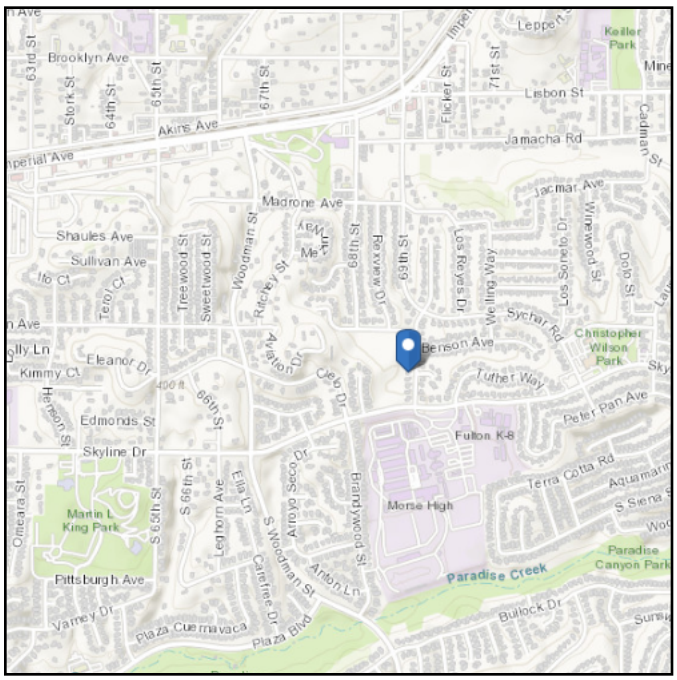
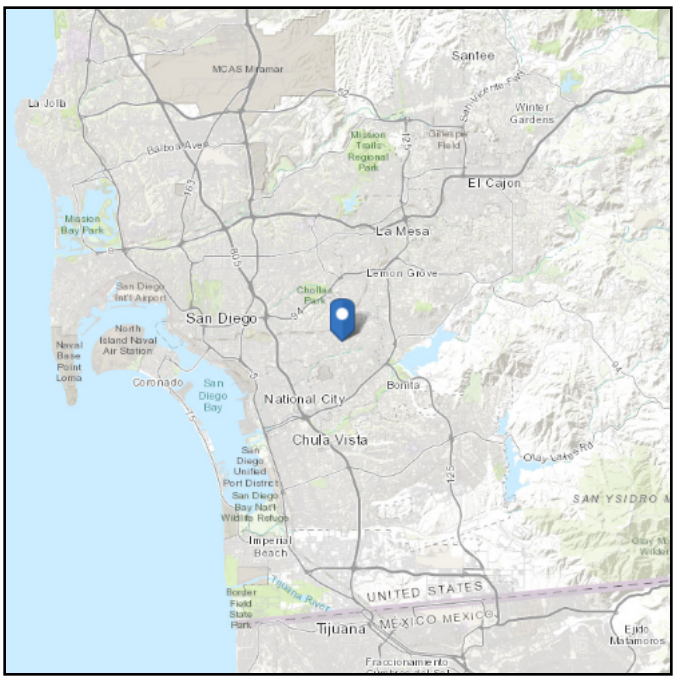
ASCE Hazards Report

Address:
No Address at This Location

Standard: ASCE/SEI 7-22
Risk Category: I
Soil Class: D - Stiff Soil

Latitude: 32.703691
Longitude: -117.049109
Elevation: 378.9196736411772 ft (NAVD 88)





Wind

Results:

Wind Speed	90 Vmph
10-year MRI	67 Vmph
25-year MRI	72 Vmph
50-year MRI	77 Vmph
100-year MRI	82 Vmph
300-year MRI	90 Vmph
700-year MRI	96 Vmph
1,700-year MRI	103 Vmph
3,000-year MRI	107 Vmph
10,000-year MRI	116 Vmph
100,000-year MRI	134 Vmph
1,000,000-year MRI	152 Vmph

Data Source: ASCE/SEI 7-22, Fig. 26.5-1A and Figs. CC.2-1–CC.2-4, and Section 26.5.2
Date Accessed: Wed Mar 19 2025

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 7-22 Standard. Wind speeds correspond to approximately a 15% probability of exceedance in 50 years (annual exceedance probability = 0.00333, MRI = 300 years). Values for 10-year MRI, 25-year MRI, 50-year MRI and 100-year MRI are Service Level wind speeds, all other wind speeds are Ultimate wind speeds.

Site is not in a hurricane-prone region as defined in ASCE/SEI 7-22 Section 26.2.

