

**DIVISION OF THE STATE ARCHITECT  
STATE HISTORICAL BUILDING SAFETY BOARD**

**CALIFORNIA HISTORICAL BUILDING CODE  
CALIFORNIA CODE OF REGULATIONS  
TITLE 24, PART 8**

**PART 8  
CALIFORNIA HISTORICAL BUILDING CODE**

ENFORCING AUTHORITY	Local Building Official		
	DSA		
ADOPTING AGENCY	HB	AC	SS
Adopt entire Part 8	X		
Adopt entire chapter with amendments listed below			
Adopt only those sections listed below			

<sup>1</sup> **H&SC 18958** Except as provided in Section 18930, the following state agencies, in addition to the State Historical Building Safety Board, shall have the authority to adopt rules and regulations pursuant to the State Historical Building Code governing the rehabilitation, preservation, restoration, related reconstruction, safety, or relocation of qualified historical buildings and structures within their jurisdiction:

- (a) The Division of the State Architect.
- (b) The State Fire Marshal.
- (c) The State Building Standards Commission, but only with respect to approval of building standards.
- (d) The Department of Housing and Community Development.
- (e) The Department of Transportation.
- (f) Other state agencies that may be affected by this part.

PART 8 IS ALSO REPRINTED IN THE CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2 (CALIFORNIA BUILDING CODE), CHAPTER 34 (EXISTING STRUCTURES), REPLACING IBC SECTION 3407 (HISTORIC BUILDINGS).

**CHAPTER 34  
EXISTING STRUCTURES**

ENFORCING AUTHORITY	Local Building Official		
	DSA		
ADOPTING AGENCY	HB	AC	SS
Adopt entire Chapter without amendments			
Adopt entire chapter with amendments listed below			
Adopt only those sections listed below	X		
3407 CA	X		

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**CHAPTER 8-1  
ADMINISTRATION**

**Note.** The California Historical Building Code, Part 8 of Title 24, governs for all qualified historical buildings or properties in the State of California.

**SECTION 8-101  
TITLE, PURPOSE AND INTENT**

**8-101.1 Title.** These regulations shall be known as the *California Historical Building Code* and will be referred to herein as "the CHBC."

**8-101.2 Purpose.** *The purpose of the CHBC is to provide regulations for the preservation, restoration, rehabilitation, relocation or reconstruction, of buildings or properties designated as qualified historical buildings or properties (Chapter 8-2). The CHBC is intended to provide solutions for the preservation of qualified historical buildings or properties, to promote sustainability, to provide access for persons with disabilities, to provide a cost-effective approach to preservation, and to provide for the reasonable safety of the occupants or users. The CHBC requires enforcing agencies to accept solutions that are reasonably equivalent to the regular code (as defined in Chapter 8-2) when dealing with qualified historical buildings or properties.*

**8-101.3 Intent.** *The intent of the CHBC is to facilitate the preservation and continuing use of qualified historical buildings or properties while providing reasonable safety for the building occupants and access for people with disabilities.*

**SECTION 8-102  
APPLICATION**

**8-102.1 Application.** *The CHBC is applicable to all issues regarding code compliance for qualified historical buildings or properties. The CHBC may be used in conjunction with the regular code to provide solutions to facilitate the preservation of qualified historical buildings or properties. The CHBC shall be used by any agency with jurisdiction and whenever compliance with code is required for qualified historical buildings or properties.*

**1.** *The state or local enforcing agency, pursuant to authority provided under Section 18954 of the Health and Safety Code, shall apply the provisions of the CHBC in permitting repairs, alterations, and additions necessary for the preservation, restoration, reconstruction, rehabilitation, relocation or continued use of a qualified historical building or property when so elected by the private property owner.*

**2. State Agencies.** *All state agencies shall apply the provisions of in the CHBC in permitting repairs, alterations, and additions necessary for the preservation, restoration, rehabilitation, safety, relocation, reconstruction, or continued use of qualified historical buildings or properties.*

**8-102.1.1 Additions, alterations and repairs.** *It is the intent of the CHBC to allow non-historical expansion or addition to a qualified historical building or property provided non-historical additions shall conform to the requirements of the regular code. See Chapter 8-2.*

**8-102.1.2 Relocation.** *Relocated qualified historical buildings or properties shall be sited to comply with the regular code or with the **solutions** listed in the CHBC. Non-historical new construction related to relocation shall comply with regular code. Historical reconstruction and restoration related to relocation is permitted to comply with the provisions in the CHBC.*

**8-102.1.3 Change of Occupancy.** *For change of use or occupancy, see Chapter 8-3, Use and Occupancy.*

**8-102.1.4 Continued use.** *Qualified historical buildings or properties may have their existing use or occupancy continued if such use or occupancy conformed to the code or to the standards of construction in effect at the time of construction, and such use or occupancy does not constitute a distinct hazard to life-safety as defined in the CHBC.*

**8-102.1.5 Un-safe Buildings or Properties.** *When a qualified historical building or property is determined to be un-safe as defined in the regular code, the requirements of the CHBC are applicable to the work necessary to correct the un-safe conditions. Work to remediate the building or properties need only address the correction of the un-safe conditions, and it shall not be required to bring the entire qualified historical building or property into compliance with regular code.*

**8-102.1.6 Additional Work.** *Qualified historical buildings or properties shall not be subject to additional work required by the regular code, regulation or ordinance beyond that required to complete the work undertaken. Certain exceptions for accessibility and for distinct hazards exist by mandate and may require specific action, within the parameters of the CHBC.*

### **SECTION 8-103 ORGANIZATION AND ENFORCEMENT**

**8-103.1 Authority.** *The state or local enforcing agency, pursuant to authority provided under Section 18954 of the Health and Safety Code, shall administer and enforce the provisions of the CHBC in permitting repairs, alterations, and additions necessary for the preservation, restoration, reconstruction, rehabilitation, relocation or continued use of a qualified historical building or property.*

**8-103.2 State Enforcement.** *All state agencies pursuant to authority provided under Section 18954 and Section 18961 of the Health and Safety Code shall administer and enforce the CHBC with respect to qualified historical buildings or properties under their respective jurisdiction.*

**8-103.3 Liability.** *Prevailing law regarding immunity of building officials is unaffected by the use and enforcement of the CHBC.*

### **SECTION 8-104 REVIEW AND APPEALS**

**8-104.1 State Historical Building Safety Board (SHBSB).** *In order to provide for interpretation of the provisions of the CHBC and to hear appeals, the SHBSB shall act as an appeal and review body to state and local agencies and any affected party.*

**8-104.2 SHBSB Review.** *When a proposed design, material or method of construction is being considered by the enforcing agency, the agency chief, the building official or the local board of appeals may file a written request for opinion to the SHBSB for its consideration, advice or findings. In considering such request, the SHBSB may seek the advice of other appropriate private or public boards, individuals, or state or local agencies. The SHBSB shall, after considering all of the facts presented, including any recommendation of other appropriate boards, agencies or other parties, determine if, for the purpose intended, the proposal is reasonably equivalent to that allowed by these regulations in proposed design, material or method of construction, and it shall transmit such findings and its decision to the enforcing agency for its application. The Board may recover the costs of such reviews and shall report the decision in printed form, copied to the California Building Standards Commission.*

**8-104.2.1 State Agencies.** *All state agencies with ownership of, or that act on behalf of state agency owners of qualified historical buildings or properties, shall consult and obtain SHBSB review prior to taking action or making decisions or appeals that affect qualified historical buildings or properties, per section 18961 of Health and Safety Code.*

**8-104.2.2 Imminent Threat.** *Where an emergency is declared and a qualified historical building or property is declared an imminent threat to life and safety, the state agency assessing such a threat shall consult with the SHBSB before any demolition is undertaken, per section 18961 of Health and Safety Code.*

**8-104.3 SHBC Appeals.** *If any local agency administering and enforcing the CHBC or any person adversely affected by any regulation, rule, omission, interpretation, decision, or practice of the agency enforcing the CHBC wishes to appeal the issue for resolution to the SHBSB, either of these parties may appeal directly to the Board. The Board may accept the appeal only if it determines that issues involved are of statewide significance. The Board may recover the costs of such reviews and shall make available copies of decisions in printed form at cost, copied to the California Building Standards Commission.*

**8-104.4 Local Agency Fees.** *Local agencies, when actively involved in the appeal, may also charge affected persons reasonable fees not to exceed the cost of obtaining reviews and appeals from the Board.*

### **SECTION 8-105 CONSTRUCTION METHODS AND MATERIALS**

**8-105.1 Repairs.** *Repairs to any portion of a qualified historical building or property may be made in-kind with historical materials and the use of original or existing historical methods of construction, subject to conditions of the*

CHBC. (See Chapter 8-8.)

**8-105.2 Alternatives to the California Historical Building Code.** Solutions provided in the CHBC, or any other acceptable regulation or methodology of design or construction and used in whole or in part, with the regular code, or with any combination of the regular code and the CHBC shall be allowed. The CHBC does not preclude the use of any proposed alternative or method of design or construction not specifically prescribed or otherwise allowed by these regulations. Any alternative may be submitted for evaluation to the appropriate enforcing agency for review and acceptance. The enforcing agency may request that sufficient evidence or proof be submitted to substantiate any claims that may be made regarding such solutions. Any alternative offered in lieu of that prescribed or allowed in the CHBC shall be reasonably equivalent in quality, strength, effectiveness, durability and safety to that of the CHBC.

## **SECTION 8-106 SHBSB RULINGS**

**8-106.1 General.** Rulings of the SHBSB (i.e. formal appeals, case decisions, code interpretations and administrative resolutions, etc.) that are issues of statewide application are required to be submitted to the California Building Standards Commission in printed form. These rulings may be used to provide guidance for similar cases or issues.

## **CHAPTER 8-2 DEFINITIONS**

**SECTION 8-201 – DEFINITIONS** For the purpose of the CHBC, certain terms and phrases, words, and their derivatives shall be construed as specified in this chapter. Additional definitions and / or terms may appear in the various other chapters relative to terms or phrases primarily applicable thereto. Any reference to “authority having jurisdiction” does not necessarily preclude the appellate process of Section 8-104.3.

**ADDITION.** A non-historical extension or increase in floor area or height of a building or property.

**ALTERATION.** A modification to a qualified historical building or property that affects the usability of the building or property, or part thereof. Alterations include, but are not limited to, remodeling, renovation, rehabilitation, reconstruction, historical restoration, changes or rearrangement of the structural parts or elements, and changes or rearrangements in the plan configuration of walls and full-height partitions.

**BUILDING STANDARD.** Any guideline, regulation or code that may be applied to a qualified historical building or property.

