CITY OF MILPITAS
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BUILDING AND STRUCTURAL DESIGN CRITERIA

The purpose of this guideline is to provide a summary of the code adoption and design criteria applicable to the City of Milpitas. The design criteria shall be used as the basis for proposed building and structural design in this jurisdiction.

Building Design Criteria

- 2022 California Building Code (CBC)
- 2022 California Residential Code (CRC)
- 2022 California Mechanical Code (CMC)
- 2022 California Electrical Code (CEC)
- 2022 California Plumbing Code (CPC)
- 2022 California Energy Code (CEnC)
- 2022 California Green Building Code (CALGreen)
- 2022 California Existing Building Code
- 2022 California Fire Code (CFC)
- 2021 International Swimming Pool and Spa Code
- 2023 Milpitas Municipal Code (MMC)

Structural Design Criteria

- **Wind Speed:**
  Design wind speeds can be found on the ASCE 7 Hazard Tool website.

- **Seismic Hazard:**
  Seismic hazard design values can be found on the ASCE 7 Hazard Tool website.

- **Foundation Design Parameters:**
  The following foundation design parameters shall be used unless higher values are justified by a soils report:

  Footing (CBC Table 1806.2)

Allowable Soil Bearing Pressure	=	1500 psf
Allowable Lateral Bearing Pressure	=	100 psf/ft below natural grade
Allowable Sliding Resistance	=	Min. of [(130 psf x A) not to exceed (0.5 x DL)] where A = footing/soil contact area, DL = dead load on footing
Allowable Frictional Resistance for Piers (CBC Sec. 1810.3.3.1.4)	=	250 psf
Allowable Lateral Bearing Pressure for Isolated Poles (for uses such as flagpoles, signs and fences that are not adversely affected by a 0.5" motion at the ground surface due to short-term lateral load) (CBC sec. 1806.1, 1806.2 & 1806.3)	=	266 psf/ft

Energy Design Criteria – Title 24, Part 6

- **Climate Zone:** CA Energy Code, Figure 100.1-A 4
- **Design Day Data:**

1.00% Dry Bulb	85°F
1.00% Mean Coincident Wet Bulb	65°F
Winter Median of Extremes	27°F

2022 Joint Appendices, App. JA 2-19
Table 2-3: Design Day Data for California Cities

Building Climate Design Criteria – California Building Code, Part 2, Volumes 1 & 2

- **Climate Zone:** Intl. Energy Conservation Code, Table C301.1 3C
  CBC Table 1202.3.1 3 marine