

Arch.



# Certificate of Design

Date: 2/5/2016

From: Dennis Morelli

These plans and / or specifications covering construction work on:

Facilities Management Renovation room G 928 at  
Maine Medical Center

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

Signature: D Morelli

Title: Architect

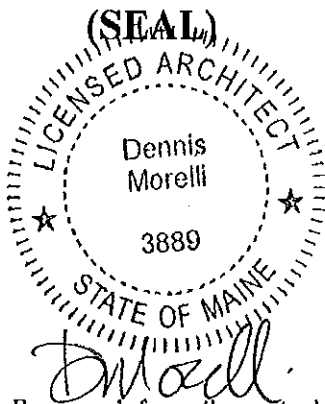
Firm: Maine Medical Center

Address: 22 Bramhall Street

Portland ME 04102

Phone: 062-6149

E-mail: dmoreld@mmc.org



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# Accessibility Building Code Certificate

Designer: Dennis Morelli

Address of Project: 22 Bramhall Street

Nature of Project: Renovate 780 sq office to include  
new flooring, lighting, exterior  
windows

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: *D Morelli*

Title: Architect

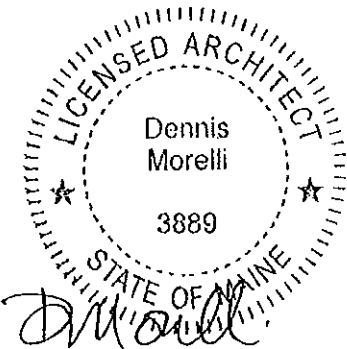
Firm: Maine Medical Center

Address: 22 Bramhall St  
Portland, ME 04102

Phone: ~~477~~ 602-6149

E-mail: moreld@mmc.org

(SEAL)



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ARCH

# Certificate of Design Application

From Designer: Dennis Morelli  
 Date: 2/4/2016  
 Job Name: Facilities Management Renovations  
 Address of Construction: 22 Bramhall Street

## 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 ~~IIA~~ 2B  
 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? N If yes, separated or non separated or non separated (section 302.3) \_\_\_\_\_  
 Supervisory alarm System? Y Geotechnical/Soils report required? (See Section 1802.2) N/A

### 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
<u>n/a</u>	

### 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 (1603.1.1, 1609.6.2.1)

### Earth design data (1603.1.5, 1614-1623)

/ Design option utilized (1614.1)  
/ Seismic use group ("Category")  
/ Spectral response coefficients,  $S_s$  &  $S_1$  (1615.1)  
/ Site class (1615.1.5)

/ Live load reduction  
/ Roof  $l/w$  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  $s_f$   
/ 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,  $R_d$  and deflection amplification factor,  $C_d$  (1617.6.2)  
/ Analysis procedure (1616.6, 1617.5)  
/ Design base shear (1617.4, 1617.5.1)

### 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)