**CHARACTER-DEFINING FEATURES.** Those visual aspects and physical elements that comprise the appearance of a historical building or property, and that are significant to its historical, architectural and cultural values, including the overall shape of the historical building or property, its materials, craftsmanship, decorative details, interior spaces and features, as well as the various aspects of its site and environment.

**CULTURAL RESOURCE.** Building, site, structure, property, object, or district evaluated as having significance in pre-history or history.

**DISTINCT HAZARD.** Any clear and evident condition that exists as an immediate danger to the safety of the occupants or the public right of way. Conditions that do not meet the requirements of current regular codes and ordinances do **not**, of themselves, constitute a distinct hazard. Section 8-104.3 SHBC Appeals, remains applicable.

**ENFORCING AGENCY.** Authority Having Jurisdiction, local agency with jurisdiction. An entity with the responsibility for regulating, enforcing, reviewing or otherwise that exerts control of or administration over the process of granting permits, approvals, decisions, variances, appeals for qualified historical buildings or properties.

**EXIT LADDER DEVICE.** An exit ladder device is a permanently installed, fixed, folding, retractable, or hinged ladder intended for use as a means of emergency egress from areas of the second or third stories. Unless approved specifically for a longer length, the ladder shall be limited to 25 feet (7620 mm) in length. Exit ladders are permitted where the area served by the ladder has an occupant load of less than 10 persons.

**FIRE HAZARD.** Any condition which increases, or may contribute to an increase in the hazard or menace of fire to a greater degree than customarily recognized by the authority having jurisdiction, or any condition or act which could obstruct, delay, hinder or interfere with the operations of fire fighting personnel or the egress of occupants in the event of fire. Section 8-104.3 SHBC Appeals remain applicable.

**HISTORICAL FABRIC OR MATERIALS.** Original and later-added historically significant construction materials, architectural finishes or elements in a particular pattern or configuration which form a qualified historical property, as determined by the authority having jurisdiction.

**HISTORICAL SIGNIFICANCE.** Importance for which a property has been evaluated and found to be historical, as determined by the authority having jurisdiction.

**IMMINENT THREAT.** Any condition within or affecting a qualified historical building or property which, in the opinion of the authority having jurisdiction, would qualify a building or property as dangerous to the extent that the life, health, property or safety of the public, its occupants or those performing necessary repair, stabilization or shoring work are in immediate peril due to conditions affecting the building or property. Potential hazards to persons using, or improvements within, the right-of-way may not be construed to be "imminent threats" solely for that reason if the hazard can be mitigated by shoring, stabilization, barricades or temporary fences.

**INTEGRITY.** Authenticity of a building or property's historical identity, evidenced by the survival of physical characteristics that existed during the property's historical or prehistorical period of significance.

**LIFE SAFETY EVALUATION.** An evaluation of the life safety hazards of a qualified historical building or property based on procedures similar to those contained in NFPA 909, Standard for the Protection of Cultural Resources, Appendix B, Fire Risk Assessment in Heritage Premises.

**LIFE SAFETY HAZARD.** See Distinct Hazard.

**PERIOD OF SIGNIFICANCE.** The period of time when a qualified historical building or property was associated with important events, activities, or persons, or attained the characteristics for its listing or registration.

**PRESERVATION.** The act or process of applying measures necessary to sustain the existing form, integrity, and materials of a qualified historical building or property. Work, including preliminary measures to protect and stabilize the property, generally focuses upon the ongoing maintenance and repair of historical materials and features rather than extensive replacement and new construction. New exterior additions are not within the scope of this treatment; however, the limited and sensitive upgrading of mechanical, electrical, and plumbing systems and other code-related work to make properties functional is appropriate within a preservation project.

**QUALIFIED HISTORICAL BUILDING OR PROPERTY.** As defined in Health and Safety Code §18955 as Qualified Historical Building or Property. Any building, site, structure, object, place, location, district or collection of structures, and their associated sites, deemed of importance to the history, architecture, or culture of an area by an appropriate local, state or federal governmental jurisdiction. This shall include historical buildings or properties on, or determined eligible for, national, state or local historical registers or inventories, such as the National Register of Historic Places, California Register of Historical Resources, State Historical Landmarks, State Points of Historical Interest, and city or county registers, inventories, or surveys of historical or architecturally significant sites, places or landmarks.

**RECONSTRUCTION.** The act or process of depicting, by means of new construction, the form, features, and detailing of a non-surviving site, landscape, building, structure, property, or object for the purpose of replicating its appearance at a specific period of time.

**REGULAR CODE.** The adopted regulations that govern the design and construction or alteration of non-historical buildings and properties within the jurisdiction of the enforcing agency.

**REHABILITATION.** The act or process of making possible a compatible use for qualified historical building or property through repair, alterations, and additions while preserving those portions or features which convey its historical, cultural, or architectural values.

**RELOCATION.** The act or process of moving any qualified historical building or property or a portion of a qualified historical building or property to a new site, or a different location on the same site.

**REPAIR.** Renewal, reconstruction, or renovation of any portion of an existing property, site or building for the purpose of its continued use.

**RESTORATION.** The act or process of accurately depicting the form, features, and character of a qualified historical building or property as it appeared at a particular period of time by the means of the removal of features from other periods in its history and reconstruction of missing features from the restoration period. The limited and sensitive upgrading of mechanical, electrical, and plumbing systems and other code-required work to make properties

functional is appropriate within a restoration project.

**STRUCTURE.** That which is built or constructed, an edifice or building of any kind, or any piece of work artificially built up or composed of parts joined together in some definite manner.

**TREATMENT.** An act of work to carry out preservation, restoration, stabilization, rehabilitation, or reconstruction.

### **CHAPTER 8-3 USE AND OCCUPANCY**

#### **SECTION 8-301 PURPOSE AND SCOPE**

**8-301.1 Purpose.** The purpose of the CHBC is to provide alternative regulations for the determination of occupancy classifications and conditions of use for qualified historical buildings or properties.

**8-301.2 Scope.** Every qualified historical building or property for which a building permit or approval has been requested shall be classified prior to permit issuance according to its use or the character of its occupancy in accordance with regular code and applicable provisions of this chapter.

#### **SECTION 8-302 GENERAL**

**8-302.1 Existing Use.** The use or character of occupancy of a qualified historical building or property, or portion thereof, shall be permitted to continue in use regardless of any period of time in which it may have remained unoccupied, or in other uses, provided such building or property otherwise conforms to all applicable requirements of the CHBC.

**8-302.2 Change in Occupancy.** The use or character of the occupancy of a qualified historical building or property may be changed from or returned to its historical use or character provided the qualified historical building or property conforms to the requirements applicable to the new use or character of occupancy as set forth in the CHBC. Such change in occupancy shall not mandate conformance with new construction requirements as set forth in regular code, provided the new use or occupancy does not create a fire hazard or other condition detrimental to the safety of occupants or of firefighting personnel.

TABLE 912.5, "HEIGHTS AND AREA HAZARD CATEGORIES in the 2006 IEBC may be used in lieu of the above.

**8-302.3 Occupancy Separations.** Required occupancy separations of more than one hour may be reduced to one-hour fire-resistive construction with all openings protected by not less than three-fourths-hour fire-resistive assemblies of the self-closing or automatic-closing type when the building is provided with an automatic sprinkler system throughout the entire building in accordance with section 8-410. Doors equipped with automatic-closing devices shall be of a type which will function upon activation of a device which responds to products of combustion other than heat.

Required occupancy separations of one hour may be omitted when the building is provided with an automatic sprinkler system throughout.

**8-302.4 Maximum Floor Area.** Regardless of the use or character of occupancy, the area of a one-story qualified historical building may have, but shall not exceed, a floor area of 15,000 square feet (1393.5 m<sup>2</sup>) unless such an increase is otherwise permitted in regular code. Multistory qualified historical buildings (including basements and cellars) shall be in accordance with regular code requirements

**Exception:** Historical buildings may be unlimited in floor area without fire-resistive area separation walls:

1) when provided with an automatic sprinkler system or,

2) for residential occupancies of 2 stories or less when provided with a complete fire alarm and annunciation system and where the exiting system conforms to regular code.

**8-302.5 Maximum Height.** The maximum height and number of stories of a qualified historical building or property shall not be limited because of construction type, provided such height or number of stories does not exceed that of

its historical design.

**8-302.5.1 High Rise Buildings.** Occupancies B, F-1, F-2 or S in high rise buildings with floors located more than 75 feet above the lowest floor level having building access, may be permitted with only the stories over 75 feet provided with an automatic fire sprinkler system if:

- 1) the building construction type and the exits conform to regular code and,
- 2) a complete building fire alarm and annunciation system is installed and,
- 3) a fire barrier is provided between the sprinklered and non-sprinklered floors.

**8-302.6 Fire-resistive Construction.** (See Chapter 8-4)

**8-302.7 Light and Ventilation.** Existing provisions for light and ventilation which do not, in the opinion of the enforcing agency, constitute a safety hazard may remain. See Section 8-303.6 for residential requirements. See Section 8-503 for Escape or Rescue Windows and Doors.

### **SECTION 8-303 RESIDENTIAL OCCUPANCIES**

**8-303.1 Purpose.** The purpose of this section is to provide alternative regulations for those buildings designated as qualified historical buildings or properties and classified as residential-occupancies. The CHBC requires enforcing agencies to accept any reasonably equivalent alternatives to regular code when dealing with qualified historical buildings and properties.

**8-303.2 Intent.** The intent of the CHBC is to preserve the integrity of qualified historical buildings and properties while maintaining a reasonable degree of protection of life, health and safety for the occupants.

**8-303.3 Application and Scope.** The provisions of this section shall apply to all qualified historical buildings used for human habitation. Those dwelling units intended only for display, or public use with no residential use involved, need not comply with the requirements of this section.

**8-303.4 Fire escapes.** Fire Escapes, see Chapter 8-5.

**8-303.5 Room Dimensions.** Rooms used for sleeping purposes may contain a minimum of 50 square feet (4.6 m<sup>2</sup>) floor area provided there is maintained an average ceiling height of 7 feet (2134 mm). Other habitable rooms need only be of adequate size to be functional for the purpose intended.

**8-303.6 Light and Ventilation.** Windows in habitable rooms shall have an area of 6 percent of the floor area, or 6 square feet (0.56 m<sup>2</sup>), whichever is greater. Windows in sleeping rooms shall be openable (See Section 8-503). Residential occupancies need not be provided with electrical lighting.

**8-303.7 Alteration and Repair.** The alteration and repair of qualified historical buildings or properties may permit the replacement, retention and extension of original materials and the continued use of original methods of construction provided a life-safety hazard is not created or continued. Alterations and repairs shall be consistent with the CHBC.

The amount of alterations and repairs is not limited provided there is no non-historical increase in floor area, volume, or size of the building or property.

