Certificate of Design Applicatio

From Designer: Brian Curley

Date: September 6, 2013

Job Name: Renovation to Cumberland County Federal Credit Union

Address of Construction: 1345 Washington Ave., Portland, ME 04103

Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 10/31/13

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

Type of Construction IIIA

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

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

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

Structural Design Calculations

Existing 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
- 20 p.s.f. 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)

- N/A 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