

ASCE Hazards Report

Address:

412 Sandy Ridge Dr
League City, Texas
77573

Standard:

ASCE/SEI 7-10

Risk Category: I**Soil Class:**

A - Hard Rock

Latitude:

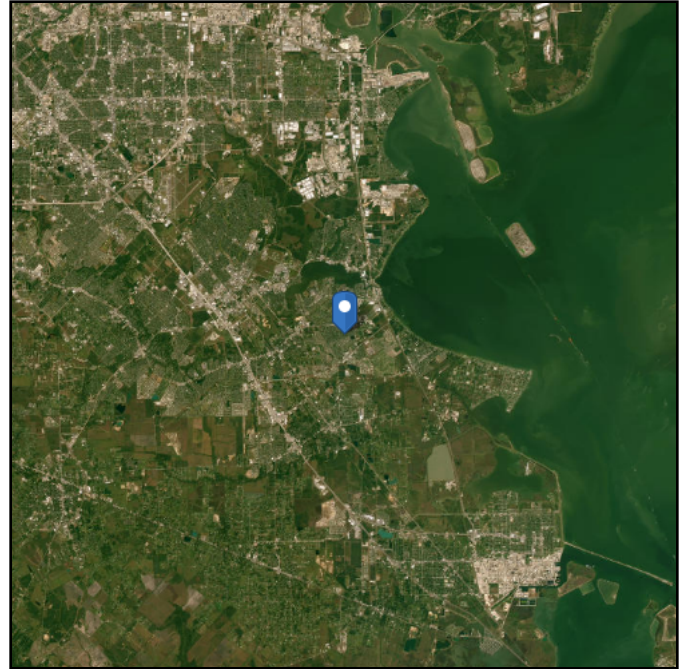
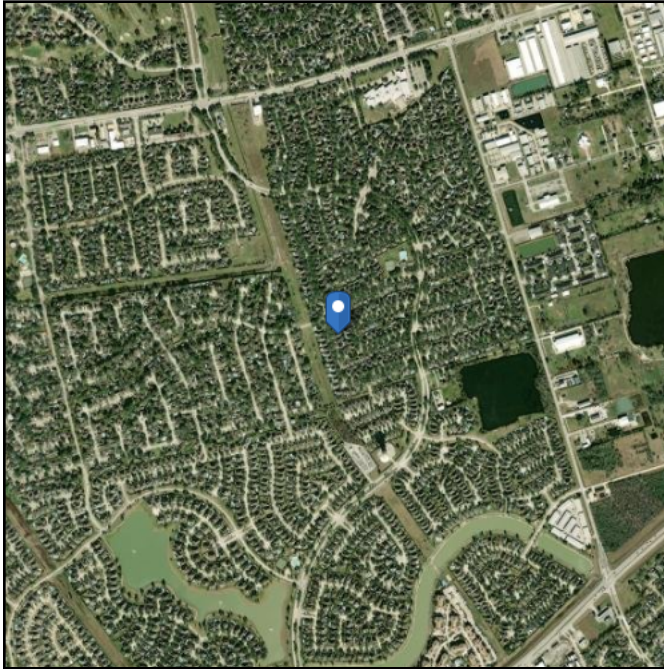
29.519131

Longitude:

-95.043252

Elevation:

17.3847183384632 ft (NAVD
88)



Wind

Results:

Wind Speed	134 Vmph
10-year MRI	78 Vmph
25-year MRI	97 Vmph
50-year MRI	110 Vmph
100-year MRI	121 Vmph

Data Source:

ASCE/SEI 7-10, Fig. 26.5-1C and Figs. CC-1–CC-4, and Section 26.5.2,
incorporating errata of March 12, 2014

Date Accessed:

