date: 1-11-2016

Job Name: Chestnut st. 3rd Fl. Apartment

Address of Construction: 17 Chestnut St, Portland ME 04101

2009 International Building Code

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

Building Code & Year 2009 IBC Use Group Classification (s) R-3, Residential

Type of Construction IIIB Unprotected Combustible

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? Yes If yes, separated or non separated or non separated (section 302.3) NO

Supervisory alarm System? N/A Geotechnical/Soils report required? (See Section 1802.2) NA

Structural Design Calculations

NR 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
NA	

Wind loads (1603.1.4, 1609)

- ____ Design option utilized (1609.1.1, 1609.6)
- ____ Basic wind speed (1809.3)
- NA 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)
- NA Seismic use group ("Category")
- ____ Spectral response coefficients, S_{DS} & S_{D1} (1615.1)
- ____ Site class (1615.1.5)

- NA 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)

- NA Flood Hazard area (1612.3)
- ____ Elevation of structure

Other loads

- NA 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