

USGS Design Maps Summary Report

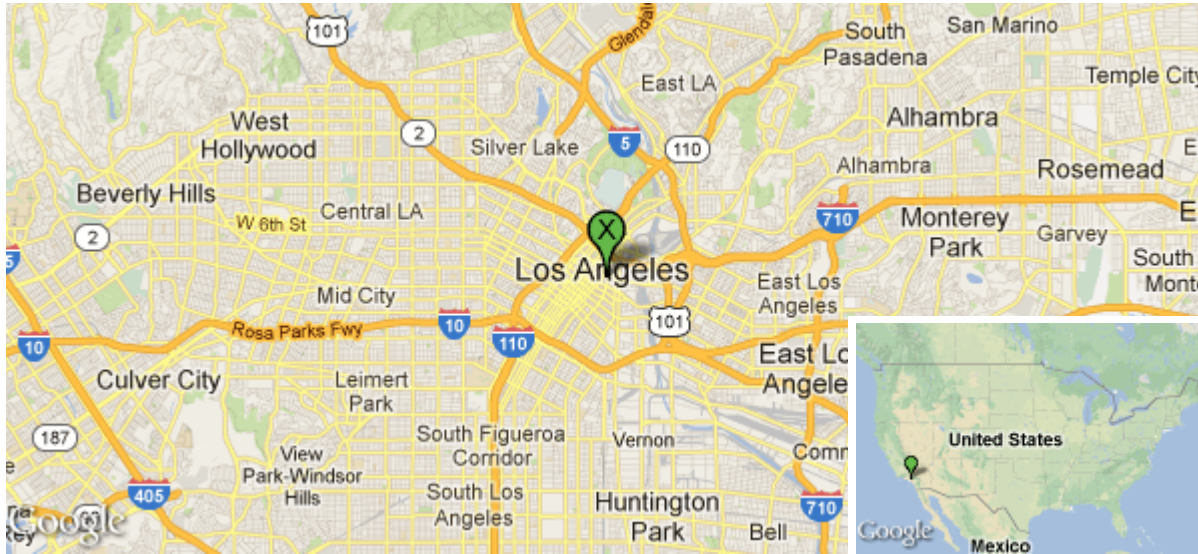
User-Specified Input

Building Code Reference Document 2006/2009 International Building Code
(which makes use of 2002 USGS hazard data)

Site Coordinates 34.05008°N, 118.24225°W

Site Soil Classification Site Class C – “Very Dense Soil and Soft Rock”

Occupancy Category Occupancy Category I



USGS–Provided Output

$$S_s = 2.168 \text{ g}$$

$$S_{MS} = 2.168 \text{ g}$$

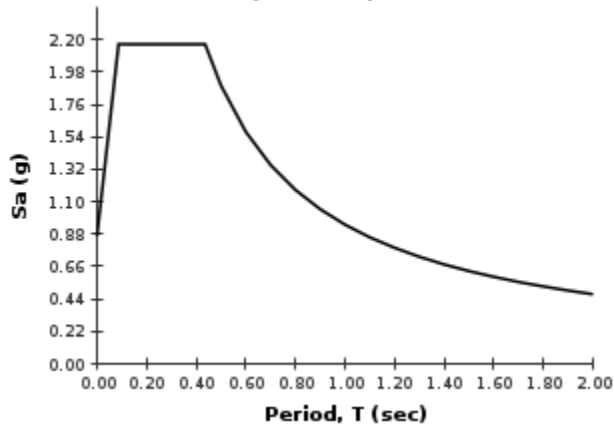
$$S_{DS} = 1.445 \text{ g}$$

$$S_1 = 0.726 \text{ g}$$

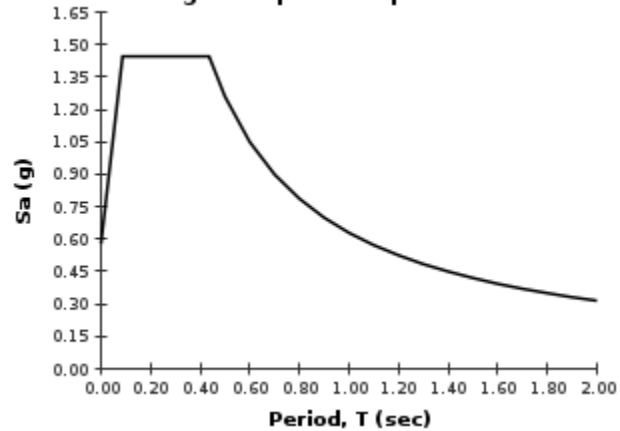
$$S_{M1} = 0.944 \text{ g}$$

$$S_{D1} = 0.629 \text{ g}$$

MCE Response Spectrum



Design Response Spectrum



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