**8-303.8 Exiting.** (See Chapter 8-5)

## **CHAPTER 8-4 FIRE PROTECTION**

### **SECTION 8-401 PURPOSE, INTENT AND SCOPE**

**8-401.1 Purpose.** The purpose of this chapter is to provide regulations for fire protection of structures qualified historical buildings or properties. The CHBC requires enforcing agencies to accept any reasonably equivalent alternatives to regular code when dealing with qualified historical buildings or properties.

**8-401.2 Intent.** The intent of the CHBC is to preserve the integrity of qualified historical buildings or properties while maintaining a reasonable degree of fire protection based primarily on the life safety of the occupants and firefighting personnel.

**8-401.3 Scope.** This chapter shall apply when required by the provisions of Section 8-102.

## **SECTION 8-402 FIRE-RESISTIVE CONSTRUCTION**

**8-402.1 Exterior Wall Construction.** The fire resistance requirement for existing exterior walls and existing opening protection may be satisfied when an automatic sprinkler system designed for exposure protection is installed per the CHBC. The automatic sprinklers may be installed on the exterior with at least one sprinkler located over each opening required to be protected. Additional sprinklers shall also be distributed along combustible walls under the roof lines that do not meet the fire-resistive requirement due to their relationship to property lines as required by regular code. Such sprinkler systems may be connected to the domestic water supply on the supply-main side of the building shut-off valve. A shut-off valve may be installed for the sprinkler system provided it is locked in an open position.

**8-402.2 One-hour Construction.** Upgrading an existing qualified historical building or property to one-hour fire-resistive construction and one-hour fire resistive corridors shall not be required regardless of construction or occupancy when one of the following is provided:

1. An automatic sprinkler system throughout. See Section 8-410 for automatic sprinkler systems.
2. An approved life-safety evaluation.
3. Other alternative measures as approved by the enforcing agency.

**8-402.3 Openings in Fire-Rated Systems.** Historical glazing materials and solid wood unrated doors in interior walls required to have one-hour fire rating may be approved when operable windows and doors are provided with appropriate smoke seals and when the area affected is provided with an automatic sprinkler system. See Section 8-410 for automatic sprinkler systems.

## **SECTION 8-403 INTERIOR FINISH MATERIALS**

New non-historical interior wall and ceiling finish shall conform to the provisions of the regular code. Existing non-conforming materials used in interior wall and finishes may be surfaced with an approved fire-retardant to increase the rating of the natural finish to within reasonable proximity of the required rating. For wood, lath, and plaster walls, see Section 8-404.

**Exception:** When an automatic sprinkler system is provided throughout the building, existing finishes shall be approved.

## **SECTION 8-404 WOOD LATH AND PLASTER**

Wood lath and plaster walls may be considered in accordance with codes, standards, and listings published prior to 1943 whereby a wood stud wall assembly with gypsum or lime plaster on hand split or sawn wooden lath obtains a one-half-hour fire-resistive rating. This rating may be increased for interior walls to as much as one hour by filling the wall with mineral fiber or glass fiber.

## **SECTION 8-405 OCCUPANCY SEPARATION**

(See Chapter 8-3)

## **SECTION 8-406 MAXIMUM FLOOR AREA**

(See Chapter 8-3)

## **SECTION 8-407 VERTICAL SHAFTS**

Vertical shafts need not be enclosed when such shafts are blocked at every floor level by the installation of not less than 2 full inches (51 mm) of solid wood or equivalent construction installed as to prevent the initial passage of smoke and flame. Automatic sprinkler systems or other solutions may be considered on a case-by-case basis, in lieu of enclosure of vertical shafts and stairwells.

#### **SECTION 8-408 ROOF COVERING**

Existing or original roofing materials may be repaired or reconstructed subject to the following requirements:

1. The original or historical roofing system shall be detailed or modified as necessary in order to be capable of providing shelter, while preserving the historical materials and appearance of the roof.
2. Wooden roof materials may be utilized where fire resistance is required provided they are treated with fire-retardant treatments to achieve a Class "B" roof covering rating. Wood roofing in state designated Urban Wild land and High Fire Zones shall be permitted when installed in class "A" assemblies.
3. Jurisdictions that prohibit wood roofing materials for application as roof coverings and roof assemblies shall submit documentation for the adoption. Express Terms, statement of reasons and minutes of the action by the adopting authority Health and Safety Code, Section 18959(f).

#### **SECTION 8-409 FIRE ALARM SYSTEMS**

Every qualified historical building or property shall be provided with fire alarm systems as required for the use or occupancy by regular code or other approved alternative.

#### **SECTION 8-410 AUTOMATIC SPRINKLER SYSTEMS**

**8-410.1** Every qualified historical building or property which cannot be made to conform to the construction requirements specified in the regular code for the occupancy or use, and which constitutes a distinct fire hazard, (for definition of "distinct hazard", see Chapter 8-2), shall be deemed to be in compliance if provided with an automatic sprinkler system, or a life-safety system or other technologies as approved by the enforcing agency (automatic is defined in regular code. Sprinkler system is defined in this section).

**8-410.2** When required by the CHBC, an automatic sprinkler system is defined by the following standards (for non-hazardous occupancies).

1. Buildings of four stories or less; NFPA 13R, 2002 edition.
2. for floors above the fourth, NFPA 13, 2002 SFM amended edition.
3. buildings with floors above 75 feet, NFPA 13, 2002 edition.
4. When the building is free standing or with property line separation, 2 floors and 1500 s.f. per floor or less, NFPA 13D, 2002 edition.
5. For exterior wall and opening protection. As required by this section.

**Exception:** When the automatic sprinkler systems are used to reach compliance using this code, in three or more occasions, the system shall be: NFPA standard 13D shall be increased to NFPA 13 R standard, or a NFPA 13R standard shall be increased to a NFPA 13 standard.

**8-410.3** Automatic sprinkler systems shall not be used to substitute for or act as an alternate to the required number of exits from any facility. (See Chapter 8-5 for exiting requirements.)

**8-410.4** An automatic sprinkler system shall be provided in all detention facilities.

#### **SECTION 8-411 OTHER TECHNOLOGIES**

Fire alarm systems, smoke and heat detection systems, occupant notification and annunciation systems, smoke control systems and fire modeling, timed egress analysis and modeling, as well as other engineering methods and technologies may be accepted by the enforcing agency to address areas of non-conformance.

## **SECTION 8-412 HIGH RISE BUILDINGS**

Qualified historical buildings having floors for human occupancy located more than 75 feet above the lowest floor level having building access shall conform to the provisions of the regular code for existing high rise buildings as amended by the CHBC.

## **CHAPTER 8-5 MEANS OF EGRESS**

### **SECTION 8-501 PURPOSE, INTENT AND SCOPE**

**8-501.1 Purpose.** The purpose of this chapter is to establish minimum means of egress regulations for qualified historical buildings or properties. The CHBC requires enforcing agencies to accept reasonably equivalent alternatives to the means of egress requirements in the regular code.

**8-501.2 Intent.** The intent of these regulations to provide an adequate means of egress.

**8-501.3 Scope.** Every qualified historical building or portion thereof shall be provided with exits as required by the CHBC when required by the provisions of Section 8-102.

### **SECTION 8-502 GENERAL**

**8-502.1 General.** The enforcing agency shall grant reasonable exceptions to the specific provisions of applicable egress regulations where such exceptions will not adversely affect life safety.

**8-502.2 Existing door openings and corridor widths of less than dimensions required by regular code shall be permitted where there is sufficient width and height for the occupants to pass through the opening or traverse the exit.**

**8-502.3 Stairs.** Existing stairs having risers and treads, or width at variance with the regular code are allowed if determined by the enforcing agency to not constitute a distinct hazard. Handrails with non-conforming grip size or extensions are allowed if determined by the enforcing agency to not constitute a distinct hazard.

**8-502.4 Main Entry Doors.** The front or main entry doors need not be re-hung to swing in the direction of exit travel provided other means or conditions of exiting, as necessary to serve the total occupant load, are provided.

**8-502.5 Existing Fire Escapes.** Existing previously approved fire escapes and fire escape ladders shall be acceptable as one of the required means of egress provided they extend to the ground and are easily negotiated, adequately signed, and in good working order. Access shall be by an opening having a minimum width of 29 inches (737mm) when open with a sill no more than 30 inches (762mm) above the adjacent floor, landing, or approved step.

**8-502.6 New Fire Escapes and Fire Escape Ladders.** New fire escapes and fire escape ladders which comply with this section shall be acceptable as one of the required means of egress. New fire escapes and new fire escape ladders shall comply with the following:

1. Access from a corridor shall not be through an intervening room.
2. All openings within 10 feet (3048 mm) shall be protected by three-fourths-hour fire assemblies. When located within a recess or vestibule, adjacent enclosure walls shall be of not less than one-hour fire-resistive construction.
3. Egress from the building shall be by a clear opening having a minimum dimension of not less than 29 inches (737 mm). Such openings shall be openable from the inside without the use of a key or special knowledge or effort. The sill of an opening giving access shall not be more than 30 inches (737mm) above the floor, step or

landing of the building or balcony.

4. Fire escape stairways and balconies shall support the dead load plus a live load of not less than 100 pounds per square foot ( $4.79\text{kN}/\text{m}^2$ ) and shall be provided with a top and intermediate handrail on each side. The pitch of the stairway shall not exceed 72 degrees with a minimum width of 18 inches (457 mm). Treads shall not be less than 4 inches (102 mm) in width and the rise between treads shall not exceed 10 inches (254 mm). All stair and balcony railings shall support a horizontal force of not less than 50 pounds per lineal foot ( $729.5\text{ N}/\text{m}^2$ ) of railing.

5. Balconies shall not be less than 44 inches (1118 mm) in width with no floor opening other than the stairway opening greater than 5/8 inch in width. Stairway openings in such balconies shall not be less than 22 inches by 44 inches (559 by 1118 mm). The balustrade of each balcony shall not be less than 36 inches (914mm) high with not more than 9 inches (287 mm) between balusters.

6. Fire escapes shall extend to the roof or provide an approved gooseneck ladder between the top floor landing and the roof when serving buildings four or more stories in height having roofs with less than 4 units' vertical in 12 units' horizontal (33.3%) slope. Fire escape ladders shall be designed and connected to the building to withstand a horizontal force of 100 pounds (445 N) placed anywhere on the rung. All ladders shall be at least 15 inches (381 mm) wide, located within 12 inches (305mm) of the building. Ladder rungs shall be  $\frac{3}{4}$  inch (19.1 mm) in diameter and shall be located 12 inches (305 mm) on center. Openings for roof access ladders through cornices and similar projections shall have minimum dimensions of 30 inches by 33 inches (762 by 838 mm).

The length of fire escapes and exit ladder devices shall be limited to that approved by the building official based on products listed by a recognized testing laboratory.

