



Certificate of Design Application

From Designer: Judy L. Johnson
 Date: November 17, 2015
 Job Name: TD Bank 3rd Floor IT Room Relocation
 Address of Construction: One Portland Square

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 Group B

Type of Construction Existing

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

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

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

Structural Design Calculations

Existing Structure 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
Existing	Existing

Wind loads (1603.1.4, 1609)

Existing Structure Design option utilized (1609.1.1, 1609.6)

Existing Structure Basic wind speed (1809.3)

Existing Structure Building category and wind importance Factor, w_b (table 1604.5, 1609.5)

Existing Structure Wind exposure category (1609.4)

Existing Structure Internal pressure coefficient (ASCE 7)

Existing Structure Component and cladding pressures (1609.1.1, 1609.6.2.2)

Existing Structure Main force wind pressures (7603.1.1, 1609.6.2.1)

Earth design data (1603.1.5, 1614-1623)

Existing Structure Design option utilized (1614.1)

Existing Structure Seismic use group ("Category")

Existing Structure Spectral response coefficients, S_D & S_I (1615.1)

Existing Structure Site class (1615.1.5)

Existing Structure Live load reduction

Existing Structure Roof live loads (1603.1.2, 1607.11)

Existing Structure Roof snow loads (1603.7.3, 1608)

Existing Structure Ground snow load, P_g (1608.2)

Existing Structure If $P_g > 10$ psf, flat-roof snow load P_f

Existing Structure If $P_g > 10$ psf, snow exposure factor, C_e

Existing Structure If $P_g > 10$ psf, snow load importance factor, I_s

Existing Structure Roof thermal factor, C_t (1608.4)

Existing Structure Sloped roof snowload, P_s (1608.4)

Existing Structure Seismic design category (1616.3)

Existing Structure Basic seismic force resisting system (1617.6.2)

Existing Structure Response modification coefficient, R_f and deflection amplification factor C_d (1617.6.2)

Existing Structure Analysis procedure (1616.6, 1617.5)

Existing Structure Design base shear (1617.4, 1617.5.1)

Flood loads (1803.1.6, 1612)

Existing Structure Flood Hazard area (1612.3)

Existing Structure Elevation of structure

Other loads

Existing Structure Concentrated loads (1607.4)

Existing Structure Partition loads (1607.5)

Existing Structure Misc. loads (Table 1607.8, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404)