FINAL EXPRESS TERMS
FOR
PROPOSED BUILDING STANDARDS
OF THE
CALIFORNIA BUILDING STANDARDS COMMISSION

REGARDING THE ADOPTION OF THE 2009 INTERNATIONAL BUILDING CODE (IBC) FOR USE AS THE 2010 CALIFORNIA BUILDING CODE (CBC), TITLE 24, PART 2, CALIFORNIA CODE OF REGULATIONS (CCR)

LEGEND FOR EXPRESS TERMS

1. Existing California amendments or code language being modified, as well as selected terms set forth in Chapter 2, Definitions are in italics when they appear in the model code text, independent of state amended definitions: All such language appears in *italics*, modified language is underlined.
2. New California amendments: All such language appears *underlined and in italics*.
3. Repealed text: All such language appears in ~~strikeout~~.

CHAPTER 1

Adopting Agency	BSC	COMMENTS
Adopt Entire Chapter without amendments		
Adopt Entire Chapter as amended (amended sections listed below)		
Adopt Only those sections that are listed below	**X**	
~~*101*~~ *1.1*	**X**	
~~*102*~~ *1.2*	**X**	

AMENDMENTS:

~~CALIFORNIA CHAPTER 1~~
~~GENERAL CODE PROVISIONS~~

CHAPTER 1

CALIFORNIA ADMINISTRATION

DIVISION I

~~101.0~~ 1.1.0 General

~~101.1~~ 1.1.1 Title. *These regulations shall be known as the California Building Code, may be cited as such and will be referred to herein as "this code." The California Building Code is Part 2 of twelve parts of the official compilation and publication of the adoption~~s~~, amendment, and repeal of building regulations to the California Code of Regulations, Title 24, also referred to as the California Building Standards Code. This part incorporates by adoption the ~~2006~~ 2009 International Building Code of the International Code Council with necessary California amendments.*

~~101.2~~ 1.1.2 Purpose. *The purpose of this code is to establish the minimum requirements to safeguard the public health, safety and general welfare through structural strength, means of egress facilities, stability, access to persons with disabilities, sanitation, adequate lighting and ventilation, and energy conservation; safety to life and property from fire and other hazards attributed to the built environment; and to provide safety to fire fighters and emergency responders during emergency operations.*

~~101.3~~ 1.1.3 Scope. *The provisions of this code shall apply to the construction, alteration, movement, enlargement, replacement, repair, equipment, use and occupancy, location, maintenance, removal and demolition of every building or structure or any appurtenances connected or attached to such buildings or structures throughout the State of California.*

~~101.3.1~~ 1.1.3.1 Nonstate-regulated buildings, structures, and applications. *Except as modified by local ordinance pursuant to Section ~~101.8~~ 1.1.8, the following standards in the California Code of Regulations, Title 24, Parts 2, 2.5, 3, 4, 5, 6, 9, ~~and~~ 10 and 11 shall apply to all occupancies and applications not regulated by a state agency.*

~~101.3.2~~ 1.1.3.2 State-regulated buildings, structures, and applications. *The model code, state amendments to the model code, and/or state amendments where there are no relevant model code provisions shall apply to the following buildings, structures, and applications regulated by state agencies as referenced in the Matrix Adoption Tables and as specified in ~~s~~Section~~s~~ ~~102~~ 1.2 through ~~114~~ 1.14, except where modified by local ordinance pursuant to Section ~~101.8~~ 1.1.8. When adopted by a state agency, the provisions of this code shall be enforced by the appropriate enforcing agency, but only to the extent of authority granted to such agency by the state legislature.*

Note: *See Preface to distinguish the model code provisions from the California provisions.*

1. *State-owned buildings, including buildings constructed by the Trustees of the California State University, and to the extent permitted by California laws, buildings designed and constructed by the Regents of the University of California, and regulated by the Building Standards Commission. See Section ~~102~~ 1.2 for additional scope provisions.*

2. *Local detention facilities regulated by the Corrections Standards Authority. See Section ~~103~~ 1.3 for additional scope provisions.*

3. *Barbering, cosmetology or electrolysis establishments, acupuncture offices, pharmacies, veterinary facilities, and structural pest control locations regulated by the Department of Consumer Affairs. See Section ~~104~~ 1.4 for additional scope provisions.*

4. *Reserved for the California Energy Commission. See Section ~~105~~ 1.5 for additional scope provisions.*

5. *Dairies and places of meat inspection regulated by the Department of Food and Agriculture. See Section ~~106~~ 1.6 for additional scope provisions.*

6. *Organized camps, laboratory animal quarters, public swimming pools, radiation protection, commissaries serving mobile food preparation vehicles~~,~~ and wild animal quarantine facilities regulated by the Department of Public Health ~~Services~~. See Section ~~107~~ 1.7 for additional scope provisions.*

7. *Hotels, motels, lodging houses, apartment houses, dwellings, dormitories, condominiums, shelters for homeless persons, congregate residences, employee housing, factory-built housing~~,~~ and other types of dwellings containing sleeping accommodations with or without common toilets or cooking facilities. See Section ~~108~~ 1.8.2.1.1 for additional scope provisions.*