7. The lowest balcony shall not be more than 18 feet (5486mm) from the ground. Fire escapes shall extend to the ground or be provided with counterbalanced stairs reaching to the ground.

8. Fire escapes shall not take the place of stairways required by the codes under which the building was constructed.

9. Fire escapes shall be kept clear and unobstructed at all times and maintained in good working order.

### **SECTION 8-503 ESCAPE OR RESCUE WINDOWS AND DOORS**

Basements in dwelling units and every sleeping room below the fourth floor shall have at least one openable window or door approved for emergency escape which shall open directly into a public street, public way, yard or exit court. Escape or rescue windows or doors shall have a minimum clear area of 3.3 square feet ( $0.31\text{ m}^2$ ) and a minimum width or height dimension of 18 inches (457 mm) and be operable from the inside to provide a full, clear opening without the use of special tools.

### **SECTION 8-504 RAILINGS AND GUARDRAILS**

The height of railings and guard railings and the spacing of balusters may continue in their historical height and spacing unless a distinct hazard has been identified or created by a change in use or occupancy.

## **CHAPTER 8-6 ACCESSIBILITY**

### **SECTION 8-601 PURPOSE, INTENT, SCOPE**

**8-601 Purpose.** The purpose of the CHBC is to provide alternative regulations to facilitate access and use by people with disabilities to and throughout facilities designated as qualified historical buildings or properties. These regulations require enforcing agencies to accept alternatives to regular code when dealing with qualified historical buildings or properties.

**8-602 Intent.** The intent of this chapter to preserve the integrity of qualified historical buildings and properties while providing access to and use by people with disabilities

**8-601.3 Scope.** The CHBC shall apply to every qualified historical building or property that is required to provide access to people with disabilities.

1. Provisions of this chapter do not apply to new construction or reconstruction/replicas of historical buildings.
2. Where provisions of this chapter apply to alteration of qualified historical buildings or properties, alteration is defined in California Building Code (CBC), Chapter 2, Definitions and Abbreviations. 202 – A. Alter or Alteration

**8-601.4 General Application.** The provisions in the CHBC apply to local, state and federal governments (Title II entities); alteration of commercial facilities and places of public accommodation (Title III entities); and barrier removal in commercial facilities and places of public accommodation (Title III entities). Except as noted in this chapter.

### **SECTION 8-602 BASIC PROVISIONS**

**8-602.1 Regular Code.** The regular code for access for people with disabilities (Title 24, Part 2, Vol.1, Chapter 11B) shall be applied to qualified historical buildings or properties unless strict compliance with the regular code will threaten or destroy the historical significance or character-defining features of the building or property.

**8-602.2 Alternative Provisions.** If the historical significance or character-defining features are threatened, alternative provisions for access may be applied pursuant to this chapter provided the following conditions are met:

1. These provisions shall be applied only on an item-by-item or case-by-case basis.
2. Documentation is provided, including meeting minutes or letters, stating the reasons for the application of the alternative provisions. Such documentation shall be retained in the permanent file of the enforcing agency.

### **SECTION 8-603 ALTERNATIVES**

**8-603.1 Alternative Minimum Standards.** The alternative minimum standards for alterations of qualified historical buildings or facilities are contained in Section 4.1.7(3) of ADA Standards for Accessible Design, as incorporated and set forth in federal regulation 28 C.F.R pt. 36.

**8-603.2 Entry.** These alternatives do not allow exceptions for the requirement of level landings in front of doors, except as provided in Section 8-603.4.

1. Access to any entrance used by the general public and no further than 200 feet (60960mm) from the primary entrance.
2. Access at any entrance not used by general public but open and unlocked with directional signs at the primary entrance and as close as possible to, but no further than 200 feet (60960 mm) from, the primary entrance.
3. The accessible entrance shall have a notification system. Where security is a problem, remote monitoring may be used.

**8-603.3 Doors.** Alternatives listed in order of priority are:

1. Single-leaf door which provides a minimum 30 inches (762 mm) of clear opening.
2. Single-leaf door which provides a minimum 29½ inches (749mm) clear opening
3. Double door, one leaf of which provides a minimum 29½ inches (749mm) clear opening.
4. Double doors operable with a power-assist device to provide a minimum 29 ½ inches (749mm) clear opening when both doors are in the open position.

**Exception:** Alternatives in this section do not apply to alteration of commercial facilities and places of public accommodation (Title III entities).

**8-603.4 Power-assisted Doors.** Power-assisted door or doors may be considered an equivalent alternative to level

landings, strikeside clearance and door-opening forces required by regular code.

**8-603.5 Toilet Rooms.** *In lieu of separate-gender toilet facilities as required in the regular code, an accessible unisex toilet may be designated.*

**8-603.6 Exterior and Interior Ramps and Lifts.** *Alternatives listed in order of priority are:*

- 1. A lift or a ramp of greater than standard slope but no greater than 1:10, for horizontal distances not to exceed 5 feet (1525 mm). Signs shall be posted at upper and lower levels to indicate steepness of the slope.*
- 2. Access by ramps of 1:6 slope for horizontal distance not to exceed 13 inches (330 mm). Signs shall be posted at upper and lower levels to indicate steepness of the slope.*

#### **SECTION 8-604 EQUIVALENT FACILITATION**

*Use of other designs and technologies, or deviation from particular technical and scoping requirements, are permitted if the application of the alternative provisions contained in Section 8-603 would threaten or destroy the historical significance or character-defining features of the qualified historical building or property.*

- 1. Such alternatives shall be applied only on an item-by-item or case-by-case basis.*
- 2. Access provided by experiences, services, functions, materials and resources through methods including, but not limited to, maps, plans, videos, virtual reality, and related equipment, at accessible levels. The alternative design and/or technologies used will provide substantially equivalent or greater accessibility to, and usability of, the facility.*
- 3. The official charged with the enforcement of the standards shall document the reasons for the application of the design and/or technologies and their effect on the historical significance or character-defining features. Such documentation shall be in accordance with Section 8-602.2, Item 2, and shall include the opinion and comments of state or local accessibility officials, and the opinion and comments of representative local groups of people with disabilities. Such documentation shall be retained in the permanent file of the enforcing agency. Copies of the required documentation should be available at the facility upon request.*

**Note:** *For commercial facilities and places of public accommodation (Title III entities).*

*Equivalent facilitation for an element of a building or property when applied as a waiver of an ADA accessibility requirement will not be entitled to the Federal Department of Justice certification of this code as rebuttable evidence of compliance for that element.*

#### **CHAPTER 8-7 STRUCTURAL REGULATIONS**

##### **SECTION 8-701 PURPOSE, INTENT AND SCOPE**

**8-701.1 Purpose.** *The purpose of the CHBC is to provide alternative regulations for the structural safety of buildings or structures designated as qualified historical buildings or properties. The CHBC requires enforcing agencies to accept any reasonably equivalent alternatives to regular code when dealing with qualified historical buildings or properties.*

**8-701.2 Intent.** *The intent of the CHBC is to encourage the preservation of qualified historical buildings or properties while providing a reasonable level of structural safety for occupants and the public at large through the application of the CHBC.*

**8-701.3 Application.** *The alternative structural regulations provided by Section 8-705 are to be applied in conjunction with regular code whenever a structural upgrade or reconstruction is undertaken for qualified historical buildings or properties.*

##### **SECTION 8-702 GENERAL**

**8-702.1** *The CHBC shall not be construed to allow the enforcing agency to approve or permit a lower level of safety of structural design and construction than that which is reasonably equivalent to the regular code provisions in occupancies which are critical to the safety and welfare of the public at large, including, but not limited to, public and private schools, hospitals, municipal police and fire stations and essential services facilities.*

**8-702.2** *Nothing in these regulations shall prevent voluntary and partial seismic upgrades when it is demonstrated that such upgrades will improve life safety and when a full upgrade would not otherwise be required.*

### **SECTION 8-703 STRUCTURAL SURVEY**

**8-703.1 Scope.** *When a structure, or portion of a structure is to be evaluated for structural capacity under the CHBC, it shall be surveyed for structural conditions by an architect or engineer knowledgeable in historical structures. The survey shall evaluate deterioration or signs of distress. The survey shall determine the details of the structural framing and the system for resistance of gravity and lateral loads. Details, reinforcement and anchorage of structural systems and veneers shall be determined and documented where these members are relied on for seismic resistance.*

**8-703.2** *The results of the survey shall be utilized for evaluating the structural capacity and for designing modifications to the structural system to reach compliance with this code.*

**8-703.3 Historical Records.** *Past historical records of the structure or similar structures may be used in the evaluation, including the effects of subsequent alterations.*

### **SECTION 8-704 NON-HISTORICAL ADDITIONS AND NON-HISTORICAL ALTERATIONS**

**8-704.1** *New non-historical additions and non-historical alterations which are structurally separated from an existing historical structure shall comply with regular code requirements.*

**8-704.2** *New non-historical additions which impose vertical or lateral loads on an existing structure shall not be permitted unless the affected part of the supporting structure is evaluated and strengthened, if necessary, to meet regular code requirements.*

**Note:** *For use of archaic materials, see Chapter 8-8.*

### **SECTION 8-705 STRUCTURAL REGULATIONS**

**8-705.1 Gravity Loads.** *The capacity of the structure to resist gravity loads shall be evaluated and the structure strengthened as necessary. The evaluation shall include all parts of the load path. Where no distress is evident, and a complete load path is present, the structure may be assumed adequate by having withstood the test of time if anticipated dead and live loads will not exceed those historically present.*

**8-705.2 Wind and Seismic Loads.** *The ability of the structure to resist wind and seismic loads shall be evaluated. The evaluation shall be based on the requirements of Section 8-706.*

**8-705.2.1** *Any un-safe conditions in the lateral-load-resisting system shall be corrected, or alternative resistance shall be provided. Additional resistance shall be provided to meet the minimum requirements of this code.*

**8-705.2.2** *The architect or engineer shall consider additional measures with minimal loss of, and impact to historical materials which will reduce damage and needed repairs in future earthquakes to better preserve the historical structure in perpetuity. These additional measures shall be presented to the owner for consideration as part of the rehabilitation or restoration.*

### **SECTION 8-706 LATERAL LOAD REGULATIONS**

**8-706.1 Lateral Loads.** *The forces used to evaluate the structure for resistance to wind and seismic loads need not exceed 0.75 times the seismic forces prescribed by the 1995 Edition of the California Building Code (CBC). The seismic forces may be computed based on the  $R_w$  values tabulated in the regular code for similar lateral-force-*

resisting-systems. All deviations of the detailing provisions of the lateral-force-resisting systems shall be evaluated for stability and the ability to maintain load-carrying capacity at increased lateral loads. Un-reinforced masonry bearing wall buildings shall comply with Appendix Chapter 1 of the Uniform Code for Building Conservation (UCBC), 1994 edition, and as modified by this code. Reasonably equivalent standards may be used on a case-by-case basis when approved by the authority having jurisdiction.

