

Certificate of Design Application

From Designer:		Lavallee Brensinger Architec	Lavallee Brensinger Architects			
Date:		June 11, 2015	June 11, 2015			
Job Name:		The Park Danforth Renovation	The Park Danforth Renovations & Additions			
Address of Construction: 777 Stevens Avenue, Portland, Maine			id, Maine 04103			
		2009 Inte . Construction project was des	rnational Buil		ia listed below:	
Building Cod	le & Year <u>2</u>	2009 IBC Use Group C	Classification (s) $\frac{1}{2}$,694,312		
Type of Cons	struction	Construction Type IB				
Will the Struct	ure have a F	ire suppression system in Accor	rdance with Section	903 3 1 of the 2	nno IRC Yes	
Is the Structur					d (section 302.3) Non Separated	
Supervisory als		7 7 1				
supervisory an	aim System:	Geotechnical/S	Soils report required	d? (See Section 1	802.2)	
Structural De	sign Calcul	lations		Per IBC 1607.9	_Live load reduction	
Completed Submitted for all structural members (106.1 – 1			07 11)	20 psf	Roof live loads (1603.1.2, 1607.11)	
	oabiiittea	101 an structural members (100.1 – 1	00.11)	46 psf + drift	Roof snow loads (1603.7.3, 1608)	
		ruction Documents (1603)		60 psf	,	
Floor Area		ve loads (7603.11, 1807) Loads Shown		46 psf + drift	Ground snow load, Pg (1608.2)	
O#:		50 (15 B 19)		1.0	If $Pg > 10$ psf, flat-roof snow load Pf	
Offices Private reems/cerriders, belongies		50 psf + 15 Partition	_	1.0	_If $Pg > 10$ psf, snow exposure factor, C_{Q}	
Public rooms/corridors, balconies Public rooms/corridors, stairs		40 psf	_	***************************************	If $Pg > 10$ psf, snow load importance factor, I_F	
Rooftop garden		100 psf 200 psf	_	1.1	_Roof thermal factor, $_{G}$ (1608.4)	
		•		1.0	_Sloped roof snowload, p_3 (1608.4)	
Wind loads (1	1603.1.4, 160	99)		В	Seismic design category (1616.3)	
Mthd 2	Design opti	on utilized (1609.1.1, 1609.6)		R=3	Basic seismic force resisting system (1617.6.2)	
1.00 MPH		speed (1809.3)		3	Response modification coefficient, $_{R_{I}}$ and	
	Building cat	tegory and wind importance Factor, hy table 1604.5, 1609.5)			deflection amplification factor _{Cd} (1617.6.2)	
В	Wind expos	sure category (1609.4)		Equiv. Lat Force	Analysis procedure (1616.6, 1617.5)	
+/- 0.18 Per ASCE 7-05	ASCE 7-05			Per ASCE 7-05	Design base shear (1617.4, 16175.5.1)	
Component and cladding pressures (1609.1.1, 1609.6.2.2)			2)	Flood loads (1	803.1.6, 1612)	
		vind pressures (7603.1.1, 1609.6.2.1)		N/A	Flood Hazard area (1612.3)	
Earth design data (1603.1.5, 1614-1623) Equiv. Lat Force Design agricular design (1644.4)				N/A	Elevation of structure	
Design option utilized (1614.1)				Other loads		
seismic use group (Included	Concentrated loads (1607.4)	
C	Spectral response coefficients, SDs & SDI (1615.1)Site class (1615.1.5)			Included	Partition loads (1607.5)	
	one ciass (10	113.1.3)				

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