



# Certificate of Design Application

From Designer: PORT CITY Architecture  
 Date: July 18 / 2016  
 Job Name: Metro Renovations  
 Address of Construction: 114 Valley 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) B + S1 Existing

Type of Construction II B assumed

Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2009 IBC Existing

Is the Structure mixed use? Yes If yes, separated or non separated or non separated (section 302.3) Existing Separation

Supervisory alarm System? Existing Geotechnical/Soils report required? (See Section 1802.2) N/A

### Structural Design Calculations

<input type="checkbox"/> Submitted for all structural members (106.1 – 106.11)	_____ Live load reduction
<b>Design Loads on Construction Documents (1603)</b>	_____ Roof <i>live</i> loads (1603.1.2, 1607.11)
Uniformly distributed floor live loads (7603.11, 1807)	_____ Roof snow loads (1603.7.3, 1608)
Floor Area Use                      Loads Shown	_____ 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)
_____	_____ Seismic design category (1616.3)
<b>Wind loads (1603.1.4, 1609)</b>	_____ Basic seismic force resisting system (1617.6.2)
_____ Design option utilized (1609.1.1, 1609.6)	_____ Response modification coefficient, $R$ , and
_____ Basic wind speed (1809.3)	_____ deflection amplification factor $C_d$ (1617.6.2)
_____ Building category and wind importance Factor, $I_w$ (table 1604.5, 1609.5)	_____ Analysis procedure (1616.6, 1617.5)
_____ Wind exposure category (1609.4)	_____ Design base shear (1617.4, 16175.5.1)
_____ Internal pressure coefficient (ASCE 7)	<b>Flood loads (1803.1.6, 1612)</b>
_____ Component and cladding pressures (1609.1.1, 1609.6.2.2)	_____ Flood Hazard area (1612.3)
_____ Main force wind pressures (7603.1.1, 1609.6.2.1)	_____ Elevation of structure
<b>Earth design data (1603.1.5, 1614-1623)</b>	<b>Other loads</b>
_____ Design option utilized (1614.1)	_____ Concentrated loads (1607.4)
_____ Seismic use group ("Category")	_____ Partition loads (1607.5)
_____ Spectral response coefficients, $S_D$ & $SD_1$ (1615.1)	_____ Misc. loads (Table 1607.8, 1607.6.1, 1607.7, 1607.12, 1607.13, 1640, 1611, 2404)
_____ Site class (1615.1.5)	