



# Certificate of Design Application

From Designer: FRANCIS CAUFFMAN FOLEY HOFFMANN, ARCHITECTS LTD.  
 Date: SEPTEMBER 29, 2007  
 Job Name: FORE RIVER MEDICAL OFFICE BUILDING (2ND & 3RD FLOOR TENANT BUILD)  
 Address of Construction: 195 FORE RIVER PARKWAY, PORTLAND, ME 04101

## 2003 International Building Code

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

Building Code & Year IBC 2003 Use Group Classification (s) BUSINESS

Type of Construction 2B

Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2003 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) NO

REFERENCE CORE & SHELL PERMIT NUMBER FOR INFORMATION BELOW

Structural Design Calculations \_\_\_\_\_ Live load reduction

\_\_\_\_\_ Submitted for all structural members (106.1 - 106.11) \_\_\_\_\_ Roof live loads (1603.1.2, 1607.11)

\_\_\_\_\_ Design Loads on Construction Documents (1603) \_\_\_\_\_ Roof snow loads (1603.7.3, 1608)

Uniformly distributed floor live loads (7603.11, 1807) \_\_\_\_\_ Ground snow load,  $P_g$  (1608.2)

Floor Area Use \_\_\_\_\_ Loads Shown \_\_\_\_\_ 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)

\_\_\_\_\_ \_\_\_\_\_ Design option utilized (1609.1.1, 1609.6) \_\_\_\_\_ Basic seismic force resisting system (1617.6.2)

\_\_\_\_\_ \_\_\_\_\_ Basic wind speed (1809.3) \_\_\_\_\_ Response modification coefficient,  $R_d$  and

\_\_\_\_\_ \_\_\_\_\_ Building category and wind importance Factor,  $w$  table 1604.5, 1609.5) \_\_\_\_\_ deflection amplification factor  $C_d$  (1617.6.2)

\_\_\_\_\_ \_\_\_\_\_ Wind exposure category (1609.4) \_\_\_\_\_ Analysis procedure (1616.6, 1617.5)

\_\_\_\_\_ \_\_\_\_\_ Internal pressure coefficient (ASCE 7) \_\_\_\_\_ Design base shear (1617.4, 1617.5.1)

\_\_\_\_\_ \_\_\_\_\_ Component and cladding pressures (1609.1.1, 1609.6.2.2) \_\_\_\_\_ Flood loads (1803.1.6, 1612)

\_\_\_\_\_ \_\_\_\_\_ Main force wind pressures (7603.1.1, 1609.6.2.1) \_\_\_\_\_ Flood Hazard area (1612.3)

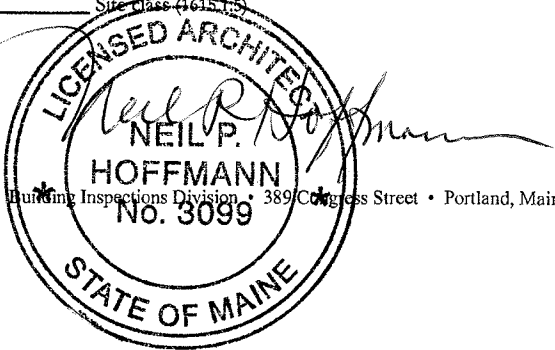
\_\_\_\_\_ \_\_\_\_\_ Earth design data (1603.1.5, 1614-1623) \_\_\_\_\_ Elevation of structure

\_\_\_\_\_ \_\_\_\_\_ Design option utilized (1614.1) \_\_\_\_\_ Other loads

\_\_\_\_\_ \_\_\_\_\_ Seismic use group ("Category") \_\_\_\_\_ Concentrated loads (1607.4)

\_\_\_\_\_ \_\_\_\_\_ Spectral response coefficients,  $S_D$ s &  $S_D1$  (1615.1) \_\_\_\_\_ Partition loads (1607.5)

\_\_\_\_\_ \_\_\_\_\_ Site class (1615.1.9) \_\_\_\_\_ Misc. loads (Table 1607.8, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404)





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FRANCIS CAUFFMAN FOLEY HOFFMANN, ARCHITECTS LTD.

Date:

SEPTEMBER 29, 2009

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FORE RIVER MEDICAL OFFICE BUILDING (2ND & 3RD FLOOR TENANT BUILD)

Address of Construction:

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REFERENCE CORE & SHELL PERMIT NUMBER FOR INFORMATION BELOW  
Structural Design Calculations

\_\_\_\_\_ Submitted for all structural members (106.1 - 106.11) \_\_\_\_\_ Live load reduction

### Design Loads on Construction Documents (1603)

Floor Area Use	Loads Shown
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

- \_\_\_\_\_ 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)

### 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)

- \_\_\_\_\_ Seismic design category (1616.3)
- \_\_\_\_\_ Basic seismic force resisting system (1617.6.2)
- \_\_\_\_\_ Response modification coefficient,  $R$ , and deflection amplification factor  $C_d$  (1617.6.2)
- \_\_\_\_\_ Analysis procedure (1616.6, 1617.5)
- \_\_\_\_\_ Design base shear (1617.4, 1617.5.1)

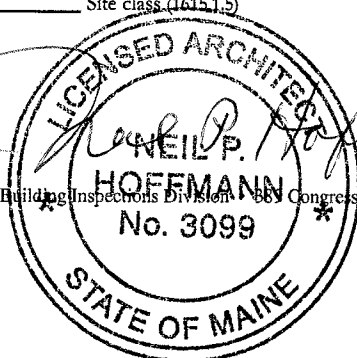
### Earth design data (1603.1.5, 1614-1623)

- \_\_\_\_\_ Design option utilized (1614.1)
- \_\_\_\_\_ Seismic use group ("Category")
- \_\_\_\_\_ Spectral response coefficients,  $S_D$ s &  $S_{DI}$  (1615.1)
- \_\_\_\_\_ Site class (1615.1.5)

- ### 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)





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Floor Area Use	Loads Shown
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\_\_\_\_\_ Basic seismic force resisting system (1617.6.2)

\_\_\_\_\_ Response modification coefficient,  $R$ , and

deflection amplification factor  $C_d$  (1617.6.2)

\_\_\_\_\_ Analysis procedure (1616.6, 1617.5)

\_\_\_\_\_ Design base shear (1617.4, 1617.5.1)

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\_\_\_\_\_ Design option utilized (1609.1.1, 1609.6)

\_\_\_\_\_ Basic wind speed (1809.3)

\_\_\_\_\_ Building category and wind importance Factor,  $w_p$   
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)

### Flood loads (1803.1.6, 1612)

\_\_\_\_\_ Flood Hazard area (1612.3)

\_\_\_\_\_ Elevation of structure

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

\_\_\_\_\_ Design option utilized (1614.1)

\_\_\_\_\_ Seismic use group ("Category")

\_\_\_\_\_ Spectral response coefficients,  $S_D$ s &  $S_{D1}$  (1615.1)

\_\_\_\_\_ Site class (1615.1.5)

### 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)