**8-706.2 Existing Building Performance.** The seismic resistance may be based upon the ultimate capacity of the structure to perform giving due consideration to ductility and reserve strength of the lateral-force resisting-system and materials while maintaining a reasonable factor of safety. Broad judgment may be exercised regarding the strength and performance of materials not recognized by regular code requirements. (See Chapter 8-8, Archaic Materials and Methods of Construction.)

**8-706.2.1** All structural materials or members that do not comply with detailing and proportioning requirements of the regular code shall be evaluated for potential seismic performance and the consequence of non-compliance. All members which might fail and lead to possible collapse, or threaten life-safety, when subjected to seismic demands in excess of those prescribed in Section 8-706.1, shall be judged unacceptable and appropriate structural strengthening shall be developed. Anchorages for veneers and decorative ornamentation shall be included in this evaluation.

**8-706.3 Load Path.** A complete and continuous load path, including connections, from every part or portion of the structure to the ground shall be provided for the required forces. It shall be verified that the structure is adequately tied together to perform as a unit when subjected to earthquake forces.

**8-706.4 Parapets.** Parapets and exterior decoration shall be investigated for conformance with regular code requirements for anchorage and ability to resist prescribed seismic forces.

An exception to regular code requirements shall be permitted for those parapets and decorations which are judged not to be a hazard to life safety.

**8-706.5 Non-structural Features.** Non-structural features of a historical structure, such as exterior veneer, cornices and decorations, which might fall and create a life-safety hazard in an earthquake, shall be investigated. Their ability to resist seismic forces shall be verified, or the feature shall be strengthened.

**8-706.5.1** Partitions and ceilings of corridors and stairways serving an occupant load of 30 or more shall be investigated to determine their ability to remain in place when the building is subjected to earthquake forces.

## **CHAPTER 8-8 ARCHAIC MATERIALS AND METHODS OF CONSTRUCTION**

### **SECTION 8-801 PURPOSE, INTENT AND SCOPE**

**8-801.1 Purpose.** The purpose of the CHBC is to provide regulations for the use of historical methods and materials of construction that are at variance with regular code requirements or are not otherwise codified, in buildings or structures designated as qualified historical buildings or properties. The CHBC requires enforcing agencies to accept any reasonably equivalent alternatives to regular code when dealing with qualified historical buildings or properties.

**8-801.2 Intent.** It is the intent of the CHBC to provide for the use of historical methods and materials of construction that are at variance with specific code requirements or are not otherwise codified.

**8-801.3 Scope.** Any construction type or material that is, or was, part of the historical fabric of a structure, is covered by this chapter. Archaic materials and methods of construction present in a historical structure may remain or be reinstalled or be installed with new materials of the same class to match existing conditions.

### **SECTION 8-802 GENERAL ENGINEERING APPROACHES**

Allowable stresses or ultimate strengths for archaic materials shall be assigned based upon similar conventional codified materials, or on tests as hereinafter indicated. The archaic materials and methods of construction shall be thoroughly investigated for their details of construction in accordance with Section 8-703. Testing shall be performed when applicable to evaluate existing conditions. The architect or structural engineer in responsible charge of the project shall assign allowable stresses or ultimate strength values to archaic materials. Such assigned allowable

stresses, or ultimate strength values, shall not be greater than those provided for in the following sections without adequate testing, and shall be subject to the concurrence of the enforcing agency.

### **SECTION 8-803 NONSTRUCTURAL ARCHAIC MATERIALS**

Where nonstructural historical materials exist in uses which do not meet the requirements of the regular code, their continued use is allowed by this code, provided that any public health and life-safety hazards are mitigated subject to the concurrence of the enforcing agency.

### **SECTION 8-804 ALLOWABLE CONDITIONS FOR SPECIFIC MATERIALS**

Archaic materials which exist and are to remain in historical structures shall be evaluated for their condition and for loads required by this code. The structural survey required in Section 8-703 of this code shall document existing conditions, reinforcement, anchorage, deterioration and other factors pertinent to establishing allowable stresses and adequacy of the archaic materials. The remaining portion of this chapter provides additional specific requirements for commonly encountered archaic materials.

### **SECTION 8-805 MASONRY**

For adobe, see Section 8-806.

**8-805.1 Existing Solid Masonry.** Existing solid masonry walls of any type, except adobe, may be allowed, without testing, a maximum value of three pounds per square inch (20.7 kPa) in shear where there is a qualifying statement by the architect or engineer that an inspection has been made, that mortar joints are filled and that both brick and mortar are reasonably good. The allowable shear stress above applies to un-reinforced masonry, except adobe, where the maximum ratio of un-supported height or length to thickness does not exceed 12, and where minimum quality mortar is used or exists. Wall height or length is measured to supporting or resisting elements that are at least twice as stiff as the tributary wall. Stiffness is based on the gross section. Allowable shear stress may be increased by the addition of 10% of the axial direct stress due to the weight of the wall directly above. Higher quality mortar may provide a greater shear value and shall be tested in accordance with UBC Standard 21-6 as referenced in the 1997 UBC.

#### **8-805.2 Stone Masonry.**

**8-805.2.1 Solid-backed Stone Masonry.** Stone masonry solidly backed with brick masonry shall be treated as solid brick masonry as described in Section 8-805.1 and in the UCBC provided representative testing and inspection verifies solid collar joints between stone and brick and that a reasonable number of stones lap with the brick wythes as headers or that steel anchors are present. Solid stone masonry where the Wythes of stone effectively overlap to provide the equivalent header courses may also be treated as solid brick masonry.

**8-805.2.2 Independent Wythe Stone Masonry.** Stone masonry with independent face Wythes may be treated as solid brick masonry as described in Section 805.1 and the UCBC, provided representative testing and inspection verify that the core is essentially solid in the masonry wall and that steel ties are epoxied in drilled holes between outer stone Wythes at floors, roof and at not-to-exceed 4 feet (1219 mm) on center in each direction, between floors and roof.

**8-805.2.3 Testing of Stone Masonry.** Testing of stone masonry shall be similar to UBC Standard 21-6, as referenced in the 1997 UBC, except that representative stones which are not interlocked shall be pulled outward from the wall and shear area appropriately calculated after the test.

**8-805.3 Reconstructed Walls.** *Totally reconstructed walls utilizing original brick or masonry, constructed similar to original, shall be constructed in accordance with regular code. Repairs or infills may be constructed in a similar manner to the original walls without conforming to regular code.*

## **SECTION 8-806 ADOBE**

**8-806.1 General.** *Unburned clay masonry may be constructed, reconstructed, stabilized, or rehabilitated subject to this chapter. Alternate approaches which provide an equivalent or greater level of safety may be used, subject to the concurrence of the enforcing agency.*

**8-806.2 Protection.** *Provisions shall be made to protect adobe structures from moisture and deterioration. The unreinforced adobe shall be maintained in reasonably good condition. Particular attention shall be given to moisture content of adobe walls. Un-maintained or un-stabilized walls or ruins shall be evaluated for safety based on their condition and stability. Additional safety measures may be required subject to the concurrence of the enforcing agency.*

**8-806.3 Requirements.** *Unreinforced new or existing adobe walls shall meet the requirements. Existing sod or rammed earth walls shall be considered similar to the extent these provisions apply. Where existing dimensions do not meet these conditions, additional strengthening measures may be required.*

1. *One-story adobe load-bearing walls shall not exceed a height-to-thickness ratio of 6.*
2. *Two-story adobe buildings or structures' height-to-thickness wall ratio shall not exceed 5 at the ground floor and 6 at the second floor, and shall be measured at floor-to-floor height when the second floor and attic ceiling/roof are connected to the wall as described below.*
3. *Non-load-bearing adobe partitions and gable end walls shall be evaluated for stability and anchored against out-of-plane failure.*
4. *A bond beam or equivalent structural element shall be provided at the top of all adobe walls, and for two-story buildings at the second floor. The size and configuration of the bond beam shall be designed in each case to meet the requirements of the existing conditions and provide an effective brace for the wall, to tie the building together and connect the wall to the floor or roof.*

**8-806.4 Repair or Reconstruction.** *Repair or reconstruction of wall area may utilize unstabilized brick or adobe masonry designed to be compatible with the constituents of the existing adobe materials.*

**8-806.5 Shear Values.** *Existing adobe may be allowed a maximum value of four pounds per square inch (27.6 kPa) for shear, with no increase for lateral forces.*

**8-806.6 Mortar.** *Mortar may be of the same soil composition as that used in the existing wall, or in new walls as necessary to be compatible with the adobe brick.*

## **SECTION 8-807 WOOD**

**8-807.1 Existing Wood Diaphragms or Walls.** *Existing wood diaphragms or walls of straight or diagonal sheathing shall be assigned shear resistance values appropriate with the fasteners and materials functioning in conjunction with the sheathing. The structural survey shall determine fastener details and spacings and verify a load path through floor construction. Shear values of Tables 8-8-A and 8-8-B may be used.*

**8-807.2 Wood Lath and Plaster.** *Wood lath and plaster walls and ceilings may be utilized using the shear values referenced in Section 8-807.1.*

**8-807.3 Existing Wood Framing.** *Existing wood framing members may be assigned allowable stresses consistent with codes in effect at the time of construction. Existing or new replacement wood framing may be of archaic types originally used if properly researched, such as balloon and single wall. Wood joints such as dovetail and mortise and tenon types may be used structurally, provided they are well made. Lumber selected for use and type need not bear grade marks, and greater or lesser species such as low-level pine and fir, boxwood and indigenous hardwoods and*

other variations may be used for specific conditions where they were or would have been used.

Wood fasteners such as square or cut nails may be used with a maximum increase of 50% over wire nails for shear.

**SECTION 8-808  
CONCRETE**

**8-808.1 Materials.** Natural cement concrete, unreinforced rubble concrete, and similar materials may be utilized wherever that material is used historically. Concrete of low strength and with less reinforcement than required by the regular code may remain in place. The architect or engineer shall assign appropriate values of strength based on testing of samples of the materials. Bond and development lengths shall be determined based on historical information or tests.

**8-808.2 Detailing.** The architect or engineer shall carefully evaluate all detailing provisions of the regular code which are not met and shall consider the implications of these variations on the ultimate performance of the structure, giving due consideration to ductility and reserve strength.