Sat Jul 27 2024

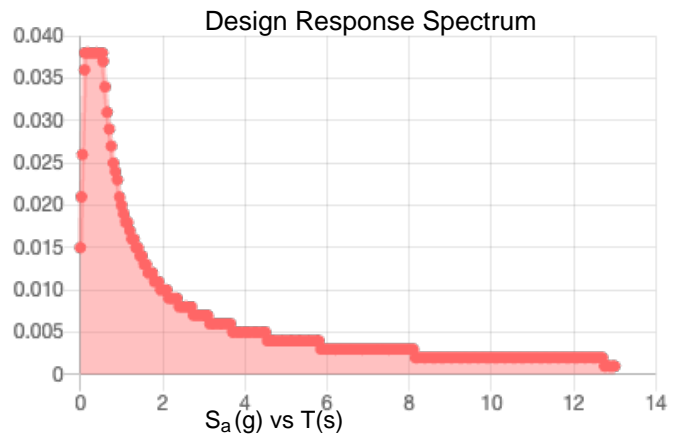
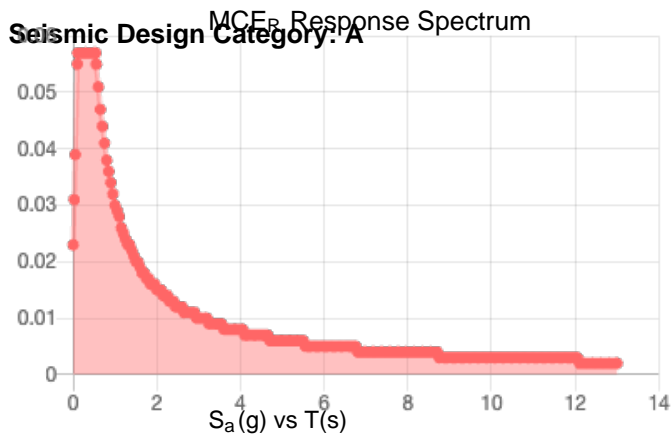
Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-10 Standard. Wind speeds correspond to approximately a 15% probability of exceedance in 50 years (annual exceedance probability = 0.00333, MRI = 300 years).

Site is in a hurricane-prone region as defined in ASCE/SEI 7-10 Section 26.2. Glazed openings need not be protected against wind-borne debris.

Site Soil Class: A - Hard Rock

Results:

S_S :	0.071	S_{D1} :	0.02
S_1 :	0.038	T_L :	12
F_a :	0.8	PGA :	0.034
F_v :	0.8	PGA_M :	0.027
S_{MS} :	0.057	F_{PGA} :	0.8
S_{M1} :	0.03	I_e :	1
S_{DS} :	0.038		



Data Accessed: Sat Jul 27 2024

Date Source:

USGS Seismic Design Maps based on ASCE/SEI 7-10, incorporating Supplement 1 and errata of March 31, 2013, and ASCE/SEI 7-10 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-10 Ch. 21 are available from USGS.

Ice

Results:

Ice Thickness: 0.50 in.
Concurrent Temperature: 15 F
Gust Speed 30 mph

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

Date Accessed: Sat Jul 27 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 50-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.

Snow

Results:

Ground Snow Load, p_g : 0 lb/ft²
Mapped Elevation: 17.4 ft

Data Source: ASCE/SEI 7-10, Fig. 7-1.

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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.

Rain

Results:

15-minute Precipitation Intensity: 11 in./h

60-minute Precipitation Intensity: 5.34 in./h

Data Source: NOAA National Weather Service, Precipitation Frequency Data Server, Atlas 14
(<https://www.nws.noaa.gov/oh/hdsc/>)

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Results:

Flood Zone Categorization: X (unshaded)

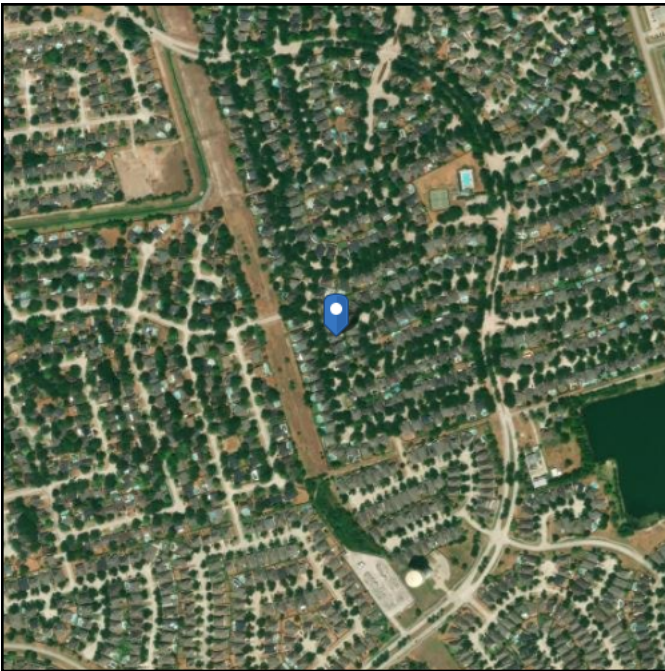
Base Flood Elevation:

Data Source: FEMA National Flood Hazard Layer - Effective Flood Hazard Layer for US, where modernized (<https://msc.fema.gov/portal/search>)

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FIRM Panel: If available, download FIRM panel [here](#)

Insurance Study Note: Download FEMA Flood Insurance Study for this area [here](#)



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