Certificate of Design Application

From Designer: Oak Point Associates

Date: 20 December 2013

Job Name: Renovation to Blanchard Block

Address of Construction: 111 Commercial Street

2009 International Building Code

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

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

Type of Construction IV, Heavy Timber

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? yes If yes, separated or non separated or non separated (section 302.3) non

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

Structural Design Calculations

_____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_I 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

Accessibility Building Code Certificate

Designer: Oak Point Associates

Address of Project: 111 Commercial Street

Nature of Project: Dormer addition at roof

ADA n/a

The technical submissions covering the proposed construction work as described above have been designed in compliance with applicable referenced standards found in the Maine Human Rights Law and Federal Americans with Disability Act. Residential Buildings with 4 units or more must conform to the Federal Fair Housing Accessibility Standards. Please provide proof of compliance if applicable.

(SEAL) REGISTERED ARCHITECT GLENN LORING HARMON, JR. No. 2057 STATE OF MAINE

Signature:

Title: Senior Architect

Firm: Oak Point Associates

Address: 231 Main Street

Biddeford, Maine

Phone: 283-0193

For more information or to download this form and other permit applications visit the Inspections Division on our website at www.portlandmaine.gov

Certificate of Design

Date: 20 December 2013

From: _____

These plans and / or specifications covering construction work on:

Blanchard Block Renovation 111 Commercial Street

Have been designed and drawn up by the undersigned, a Maine registered Architect / Engineer according to the **2009 International Building Code** and local amendments.

REGISTERED ARCHITECT
GLENN LORING HARMON, JR.
No. 2057
STATE OF MAINE

(SEAL)

Signature: _____

Title: Senior Architect

Firm: Oak Point Associates

Address: 231 Main Street

Biddeford, Maine

Phone: 283-1093

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