SITE CLASS DEFINITIONS AVERAGE PROPERTIES IN TOP 100 feet, SEE SECTION 1613.5.5 SOIL PROFILE Standard penetration resistance,  $\overline{N}$ 

Soil shear wave velocity, Vs, (ft/s)

SITE

CLASS

NAME

02,100	, martine				
Α	Hard rock	$\overline{v}_s > 5,000$	N/A	N/A	
В	Rock	$2,500 < \overline{v}_s \le 5,000$	N/A	N/A	
С	Very dense soil and soft rock	$1,200 < \overline{v}_s \le 2,500$	$\overline{N} > 50$	$\overline{s}_{y} \geq 2,000$	
D	Stiff soil profile	$600 \le \overline{v}_s \le 1,200$	$15 \le \overline{N} \le 50$	1,000 ≤ \$\overline{s}_{\overline{\sigma}} \le 2,000	
E	Soft soil profile	$\overline{v}_{s} < 600$	$\overline{N}$ < 15	$\overline{s}_{p} < 1,000$	
E	-	Any profile with more than 10 feet of soil having the following characteristics:  1. Plasticity index $PI > 20$ ,  2. Moisture content $w \ge 40\%$ , and  3. Undrained shear strength $\overline{s}_u < 500 \text{ psf}$			
F	_	<ul> <li>Any profile containing soils having one or more of the following characteristics:</li> <li>1. Soils vulnerable to potential failure or collapse under seismic loading such as liquefiable soils, quick and highly sensitive clays, collapsible weakly cemented soils.</li> <li>2. Peats and/or highly organic clays (H&gt; 10 feet of peat and/or highly organic clay where H = thickness of soil)</li> </ul>			
		3. Very high plasticity clays ( $H > 25$ feet with plasticity index $PI > 75$ )			

4. Very thick soft/medium stiff clays (H > 120 feet)

TABLE 1613.5.2

Soil undrained shear strength, s, (psf)