Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 02/28/18

Certificate of Design Application

From Designer: RYAN SENATORE ARCHITECTURE

Date: 7/26/16

Job Name: RETAIL CONTAINERS

Address of Construction: 93 WASHINGTON AVENUE

2009 International Building Code

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

Building Code & Year 2009 Use Group Classification (s) M - MERCANTILE

Type of Construction 5B

Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2009 IBC 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) N/A

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
RETAIL 1ST	100 PSF

Wind loads (1603.1.4, 1609)

ANALYTICAL Design option utilized (1609.1.1, 1609.6)

100 MPH Basic wind speed (1809.3)

II, 1.0 Building category and wind importance Factor, I_w table 1604.5, 1609.5)

B Wind exposure category (1609.4)

.55 Internal pressure coefficient (ASCE 7)

50 Component and cladding pressures (1609.1.1, 1609.6.2.2)

23 Main force wind pressures (7603.1.1, 1609.6.2.1)

Earth design data (1603.1.5, 1614-1623)

EQUIV. LATERAL FORCE Design option utilized (1614.1)

I Seismic use group ("Category")

.325, .123 Spectral response coefficients, SDs & SD1 (1615.1)

D Site class (1615.1.5)

— Live load reduction

Roof live loads (1603.1.2, 1607.11)

42 PSF Roof snow loads (1603.7.3, 1608)

60 PSF Ground snow load, P_g (1608.2)

42 PSF If P_g > 10 psf, flat-roof snow load P_f

1.0 If P_g > 10 psf, snow exposure factor, C_e

1.0 If P_g > 10 psf, snow load importance factor, I_s

1.0 Roof thermal factor, C_t (1608.4)

— Sloped roof snowload, P_s (1608.4)

B Seismic design category (1616.3)

STL. SHEAR WALL Basic seismic force resisting system (1617.6.2)

7, 6 Response modification coefficient, R_i and deflection amplification factor C_d (1617.6.2)

EQUIV. LATERAL FORCE Analysis procedure (1616.6, 1617.5)

.9k 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