



DESIGN REQUIREMENTS FOR THE CITY OF CHICO

General

- Governing **Building Standards** to be the “International Building Code”, 2012 Edition, as adopted and modified by the State of California in reference to the 2013 California Building Code.
- Governing **Residential Standards** to be the “International Residential Code”, 2012 Edition, as adopted and modified by the State of California in reference to the 2013 California Residential Code.
- Governing **Electrical Standards** to be the “International Electrical Code”, 2011 Edition, as adopted and modified by the State of California in reference to the 2013 California Electrical Code.
- Governing **Mechanical Standards** to be the “International Mechanical Code”, 2012 Edition, as adopted and modified by the State of California in reference to the 2013 California Mechanical Code.
- Governing **Plumbing Standards** to be the “International Plumbing Code”, 2012 Edition, as adopted and modified by the State of California in reference to the 2013 California Plumbing Code.
- Governing **Fire Regulation Standards** to be the “International Fire Code”, 2012 Edition, as adopted and modified by the State of California in reference to the 2013 California Fire Code.
- Governing **Energy Standards** to be the “California Energy Standards”, 2010 Edition.
- Governing **Green Building Standards** to be the “California Green Building Standards” 2013 Edition, as adopted and modified by the State of California in reference to the 2013 California Green Building Standards Code.
- **Required minimum plan size to be 24” X 36” sheet.**
- **All sheets are to be scaled and dimensioned** (1”-20’ Site Plan & ¼”-1” Architectural plans and details).
- **Refer to the “Minimum Plan Standards” handout for specific plan submittal details required.**
- **All plan sheets are to be wet stamped and or signed by the Designer.**

<u>Gravity Loads</u>
<ul style="list-style-type: none"> • In accordance with 2013 California Building Code (Chapter 16) and ASCE 7-10. • No snow load.
<u>Wind Loads</u>
<ul style="list-style-type: none"> • In accordance with 2013 California Building Code (Chapter 16) and ASCE 7-10. • Wind design is now based on ultimate wind speed. (Figure 1609A,B,C)
<u>Seismic Loads</u>
<ul style="list-style-type: none"> • In accordance with 2013 California Building Code (Chapter 16) and ASCE 7-10. • When soil properties are not known Site Class D shall be used. (Section 1613.3.2). • Seismic Design Category defines permissible structural systems, limitations on height and irregularity, permitted lateral force procedure, and required level of strength and seismic detailing. SDC ranges from A through F and is dependent on ground motion, soil characteristics and risk category. (Most structures in City of Chico will be in SDC D).
<u>Soils and Foundations</u>
<ul style="list-style-type: none"> • In accordance with 2013 California Building Code (Chapter 18) and ASCE 7-10. • Soil Site Class is D with a bearing of 1500 psf or as specified in a soil report. • Lateral bearing below natural grade to be 200 psf/f or as specified in a soil report. • Frost line depth = 0"
<u>Concrete</u>
<ul style="list-style-type: none"> • In accordance with 2013 California Building Code (Chapter 19) and Reference Standard "<i>Building Code Requirements for Structural Concrete</i>" (ACI 318-11). • 3000 psi compressive strength concrete required for structures assigned to SDC D, E or F. (Exception: light-framed construction, 2 stories or less in height may use 2500 psi concrete).

Masonry

- In accordance with 2013 California Building Code (Chapter 21) and Reference Standard “*Building Code Requirements for Masonry Structures*” (ACI 530-11 / ASCE 5-11 / TMS 402-11).
- “Half-Stress” design of masonry without special inspection is not permitted.
- All masonry requires a minimum level of special inspection (1704.5)

Steel

- In accordance with 2013 California Building Code (Chapter 22) and Reference Standard “*Specification for Structural Steel Buildings*” (AISC 360-10). AISC 360-10 combines LRFD and ASD. AISI S100-07/SI-10 for Cold-Formed Steel.
- Structural steel structures assigned to SDC D, E or F shall be designed and detailed in accordance with AISC 341-10, Part I. (2205.2.2)

Wood

- In accordance with 2013 California Building Code (Chapter 23) and Reference Standard “*National Design Specifications for Wood Construction*” 2012 Edition combines LRFD and ASD.
- An engineered lateral design is required for irregularly shaped buildings as defined in 2308.12.6.
- Conventional construction is limited to one story in SDC D and E and 2 stories in SDC C. (Except detached one and two family dwellings may be 2 stories in SDC D&E and 3 stories in SDC C). (2308.11 and 2308.12)
- Cripple walls with studs exceeding 14” are considered a story for the purposes of applying braced wall requirements. (2308.2, 2308.9.4.1 and 2308.12.4)
- For conventional bracing use column $.50 < S_d < .75$ of Table 2308.12.4.

Special Inspection

- In accordance with 2013 California Building Code (Chapter 17).
- Unless otherwise required by the Building Official, Group U occupancies accessory to residential occupancies are exempt from special inspections. (1704.1 exception 3)