



Client:	VERIZON WIRELESS	Date:	4/30/2025
Site Name:	DAMEN AND FOSTER - A		
MDG #:	5000270666		
Fuze ID #:	17333684	Page:	1

Version 2.10

I. Mount-to-Tower Connection Check

Custom Orientation Required

No

Tower Connection Bolt Checks

Yes

Bolt Orientation

Parallel

Bolt Quantity per Reaction:

4

d_x (in) (Delta X of typ. bolt config. sketch) :

2.5

d_y (in) (Delta Y of typ. bolt config. sketch) :

2

Bolt Type:

A36

Bolt Diameter (in):

0.625

Required Tensile Strength / bolt (kips):

0.0

Required Shear Strength / bolt (kips):

0.5

Tensile Capacity / bolt (kips):

10.0

Shear Capacity / bolt (kips):

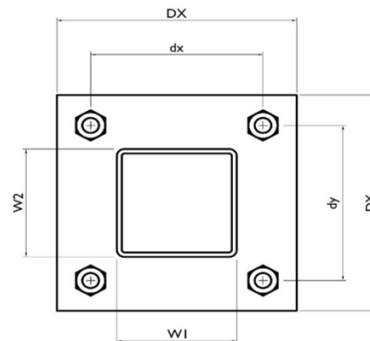
6.0

Bolt Overall Utilization:

8.4%

Tower Connection Baseplate Checks

No





Client:	VERIZON WIRELESS	Date:	4/30/2025
Site Name:	DAMEN AND FOSTER - A		
MDG #:	5000270666		
Fuze ID #:	17333684	Page:	2

Version 2.10

Tower Connection Weld Checks

No



ASCE Hazards Report

Address:

No Address at This Location

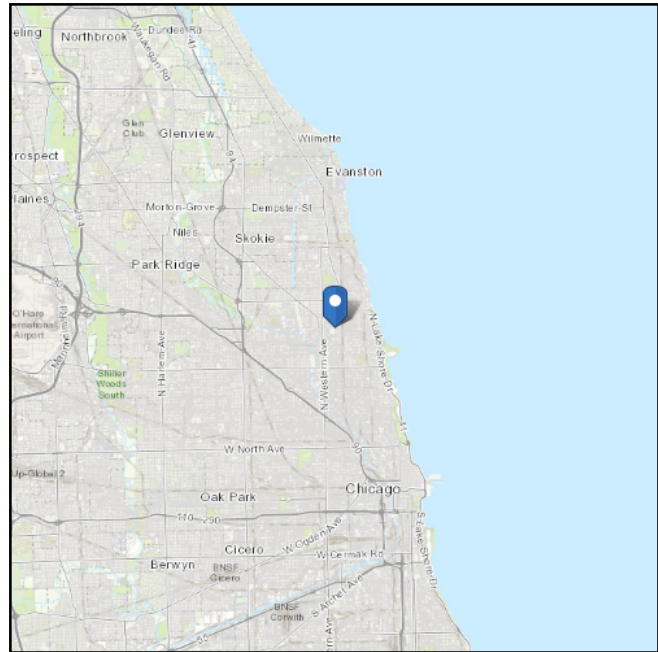
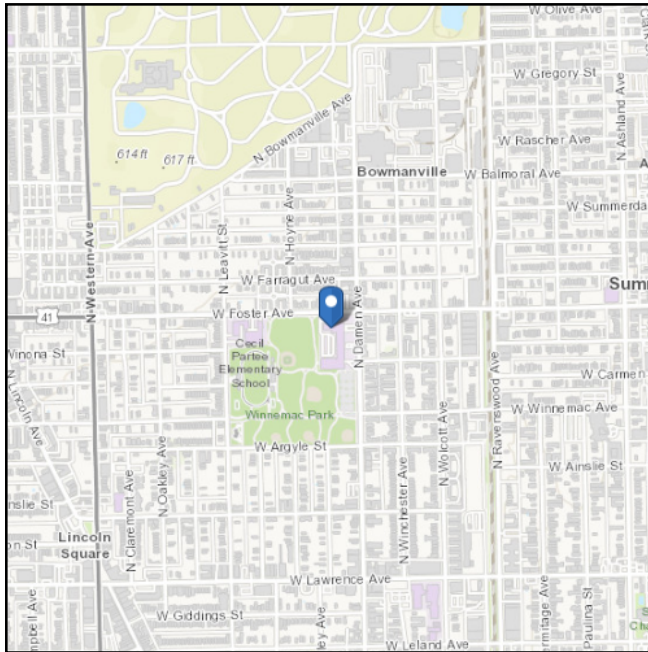
Standard: ASCE/SEI 7-16

Risk Category: II

Soil Class: D - Default (see Section 11.4.3)

Latitude: 41.975561

Longitude: -87.680389

Elevation: 596.9745596740514 ft (NAVD 88)


Wind

Results:

Wind Speed	107 Vmph
10-year MRI	73 Vmph
25-year MRI	82 Vmph
50-year MRI	85 Vmph
100-year MRI	92 Vmph

Data Source: ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2

Date Accessed: Thu Sep 19 2024

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-16 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