**SECTION 8-809  
STEEL AND IRON**

The hand-built, untested use of wrought or black iron, the use of cast iron or grey iron, and the myriad of joining methods that are not specifically allowed by code may be used wherever applicable and wherever they have proven their worth under the considerable span of years involved with most historical structures. Uplift capacity should be evaluated and strengthened where necessary. Fixed conditions or mid-height lateral loads on cast iron columns that could cause failure should be taken into account. Existing structural wrought, forged steel or grey iron may be assigned the maximum working stress prevalent at the time of original construction.

**SECTION 8-810  
HOLLOW CLAY TILE**

The historical performance of hollow clay tile in past earthquakes shall be carefully considered in evaluating walls of hollow clay tile construction. Hollow clay tile bearing walls shall be evaluated and strengthened as appropriate for lateral loads and their ability to maintain support of gravity loads. Suitable protective measures shall be provided to prevent blockage of exit stairways, stairway enclosures, exit ways and public ways as a result of an earthquake.

**SECTION 8-811  
VENEERS**

**8-811.1 Terra Cotta and Stone.** Terra Cotta, cast stone and natural stone veneers shall be investigated for the presence of suitable anchorage. Steel anchors shall be investigated for deterioration or corrosion. New or supplemental anchorage shall be provided as appropriate.

**8-811.2 Anchorage.** Brick veneer with mechanical anchorage at spacing greater than required by regular code may remain provided the anchorages have not corroded. Nail strength in withdrawal in wood sheathing may be utilized to its capacity in accordance with code values.

**SECTION 8-812  
GLASS AND GLAZING**

**8-812.1 Glazing Subject to Human Impact.** Historical glazing material located in areas subject to human impact may be approved subject to the concurrence of the enforcing agency when alternative protective measures are provided. These measures may include, but not be limited to, additional glazing panels, protective film, protective guards or systems, and devices or signs which would provide adequate public safety.

**8-812.2 Glazing in Fire-rated Systems.** See Section 8-402.3.

TABLE 8-8-A—ALLOWABLE VALUES FOR EXISTING MATERIALS

EXISTING MATERIALS OR CONFIGURATIONS OF MATERIALS <sup>1</sup>	ALLOWABLE VALUES
1. Horizontal diaphragms <sup>2</sup>	x14.594 for N/m

1.1 Roofs with straight sheathing and roofing applied directly to the sheathing	100 lbs. Per foot for seismic shear
1.2 Roofs with diagonal sheathing and roofing applied directly to the sheathing	250 lbs. Per foot for seismic shear
1.3 Floors with straight tongue-and-groove sheathing	100 lbs. Per foot for seismic shear
1.4 Floors with straight sheathing and finished wood flooring with board edges offset or perpendicular	500 lbs. Per foot for seismic shear
1.5 Floors with diagonal sheathing and finished	600 lbs. Per foot for seismic shear
2. Crosswalls <sup>2,3</sup>	
2.1 Plaster on wood or metal lath	Per side: 200 lbs. Per foot for seismic shear
2.2 Plaster on gypsum lath	175 lbs. Per foot for seismic shear
2.3 Gypsum wallboard, unblocked edges	75 lbs. Per foot for seismic shear
2.4 Gypsum wallboard, blocked edges	125 lbs. Per foot for seismic shear
Existing footings, wood framing, structural steel and reinforced steel	$f'_c=1,500$ psi (10.34 MPa) unless otherwise shown by tests <sup>4</sup> Allowable stress same as D.F. No. 1 <sup>4</sup>
3.1 Plain concrete footings	$f_t=18,000$ lbs. Per square inch (124.1 M/mm <sup>2</sup> ) maximum
3.2 Douglas fir wood	
3.2 Reinforcing steel	$f_t=20,000$ lbs. Per square inch (137.9 N/mm <sup>2</sup> ) maximum <sup>4</sup>
3.4 Structural steel	

<sup>1</sup>Material must be sound and in good condition.

<sup>2</sup>A one-third increase in allowable stress is not allowed.

<sup>3</sup>Shear values of these materials may be combined, except the total combined value shall not exceed 300 pounds per foot (4380 N/m).

<sup>4</sup>Stresses given may be increased for combinations of loads as specified in the regular code.

TABLE 8-8-B—ALLOWABLE VALUES OF NEW MATERIALS USED IN CONJUNCTION WITH EXISTING CONSTRUCTION

NEW MATERIALS OR CONFIGURATIONS OF MATERIALS	ALLOWABLE VALUES <sup>1</sup>
1. Horizontal diaphragms <sup>2</sup> Plywood sheathing nailed directly over existing straight sheathing with ends of plywood sheets bearing on joists or rafters and edges of ply- wood located on center of individual sheathing boards Plywood sheathing nailed directly over existing diagonal sheathing with ends of plywood sheets bearing on joists or rafters 1.3 Plywood sheathing nailed directly over existing straight or diagonal sheathing with ends of ply- wood sheets bearing on joists or rafters with edges of plywood located over new blocking and nailed to provide a minimum nail penetration into framing and blocking of 1_ inches (41 mm)	225 lbs. Per foot (3283 N/m)  375 lbs. Per foot (5473 N/m)  75 percent of the values specified in the regular code
Shear walls: (general procedure) Plywood sheathing applied directly over wood studs. No value shall be given to plywood applied over existing plaster or wood sheathing	100 percent of the value specified in the regular code for shear walls
3. Crosswalls: (special procedure only) Plywood sheathing applied directly over wood studs. No value shall be given to plywood applied over existing plaster or wood sheathing Drywall or plaster applied directly over wood studs Drywall or plaster applied to sheathing over existing wood studs	133 percent of the value specified in the regular code for shear walls 100 percent of the values in the regular code The values specified in the regular code reduced as noted. <sup>3</sup> (UBC Table 25-I, Footnote 1)
4. Tension bolts Bolts extending entirely through unreinforced masonry walls secured with bearing plates on far side of a three-wythe-minimum wall with at least 30 square inches (19 350 mm <sup>2</sup> ) of area <sup>4,5</sup> Bolts extending to the exterior face of the wall with a 2½-inch (63.5 mm) round plate under the head and drilled at an angle of 22½ degrees to the horizontal, installed as specified for shear bolts <sup>4,5,7</sup>	1,800 lbs. (8006 N) per bolt <sup>6</sup> 900 lbs. (4003 N) per bolt for two-wythe walls <sup>6</sup>  1,200 lbs. (5338 N) per bolt
5. Shear bolts Bolts embedded a minimum of 8 inches (203 mm) into unreinforced masonry walls and centered in a 2½-inch-diameter (63.5 mm) hole filled with dry-pack or nonshrink grout. Through bolts with first 8 inches (203 mm) as noted above and embedded bolts as noted in Item 4.2 <sup>5,7</sup>	½ inch (12.7 mm) diameter = 350 lbs. (1557 N) <sup>6</sup> ⅝ inch (15.9 mm) diameter = 500 lbs. (2224 N) <sup>6</sup> ¾ inch (19 mm) diameter = 750 lbs. (3336 N) <sup>6</sup>
6. Infilled walls Reinforced masonry infilled openings in existing unreinforced masonry walls. Provide keys or dowels to match reinforcing	Same as values specified for unreinforced masonry walls
7. Reinforced masonry	

Masonry piers and walls reinforced per the regular code	Same as values specified in the regular code
8. Reinforced concrete Concrete footings, walls and piers reinforced as specified in the regular code and designed for tributary loads	Same values as specified in the regular code <sup>8</sup>

<sup>1</sup>A one-third increase in allowable stress is not allowed, except as noted.

<sup>2</sup>Values and limitations are for nailed plywood. Higher values may be used for other fastening systems such as wood screws or staples when approved by the enforcing authority.

<sup>3</sup>In addition to existing sheathing value.

<sup>4</sup>Bolts to be ½-inch (12.7 mm) minimum diameter.

<sup>5</sup>Drilling for bolts and dowels shall be done with an electric rotary drill. Impact tools shall not be used for drilling holes or tightening anchors and shear bolt nuts.

<sup>6</sup>Other bolt sizes, values and installation methods may be used provided a testing program is conducted in accordance with regular code standards. Bolt spacing shall not exceed 6 feet. (1830 mm) on center and shall not be less than 12 inches (305 mm) on center.

<sup>7</sup>Embedded bolts to be tested as specified in regular code standards.

<sup>8</sup>Stresses given may be increased for combinations of loads as specified in the regular code

## CHAPTER 8-9 MECHANICAL, PLUMBING AND ELECTRICAL REQUIREMENTS

### SECTION 8-901 PURPOSE, INTENT AND SCOPE

**8-901.1 Purpose.** The purpose of the CHBC is to provide regulations for the mechanical, plumbing and electrical systems of buildings or structures designated as qualified historical buildings or properties. The CHBC requires enforcing agencies to accept any reasonable equivalent alternatives to regular code when dealing with qualified historical buildings or properties.

**8-901.2 Intent.** The intent of the CHBC is to preserve the integrity of qualified historical buildings or properties while providing a reasonable level of protection from fire, health, and life-safety hazards (hereinafter referred to as safety hazards) for the building occupants.

**8-901.3 Scope.** The CHBC shall be applied in conjunction with the regular code whenever compliance with the regular code is required for qualified historical buildings or properties.

**8-901.4 Safety Hazard.** No person shall permit any safety hazard to exist on premises under their control, or fail to take immediate action to abate such hazard. Existing systems which constitute a safety hazard when operational may remain in place provided they are completely and permanently rendered inoperative. Safety hazards created by inoperative systems shall not be permitted to exist. Requirements of the regular code concerning general regulations shall be complied with, except that the enforcing agency shall accept solutions which do not cause a safety hazard.

**8-901.5 Energy Conservation.** Qualified historical buildings and properties covered by this part are exempted from compliance with energy conservation standards. When new non-historic lighting and space conditioning system components, devices, appliances and equipment are installed, they shall comply with the requirements of Title 24 Part 6, The California Energy Code, except where the historical significance or character-defining features are threatened.

### SECTION 902 MECHANICAL

**8-902.1 General.** Mechanical systems shall comply with the regular code unless otherwise modified by this chapter.

**8-902.1.1** The provisions of the CHBC shall apply to the acceptance, location, installation, alteration, repair, relocation, replacement or addition of any heating, ventilating, air conditioning, domestic incinerators, kilns or miscellaneous heat-producing appliances or equipment within or attached to a historical building.

**8-902.1.2** Existing systems which do not, in the opinion of the enforcing agency, constitute a safety hazard may remain in use.

**8-902.1.3** The enforcing agency may approve any alternative to the CHBC which would achieve equivalent life safety.

**8-902.2 Heating Facilities.** All dwelling-type occupancies covered under this chapter shall be provided with heating facilities. Wood-burning or pellet stoves or fireplaces may be acceptable as heating facilities.

**8-902.3 Fuel Oil Piping and Tanks.** Fuel oil piping and tanks shall comply with regular code requirements except that the enforcing agency may waive such requirements where the lack of compliance does not create a safety or environmental hazard.

