

Certificate of Design Application

From Designer:			Lavallee Brensinger Architects			
Date:		June 11, 2015				
Job Name:		The Park Danforth Renovations & Additions				
Address of Construction:			777 Stevens Avenue, Portland, Maine 04103			
		Const	2009 Internation truction project was designed to	nal Building Code the building code crite	eria listed below:	
Building Co	ode & Year ₋	2009 IB	C Use Group Classifica	tion (s) 11,516,584		
Type of Co			uction Type IB			
		Fire sun	pression system in Accordance wi	th Section 903 3.1 of the	2000 ID.C. Yes	
Is the Structu					ed (section 302,3) Non Separated	
Supervisory a				rt required? (See Section	,	
Y	Since Of October	•	Geolectifical/ 30ils 1epo.	it requiredr (See Section	1802.2) 100	
Structural Design Calculations				Per IBC 1607.9	Live load reduction	
Completed Submitted for all structural members (106.1 – 106.11)				20 psf	Roof <i>live</i> loads (1603.1.2, 1607.11)	
				46 psf + drift	Roof snow loads (1603.7.3, 1608)	
Design Loads on Construction Documents (1603) Uniformly distributed floor live loads (7603.11, 1807)				60 psf	Ground snow load, Pg (1608.2)	
Floor Area Use			Loads Shown	46 psf + drift	If Pg > 10 psf, flat-roof snow load _{Pf}	
Offices		50 psf -	+ 15 Partition	1.0	If $P_g > 10$ psf, snow exposure factor, G	
Private rooms/corridors, balconies		40 psf		1.0	If $P_g > 10$ psf, snow load importance factor, T_k	
Public rooms/corridors, stairs		100 psf		1.1	Roof thermal factor, $G(1608.4)$	
Rooftop garden		200 psf		1.0	Sloped roof snowload, p.(1608.4)	
Wind loads (1603.1.4, 1609)				В		
Mthd 2	Design opti	on utilize	d (1609.1.1, 1609.6)	R=3	Seismic design category (1616.3)Basic seismic force resisting system (1617.6.2)	
100 MPH	Basic wind s	peed (180	9.3)	3	Response modification coefficient, R _I and	
1.0	Building cat	egory and	wind importance Factor, h, table 1604.5, 1609.5)		deflection amplification factor _{Cd} (1617.6.2)	
Wind exposure category (1609.4)			ory (1609.4)	Equiv. Lat Force	Analysis procedure (1616.6, 1617.5)	
+/- 0.18 Internal pressure coefficient (A			, ,	Per ASCE 7-05	Design base shear (1617.4, 16175.5.1)	
Per ASCE 7-05 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)		
Earth design		-	, ,	N/A	_Flood Hazard area (1612.3)	
Earth design data (1603.1.5, 1614-162 Equiv. Lat Force Design option utilized (1614-162)			•	N/A	Elevation of structure	
Seismic use group ("Ca			•	Other loads		
0.264 0.000			fficients, SDs & SD1 (1615.1)	Included	_Concentrated loads (1607.4)	
С	Site class (161	• •		Included	_Partition loads (1607.5)	
				N/A	_Misc. loads (Table 1607.8, 1607.6.1, 1607.7,	

1607.12, 1607.13, 1610, 1611, 2404