



Certificate of Design Application

From Designer:

PDT Architects

Date:

7-25-2013

Job Name:

E.M.G. Addition and Renovation

Address of Construction:

53 Sewall St., Portland, ME 04102

2009 International Building Code

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

Building Code & Year IBC-2009 ~~NEPA 101-2009~~ Use Group Classification (s) Business (B)/Ambulatory/HealthCare

Type of Construction IB at renovation, IB at addition

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? 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) Provided

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
Lobbies & 1st Floor Corridors	100 psf/2000 #
Offices	50 psf/2000 #/15 psf
Corridors Above 1st Floor	80 psf/2000#
Storage (Light)	125 psf

Wind loads (1603.1.4, 1609)

ASCE 7-05

Design option utilized (1609.1.1, 1609.6)

100 mph Basic wind speed (1809.3)

1.0 Building category and wind importance Factor, I_w table 1604.5, 1609.5)

C Wind exposure category (1609.4)

0.18/0.18 Internal pressure coefficient (ASCE 7)

Field/EZ - 21 psf Component and cladding pressures (1609.1.1, 1609.6.2.2)

Field/EZ - 15psf/21psf Main force wind pressures (7603.1.1, 1609.6.2.1)

Earth design data (1603.1.5, 1614-1623)

Frame Structures Design option utilized (1614.1)

II Seismic use group ("Category")

0.357/0.168 Spectral response coefficients, S_D s & S_{D1} (1615.1)

D Site class (1615.1.5)

Utilized

Live load reduction

20 psf

Roof live loads (1603.1.2, 1607.11)

Pf - 46.2 psf

Roof snow loads (1603.7.3, 1608)

Pg - 60 psf

Ground snow load, P_g (1608.2)

46.2 psf

If $P_g > 10$ psf, flat-roof snow load P_f

1.0

If $P_g > 10$ psf, snow exposure factor, G_e

1.0

If $P_g > 10$ psf, snow load importance factor, I_s

1.1

Roof thermal factor, C_t (1608.4)

N/A

Sloped roof snowload, P_s (1608.4)

C

Seismic design category (1616.3)

OMF & CBF

Basic seismic force resisting system (1617.6.2)

R = 3.5

Response modification coefficient, R , and deflection amplification factor, C_d (1617.6.2)

Equiv. lateral Force

Analysis procedure (1616.6, 1617.5)

Design base shear (1617.4, 1617.5.1)

Flood loads (1803.1.6, 1612)

N/A

Flood Hazard area (1612.3)

Elevation of structure

Other loads

As noted on Dwgs.

Concentrated loads (1607.4)

15 psf

Partition loads (1607.5)

As noted on Dwgs.

Misc. loads (Table 1607.8, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404)



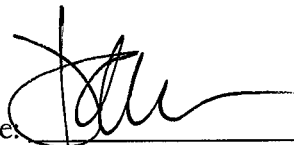
Accessibility Building Code Certificate

Designer: David C. Webster

Address of Project: 53 Sewall St., Portland, ME 04102

Nature of Project: Addition and renovation of an existing eye care clinic and eye surgery center.

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.

Signature: 

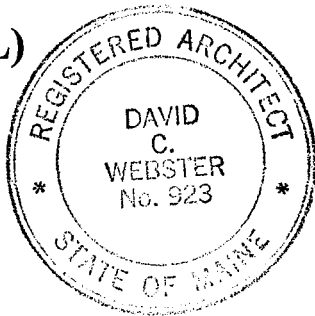
Title: Principal

Firm: PDT Architects

Address: 49 Dartmouth St.
Portland, ME 04101

Phone: 207-775-1059 X 221

(SEAL)



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Certificate of Design

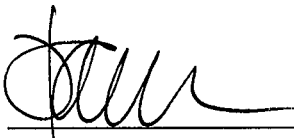
Date: 7-25-2013

From: PDT Architects

These plans and / or specifications covering construction work on:

E.M.G. - Phase 2 - Addition + Renovation
53 Sewall St., Portland, ME 04102

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

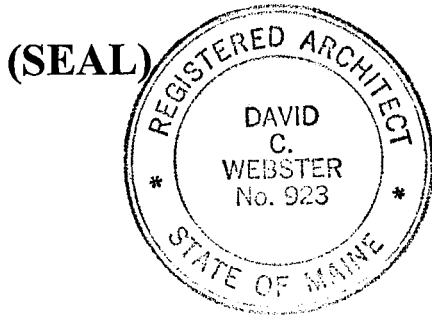
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