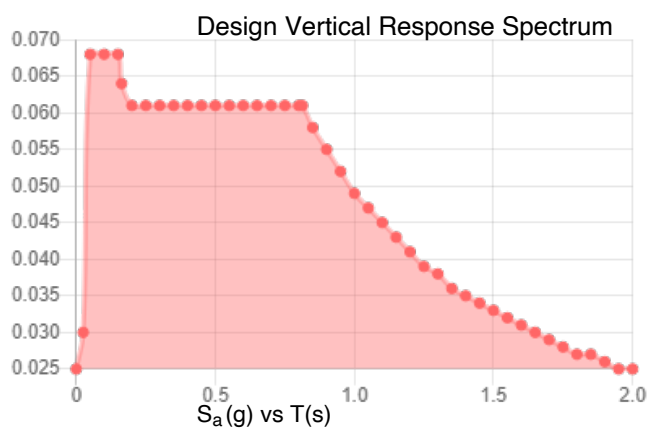
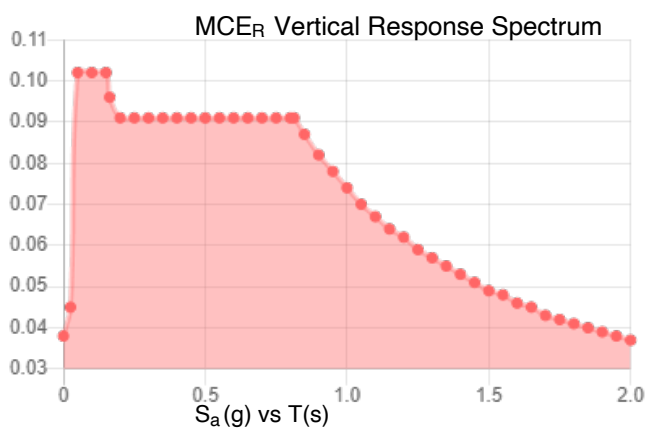
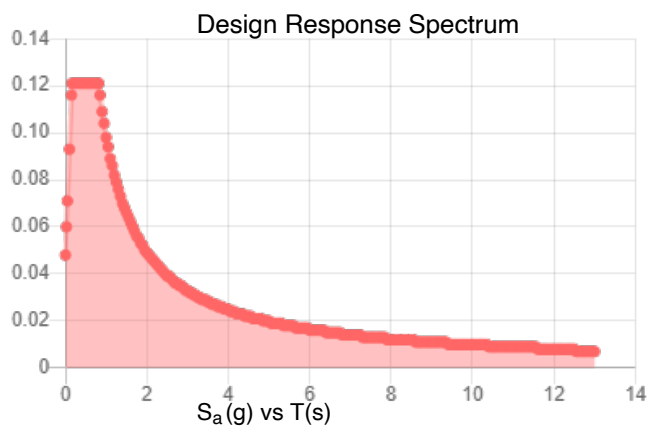
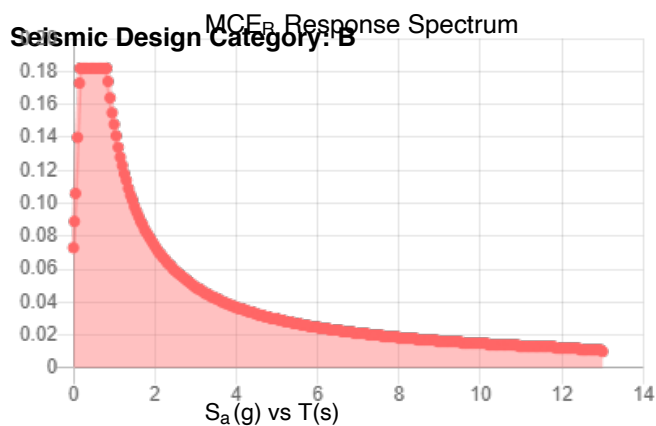
Site is not in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2.



Site Soil Class: D - Default (see Section 11.4.3)

Results:

S_S :	0.114	S_{D1} :	0.098
S_1 :	0.062	T_L :	12
F_a :	1.6	PGA :	0.057
F_v :	2.4	PGA _M :	0.091
S_{MS} :	0.182	F_{PGA} :	1.6
S_{M1} :	0.148	I_e :	1
S_{DS} :	0.121	C_v :	0.7



Data Accessed: Thu Sep 19 2024

Date Source:

USGS Seismic Design Maps based on ASCE/SEI 7-16 and ASCE/SEI 7-16 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-16 Ch. 21 are available from USGS.



Ice

Results:

Ice Thickness: 1.50 in.

Concurrent Temperature: 5 F

Gust Speed 40 mph

Data Source: Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8

Date Accessed: Thu Sep 19 2024

Ice thicknesses on structures in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 500-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from local meteorological studies. Ice thicknesses in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

The ASCE Hazard Tool is provided for your convenience, for informational purposes only, and is provided “as is” and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

ASCE does not intend, nor should anyone interpret, the results provided by this Tool to replace the sound judgment of a competent professional, having knowledge and experience in the appropriate field(s) of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the contents of this Tool or the ASCE standard.

In using this Tool, you expressly assume all risks associated with your use. Under no circumstances shall ASCE or its officers, directors, employees, members, affiliates, or agents be liable to you or any other person for any direct, indirect, special, incidental, or consequential damages arising from or related to your use of, or reliance on, the Tool or any information obtained therein. To the fullest extent permitted by law, you agree to release and hold harmless ASCE from any and all liability of any nature arising out of or resulting from any use of data provided by the ASCE Hazard Tool.