**8-902.4 Heat-Producing and Cooling Equipment.** Heat-producing and cooling equipment shall comply with regular code requirements, governing equipment safety, except that the enforcing agency may accept solutions which do not create a safety hazard.

**8-902.5 Combustion Air. 8-902.5.1** All fuel-burning appliances and equipment shall be provided a sufficient supply of air for proper fuel combustion, ventilation, and draft hood dilution.

**8-902.5.2** The enforcing agency may require operational tests for combustion air systems which do not comply with applicable requirements of the regular code.

**8-902.6 Venting of Appliances.**

**8-902.6.1** Every appliance required to be vented shall be connected to an approved venting system. Venting systems shall develop a positive flow adequate to convey all combustion products to the outside atmosphere.

**8-902.6.2** Masonry chimneys in structurally sound condition may remain in use for all fuel-burning appliances provided the flue is evaluated and documentation provided that the masonry and grout are in good condition. Terra cotta chimneys and Type C metallic vents installed in concealed spaces shall not remain in use unless otherwise mitigated and approved on a case-by-case basis.

**8-902.6.3** The enforcing agency may require operational tests for venting systems which do not comply with applicable requirements of the regular code.

**8-902.7 Ducts.**

**8-902.7.1** New ducts shall be constructed and installed in accordance with applicable requirements of the regular code.

**8-902.7.2** Existing duct systems which do not comply with applicable requirements of the regular code and do not, in the opinion of the enforcing agency, constitute a safety or health hazard may remain in use.

**8-902.8 Ventilating Systems.**

**8-902.8.1** Ventilating systems shall be installed so that no safety hazard is created.

**8-902.8.2** Grease hoods and grease hood exhaust systems shall be furnished and installed in accordance with applicable requirements of the regular code. Existing systems which are altered shall comply with the regular code.

**8-902.9 Miscellaneous Equipment Requirements.**

**8-902.9.1** The following appliances and equipment shall be installed so that no safety hazard is created: warm air furnaces, space heating equipment, vented decorative appliances, floor furnaces, vented wall furnaces, unit heaters, room heaters, absorption units, refrigeration equipment, duct furnaces, infrared radiant heaters, domestic incinerators, miscellaneous heat-producing appliances and water heaters.

**8-902.9.2** Storage-type water heaters shall be equipped with a temperature-and pressure-relief valve in accordance with applicable requirements of the regular code.

**SECTION 8-903  
PLUMBING**

**8-903.1 General.** Plumbing systems shall comply with the regular code unless otherwise noted.

**8-903.1.1** The provisions of the CHBC shall apply to the acceptance, location, installation, alteration, repair,

relocation, replacement or addition of any plumbing system or equipment within or attached to a historical building.

**8-903.1.2** Existing systems which do not, in the opinion of the enforcing agency, constitute a safety hazard may remain in use.

**8-903.1.3** The enforcing agency may approve any alternative to these regulations which achieves equivalent life safety.

### **8-903.2 Residential Occupancies.**

**8-903.2.1** Where toilet facilities are provided, alternative sewage disposal methods may be acceptable if approved by the local health department. In hotels, where private facilities are not provided, water closets at the ratio of one for each 15 rooms may be acceptable.

**8-903.2.2** Toilet facilities are not required to be on the same floor or in the same building as sleeping rooms. Water-flush toilets may be located in a building immediately adjacent to the sleeping rooms. When alternative Sewage disposal methods are utilized, they shall be located a minimum distance from the sleeping rooms or other locations as approved by the local Health Department.

**8-903.2.3** Kitchen sinks shall be provided in all kitchens. The sink and counter top may be of any smooth non-absorbent finish which can be maintained in a sanitary condition.

**8-903.2.4** Hand washing facilities shall be provided for each dwelling unit and each hotel guest room. A basin and pitcher may be acceptable as adequate hand washing facilities.

**8-903.2.5** Hot or cold running water is not required for each plumbing fixture, provided a sufficient amount of water is supplied to permit the fixture's normal operation.

**8-903.2.6** Bathtubs and lavatories with filler spouts less than 1-inch (25.4mm) above the fixture rim may remain in use provided there is an acceptable overflow below the rim.

**8-903.2.7** Original or salvage water closets, urinals and flushometer valves shall be permitted in qualified historical buildings or properties. Historically accurate reproduction, non-low-consumption water closets, urinals, and flushometer valves, shall be permitted except where historically accurate fixtures that comply with the regular code are available.

**8-903.3 Materials.** New non-historical materials shall comply with the regular code requirements. The enforcing agency shall accept alternative materials which do not create a safety hazard where their use is necessary to maintain the historical integrity of the building.

**8-903.4 Drainage and Vent Systems.** Plumbing fixtures shall be connected to an adequate drainage and vent system. The enforcing agency may require operational tests for drainage and vent systems which do not comply with applicable requirements of the regular code. Vent terminations may be installed in any location which, in the opinion of the enforcing agency, does not create a safety hazard.

**8-903.5 Indirect and Special Wastes.** Indirect and special waste systems shall be installed so that no safety hazard is created. Chemical or industrial liquid wastes which may detrimentally affect the sanitary sewer system shall be pretreated to render them safe prior to discharge.

**8-903.6 Traps and Interceptors.** Traps and interceptors shall comply with the regular code requirements except that the enforcing agency shall accept alternatives which do not increase the safety hazard. Properly maintained "S" and drum traps may remain in use.

### **8-903.7 Joints and Connections.**

**8-903.7.1** Joints and connections in new plumbing systems shall comply with applicable requirements of the regular code.

**8-903.7.2** Joints and connections in existing or restored systems may be of any type that does not create a safety hazard.

**8-903.8 Water Distribution.** Plumbing fixtures shall be connected to an adequate water distribution system. The enforcing agency may require operational tests for water distribution systems which do not comply with applicable requirements of regular code. Prohibited (un-lawful) connections and cross connections shall not be permitted.

**8-903.9 Building Sewers and Private Sewage Disposal Systems.** New building sewers and new private sewage disposal systems shall comply with applicable requirements of the regular code.

**8-903.10 Fuel-gas Piping.** Fuel gas piping shall comply with the regular code requirements except that the enforcing agency shall accept alternatives which do not increase the safety hazard.

## **SECTION 904 ELECTRICAL**

**8-904.1 General.** Electrical systems shall comply with the regular code unless otherwise permitted by this code, or approved by the authority having jurisdiction.

**8-904.1.1** The provisions of the CHBC shall apply to the acceptance, location, installation, alteration, repair, relocation, replacement or addition of any electrical system or portion thereof, the premise wiring, or equipment fixed in place as related to restoration within or attached to a qualified historical building or property.

**8-904.1.2** Existing systems, wiring methods and electrical equipment which do not, in the opinion of the enforcing agency, constitute a safety hazard may remain in use.

**8-904.1.3** The enforcing agency may approve any alternative to the CHBC which achieves equivalent safety.

**8-904.1.4** Archaic methods that do not appear in present codes may remain and may be extended if, in the opinion of the enforcing agency, they constitute a safe installation.

### **8-904.2 Wiring Methods.**

**8-904.2.1** Where existing branch circuits do not include an equipment grounding conductor and, in the opinion of the enforcing agency, it is impracticable to connect an equipment grounding conductor to the grounding electrode system, receptacle convenience outlets may remain the non-grounding type.

**8-904.2.2** Ground fault circuit interrupter (GFCI) protected receptacles shall be installed where replacements are made at receptacle outlets that are required to be so protected by the regular code in effect at the time of replacement. Metallic face plates shall either be grounded to the grounded metal outlet box or be grounded to the grounding-type device when used with devices supplied by branch circuits without equipment grounding conductors.

**8-904.2.3** Grounding-type receptacles shall not be used without a grounding means in an existing receptacle outlet unless GFCI protected. Existing non-grounding receptacles shall be permitted to be replaced with non-grounding or grounding-type receptacles where supplied through a ground fault circuit interrupter.

**8-904.2.4** Extensions of existing branch circuits without equipment grounding conductors shall be permitted to supply grounding-type devices only when the equipment grounding conductor of the new extension is grounded to any accessible point on the grounding electrode system.

**8-904.2.5** Receptacle outlet spacing and other related distance requirements shall be waived or modified if determined to be impractical by the enforcing agency.

**8-904.2.6** For the replacement of lighting fixtures on an existing nongrounded lighting outlet, or when extending an existing nongrounding lighting outlet, the following shall apply:

1. The exposed conductive parts of lighting fixtures shall be connected to any acceptable point on the grounding electrode system, or
2. The lighting fixtures shall be made of insulating material and shall have no exposed conductive parts.

**Exception:** Lighting fixtures mounted on electrically non-conductive ceilings or walls where located not less than either 8 feet (2438mm) vertically or five 5 feet (1524mm) horizontally from grounded surfaces.

**8-904.2.7** Lighting load calculations for services and feeders may be based on actual loads as installed in lieu of the

"watts per square foot" method.

**8-904.2.8** Determination of existing loads may be based on maximum demand recordings in lieu of calculations provided all of the following are met:

1. Recordings are provided by the serving agency.
2. The maximum demand data is available for a one-year period.

**Exception:** If maximum demand data for one-year period is not available, the maximum demand data shall be permitted to be based on the actual amperes continuously recorded over a minimum 30-day period by a recording ammeter connected to the highest loaded phase of the feeder or service. The recording should reflect the maximum demand when the building or space is occupied and include the measured or calculated load at the peak time of the year, including the larger of the heating or cooling equipment load.

3. There has been no change in occupancy of character of load during the previous 12 months.
4. The anticipated load will not change, or the existing demand load at 125 percent plus the new load does not exceed the ampacity of the feeder or rating of the service.

## **CHAPTER 8-10 QUALIFIED HISTORICAL DISTRICTS, SITES AND OPEN SPACES**

### **SECTION 1001 PURPOSE AND SCOPE**

**8-1001.1. Purpose.** The purpose of this Chapter is to provide regulations for the preservation, rehabilitation, restoration and reconstruction of associated historical features of qualified historical buildings, properties or districts (as defined in Chapter 8-2), and for which Chapters 8-3 through 8-9 of the CHBC may not apply.

**8-1001.2. Scope.** This Chapter applies to the associated historical features of qualified historical buildings or properties ~~and~~ such as historic districts that are beyond the buildings themselves which include, but are not limited to natural features and designed site and landscape plans with natural and man-made landscape elements that support their function and aesthetics. This may include, but will not be limited to:

1. Site plan layout configurations and relationships (pedestrian, equestrian and vehicular site circulation, topographical grades and drainage, and use areas).
2. Landscape elements (plant materials, site structures other than the qualified historical buildings, bridges and their associated lighting, water features, art ornamentation, and pedestrian, equestrian and vehicular surfaces).
3. Functional elements (utility placement, erosion control and environmental mitigation measures).

