



Certificate of Design Application

From Designer:

MICHAEL F. HAYS

Date:

6/28/16

Job Name:

COURTHOUSE FOOD KIOSK

Address of Construction:

142 FEDERAL ST.

2009 International Building Code

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

Building Code & Year 2009 Use Group Classification (s) A-3 (COURTROOMS)

Type of Construction 3B

Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2009 IRC NO

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) -

Structural Design Calculations

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

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 (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)

Earth design data (1603.1.5, 1614-1623)

- Design option utilized (1614.1)
- Seismic use group ("Category")
- Spectral response coefficients, S_D & S_{D1} (1615.1)
- Site class (1615.1.5)

- Live load reduction
 - 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)
 - 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, 16175.5.1)
- 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)

NOT APPLICABLE