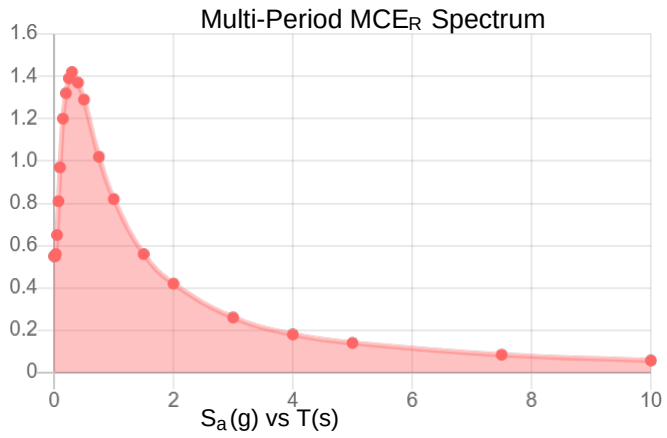
Seismic

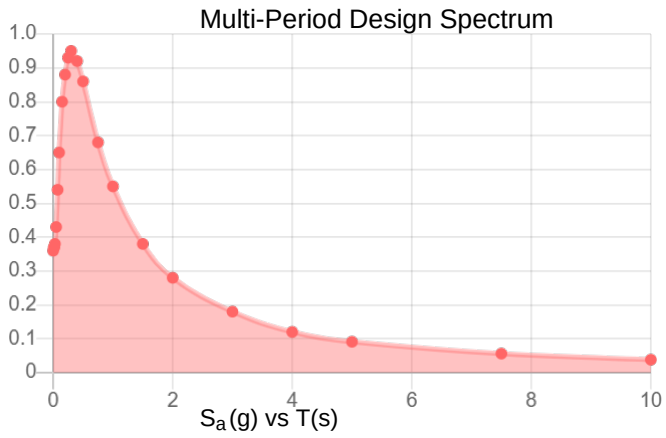
Site Soil Class: D - Stiff Soil

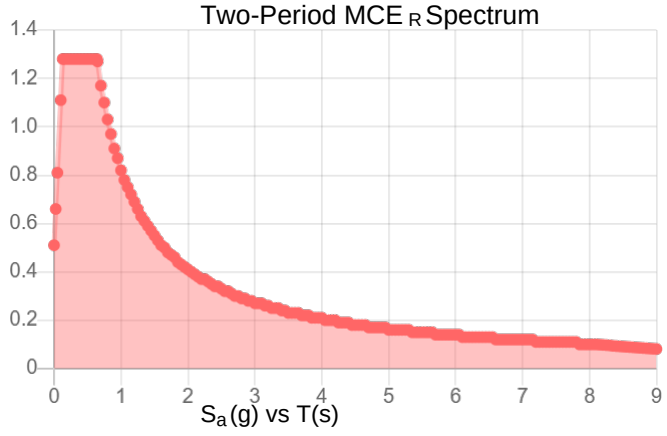
Results:

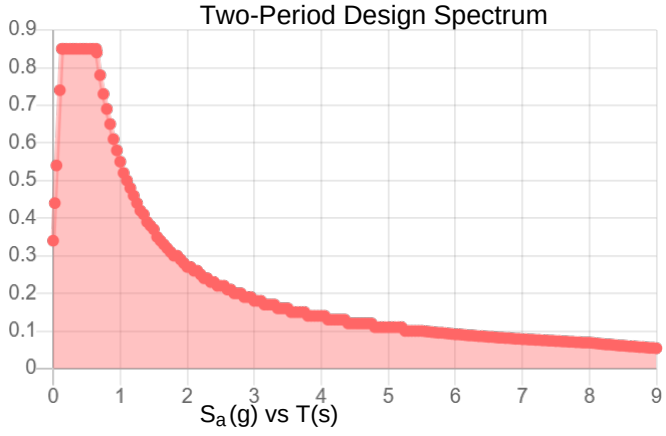
PGA_M :	0.49	T_L :	8
S_{MS} :	1.28	S_S :	1.04
S_{M1} :	0.82	S_1 :	0.32
S_{DS} :	0.85	V_{S30} :	260
S_{D1} :	0.55		

Seismic Design Category: D









MCE_R Vertical Response Spectrum

Vertical ground motion data has not yet been made available by USGS.

Design Vertical Response Spectrum

Vertical ground motion data has not yet been made available by USGS.

Data Accessed: **Wed Mar 19 2025**

Date Source:
USGS Seismic Design Maps based on ASCE/SEI 7-22 and ASCE/SEI 7-22 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-22 Ch. 21 are available from USGS.

Snow

Results:

Ground Snow Load, p_g :	1 lb/ft^2
20-year MRI Value:	1 lb/ft^2
Winter Wind Parameter:	0.25
Mapped Elevation:	316.1 ft
Data Source:	ASCE/SEI 7-22, Figures 7.6-1 and 7.6-2 A-D
Date Accessed:	Wed Mar 19 2025
	Values provided are ground snow loads. In areas designated "case study required," extreme local variations in ground snow loads preclude mapping at this scale. Site-specific case studies are required to establish ground snow loads at elevations not covered.
	Snow load values are mapped to a 0.5 mile resolution. This resolution can create a mismatch between the mapped elevation and the site-specific elevation in topographically complex areas. Engineers should consult the local authority having jurisdiction in locations where the reported ‘elevation’ and ‘mapped elevation’ differ significantly from each other.
Ground Snow Loads for IRC only, $p_{g(asd)}$:	0.7 lb/ft^2