### **SECTION 8-1002 APPLICATION**

**8-1002.1** The CHBC shall apply to all sites and districts and their features associated with qualified historical buildings or qualified historical districts as outlined in 8-1001.2 Scope.

**8-1002.2** Where the application of regular code may impact the associated features of qualified historical properties beyond their footprints, by work performed secondarily, those impacts shall also be covered by the CHBC.

**8-1002.3** This Chapter shall be applied for all issues regarding code compliance or other standard or regulation as they affect the purpose of this Chapter.

**8-1002.4** The application of any code or building standard shall not un-duly restrict the use of a qualified historical building or property that is otherwise permitted pursuant to Chapter 8-3 and the intent of the State Historical Building Code, §18956.

### **SECTION 8-1003**

**SITE RELATIONSHIPS**

The relationship between a building or property and its site, or the associated features of a district (including qualified historical landscape), site, objects and their features are critical components that may be one of the criteria for these buildings and properties to be qualified under the CHBC. The CHBC recognizes the importance of these relationships. This Chapter shall be used to provide context sensitive solutions for treatment of qualified historical buildings, properties, district or their associated historical features, or when work to be performed secondarily impacts the associated historical features of a qualified historical building or property.

**APPENDIX A**

**CHAPTER 8-1**

When modification must be made to qualified historical buildings or properties, the CHBC is intended to work in conjunction with the United States Secretary of Interior Standards for the Treatment of Historic Properties with Guidelines for Preserving, Rehabilitating, Restoring and Reconstructing Historic Buildings and the Secretary of Interior's Standards for the Treatment of Historic Properties with Guidelines for the Treatment of Cultural Landscapes.

**CHAPTER 8-6**

**TABLE 1  
PROVISION APPLICABILITY**

	<b>Title II Public Entities</b>	<b>Title III Private Entities</b>	<b>TIII Barrier Removal</b>
<p><b>SECTION 8-601 PURPOSE, INTENT, SCOPE</b></p> <p><b>8-601.1 Purpose.</b> The purpose of the CHBC is to provide alternative regulations to facilitate access and use by people with disabilities to and throughout facilities designated as qualified historical buildings or properties. These regulations require enforcing agencies to accept alternatives to regular code when dealing with qualified historical buildings or properties.</p> <p><b>8-601.2 Intent.</b> The intent of this chapter to preserve the integrity of qualified historical buildings and properties while providing access to and use by people with disabilities.</p> <p><b>8-601.3 Scope.</b> The CHBC shall apply to every qualified historical building or property that is required to provide access to people with disabilities.</p> <p>1. Provisions of this chapter do not apply to new construction or reconstruction/replicas of historical buildings.</p> <p>2. Where provisions of this chapter apply to alteration of qualified historical buildings or properties, alteration is defined in California Building Code (CBC), Chapter 2, Definitions and Abbreviations. 202 – A. Alter or Alteration</p> <p><b>8-601.4 General Application.</b> The provisions in the CHBC apply to local, state and federal governments (Title II entities); alteration of commercial facilities and places of public accommodation (Title III entities); and barrier removal in commercial facilities and places of public accommodation (Title III entities). Except as noted.</p>	Applies	Applies	Applies

<p><b>SECTION 8-602 — BASIC PROVISIONS</b></p> <p><b>8-602.1 Regular Code.</b> The regular code for access for people with disabilities (Title 24, Part 2, Vol.1, Chapter 11B) shall be applied to qualified historical buildings or properties unless strict compliance with the regular code will threaten or destroy the historical significance or character-defining features of the building or property.</p> <p><b>8-602.2 Alternative Provisions.</b> If the historical significance or character-defining features are threatened, alternative provisions for access may be applied pursuant to this chapter provided the following conditions are met:</p> <ol style="list-style-type: none"> <li>1. These provisions shall be applied only on an item-by-item or case-by-case basis.</li> <li>2. Documentation is provided, including meeting minutes or letters, stating the reasons for the application of the alternative provisions. Such documentation shall be retained in the permanent file of the enforcing agency.</li> </ol>	Applies	Applies	Applies
<p><b>SECTION 8-603 — ALTERNATIVES</b></p> <p><b>8-603.1. Alternative Minimum Standards.</b> The alternative minimum standards for alterations of qualified historical buildings or facilities are contained in Section 4.1.7(3) of ADA Standards for Accessible Design, as incorporated and set forth in federal regulation 28 C.F.R pt. 36.</p> <p><b>8-603.2 Entry.</b> These alternatives do not allow exceptions for the requirement of level landings in front of doors, except as provided in Section 8-603.4.</p> <ol style="list-style-type: none"> <li>1. Access to any entrance used by the general public and no further than 200 feet (60960mm) from the primary entrance.</li> <li>2. Access at any entrance not used by general public but open and un-locked with directional signs at the primary entrance and as close as possible to, but no further than 200 feet (60960 mm) from, the primary entrance.</li> <li>3. The accessible entrance shall have a notification system. Where security is a problem, remote monitoring may be used.</li> </ol> <p><b>8-603.3 Doors.</b> Alternatives listed in order of priority are:</p> <ol style="list-style-type: none"> <li>1. Single-leaf door which provides a minimum 30 inches (762 mm) of clear opening.</li> <li>2. Single-leaf door which provides a minimum 29½ inches (749mm) clear opening</li> <li>3. Double door, one leaf of which provides a minimum 29½ inches (749mm) clear opening.</li> <li>4. Double doors operable with a power-assist device to provide a minimum 29 ½ inches (749mm) clear opening when both doors are in the open position.</li> </ol> <p><b>Exception:</b> Alternatives in this section do not apply to alteration of commercial facilities and places of public accommodation (Title III entities).</p> <p><b>8-603.4 Power-assisted Doors.</b> Power-assisted door or doors may be considered an equivalent alternative to level landings, strikeside clearance and door-opening forces required by regular code.</p> <p><b>8-603.5 Toilet Rooms.</b> In lieu of separate-gender toilet facilities as required in the regular code, an accessible unisex toilet may be designated.</p> <p><b>8-603.6 Exterior and Interior Ramps and Lifts.</b> Alternatives listed in order of priority are:</p> <ol style="list-style-type: none"> <li>1. A lift or a ramp of greater than standard slope but no greater than 1:10, for horizontal distances not to exceed 5 feet (1525 mm). Signs shall be posted at</li> </ol>	Applies	Applies	Applies
	Applies	Applies	Applies
<p><b>8-603.3 Doors.</b> Alternatives listed in order of priority are:</p> <ol style="list-style-type: none"> <li>1. Single-leaf door which provides a minimum 30 inches (762 mm) of clear opening.</li> <li>2. Single-leaf door which provides a minimum 29½ inches (749mm) clear opening</li> <li>3. Double door, one leaf of which provides a minimum 29½ inches (749mm) clear opening.</li> <li>4. Double doors operable with a power-assist device to provide a minimum 29 ½ inches (749mm) clear opening when both doors are in the open position.</li> </ol> <p><b>Exception:</b> Alternatives in this section do not apply to alteration of commercial facilities and places of public accommodation (Title III entities).</p>	Does not apply	Does not apply	Applies
<p><b>8-603.4 Power-assisted Doors.</b> Power-assisted door or doors may be considered an equivalent alternative to level landings, strikeside clearance and door-opening forces required by regular code.</p>	<del>Does not apply</del> Applies	<del>Does not apply</del> Applies	Applies
<p><b>8-603.5 Toilet Rooms.</b> In lieu of separate-gender toilet facilities as required in the regular code, an accessible unisex toilet may be designated.</p>	Applies	Applies	Applies
<p><b>8-603.6 Exterior and Interior Ramps and Lifts.</b> Alternatives listed in order of priority are:</p> <ol style="list-style-type: none"> <li>1. A lift or a ramp of greater than standard slope but no greater than 1:10, for horizontal distances not to exceed 5 feet (1525 mm). Signs shall be posted at</li> </ol>	Applies	Applies	Applies

<p>upper and lower levels to indicate steepness of the slope.</p> <p>2. Access by ramps of 1:6 slope for horizontal distance not to exceed 13 inches (330 mm). Signs shall be posted at upper and lower levels to indicate steepness of the slope.</p>			
<p><b>SECTION 8-604 — EQUIVALENT FACILITATION</b>  Use of other designs and technologies, or deviation from particular technical and scoping requirements, are permitted if the application of the alternative provisions contained in Section 8-603 would threaten or destroy the <del>qualified</del> historical significance or character-defining features of the qualified historical building or property</p> <p>1. Such alternatives shall be applied only on an item-by-item or case-by-case basis.</p> <p>2. Access provided by experiences, services, functions, materials and resources through methods including, but not limited to, maps, plans, videos, virtual reality, and related equipment, at accessible levels. The alternative design and/or technologies used will provide substantially equivalent or greater accessibility to, and usability of, the facility.</p> <p>3. The official charged with the enforcement of the standards shall document the reasons for the application of the design and/or technologies and their effect on the <del>qualified</del> historical significance or character-defining features. Such documentation shall be in accordance with Section 8-602.2, Item 3 2, and shall include the opinion and comments of state or local accessibility officials, and the opinion and comments of representative local groups of people with disabilities. Such documentation shall be retained in the permanent file of the enforcing agency. Copies of the required documentation should be available at the facility upon request.</p> <p><b>Note:</b> For commercial facilities and places of public accommodation (Title III entities).</p> <p>Equivalent facilitation for an element of a building or property when applied as a waiver of an ADA accessibility requirement will not be entitled to the Federal Department of Justice certification of this code as rebuttable evidence of compliance for that element.</p>	Applies	<p><b>Waivers</b>  If a builder applies for a waiver of an ADA accessibility requirement for an element of a building, he or she will not be entitled to certification's rebuttable evidence of compliance for that</p> <p>Element.  This limitation on the certification determination should be noted in any publication of Chapter 8-6 if certification is granted.</p>	Applies
<p>Notes:</p> <ol style="list-style-type: none"> <li>1. The regular code for Chapter 8-6 is contained in Title 24, Part 2, Vol.1, Chapter 11, which contain standards for new construction.</li> <li>2. Provisions of this chapter may be used in conjunction with all other provisions of the regular code and ADA regulations</li> </ol>			

**HISTORY NOTE**

**CALIFORNIA HISTORICAL BUILDING CODE  
(Title 24, Part 8, California Code of Regulations)**

2001 Edition California Historical Building Code was published May 1, 2002. The California Building Standards Commission established the effective date as November 1, 2002.

The 2007 Edition of the California Historical Building Code was published (date to be determined) 2006. The California Building Standards Commission established the effective date as (date to be determined).