8. *Accommodations for persons with disabilities in buildings containing newly constructed covered multifamily dwellings, new common use spaces serving existing covered multifamily dwellings, additions to existing buildings where the addition alone meets the definition of ~~a Covered multifamily dwelling~~ "COVERED MULTIFAMILY DWELLINGS," and common-use spaces serving covered multifamily dwellings which are regulated by the Department of Housing and Community Development. See Section ~~108~~ 1.8.2.1.2 for additional scope provisions.*

9. *Permanent buildings and permanent accessory buildings or structures constructed within mobilehome parks and special occupancy parks regulated by the Department of Housing and Community Development. See Section ~~108~~ 1.8.2.1.3 for additional scope provisions.*

10. *Accommodations for persons with disabilities regulated by the Division of the State Architect. See Section ~~109.1~~ 1.9.1 for additional scope provisions.*

11. *Public elementary and secondary schools, community college buildings~~,~~ and state-owned or state-leased essential service buildings regulated by the Division of the State Architect. See Section ~~109.2~~ 1.9.2 for additional scope provisions.*

12. *Reserved for the State Historical Building Safety Board with the Division of the State Architect. See Section ~~109.3~~ 1.9.3 for additional scope provisions.*

13. *General acute care hospitals, acute psychiatric hospitals, skilled nursing and/or intermediate care facilities, clinics licensed by the Department of Public Health ~~Services~~ and correctional treatment centers regulated by the Office of Statewide Health Planning and Development. See Section ~~110~~ 1.10 for additional scope provisions.*

14. *Applications regulated by the Office of State Fire Marshal include but are not limited to the following in accordance with Section ~~111~~ 1.11:*

    ~~14.~~1. Buildings or structures used or intended for use as an:

        ~~14.~~1.1. Asylum, jail, prison.

        ~~14.~~1.2. Mental hospital, hospital, home for the elderly, children's nursery, children's home or institution, school or any similar occupancy of any capacity.

        ~~14.~~1.3. Theater, dancehall, skating rink, auditorium, assembly hall, meeting hall, nightclub, fair building~~,~~ or similar place of assemblage where 50 or more persons may gather together in a building, room or structure for the purpose of amusement, entertainment, instruction, deliberation, worship, drinking or dining, awaiting transportation, or education.

        ~~14.~~1.4. Small family day care homes, large family day-care homes, residential facilities and residential facilities for the elderly, residential care facilities.

        ~~14.~~1.5. State institutions or other state-owned or state-occupied buildings.

        ~~14.~~1.6. High rise structures.

        ~~14.~~1.7. Motion picture production studios.

        ~~14.~~1.8. Organized camps.

        ~~14.~~1.9. Residential structures.

    ~~14.~~2. Tents, awnings or other fabric enclosures used in connection with any occupancy.

    ~~14.~~3. Fire alarm devices, equipment and systems in connection with any occupancy.

    ~~14.~~4. Hazardous materials, flammable and combustible liquids.

    ~~14.~~5. Public school automatic fire detection, alarm~~,~~ and sprinkler systems.

    ~~14.~~6. Wildland-urban interface fire areas.

15. *Public libraries constructed and renovated using funds from the California Library Construction and Renovation Bond Act of 1988 and regulated by the State Librarian. See Section ~~112~~ 1.12 for additional scope provisions.*

16. *Graywater systems regulated by the Department of Water Resources. See Section ~~113~~ 1.13 for additional scope provisions.*

17. *For applications listed in Section ~~109.1~~ 1.9.1 regulated by the Division of the State Architect – Access Compliance, outdoor environments and uses shall be classified according to accessibility uses described in Chapter 11A, 11B and 11C.*

18. *Marine Oil Terminals regulated by the California State Lands Commission. See Section ~~114~~ 1.14 for additional scope provisions.*

***~~101.4~~ 1.1.4* Appendices.** *Provisions contained in the appendices of this code shall not apply unless specifically adopted by a state agency or adopted by a local enforcing agency in compliance with Health and Safety Code Section ~~18938 (b)~~ 18901 et. seq. for Building Standards Law, Health and Safety Code Section 17950 for State Housing Law and Health and Safety Code Section 13869.7 for Fire Protection Districts. See Section ~~101.8~~ 1.1.8 of this code.*

***~~101.5~~ 1.1.5* Referenced codes.** *The codes, standards and publications adopted and set forth in this code, including other codes, standards and publications referred to therein are, by title and date of publication, hereby adopted as standard reference documents of this code. When this code does not specifically cover any subject related to building design and construction, recognized architectural or engineering practices shall be employed. The National Fire Codes, standards, and the Fire Protection Handbook of the National Fire Protection Association are permitted to be used as authoritative guides in determining recognized fire prevention engineering practices.*

***~~101.6~~ 1.1.6* NonBuilding standards, orders and regulations.** *Requirements contained in the International Building Code, or in any other referenced standard, code or document, which are not building standards as defined in Health and Safety Code Section 18909, shall not be construed as part of the provisions of this code. For nonbuilding standards, orders, and regulations, see other titles of the California Code of Regulations.*

***~~101.7~~ 1.1.7* Order of precedence and use.**

***~~101.7.1~~ 1.1.7.1* Differences.** *In the event of any differences between these building standards and the standard reference documents, the text of these building standards shall govern.*

***~~101.7.2~~ 1.1.7.2* Specific provisions.** *Where a specific provision varies from a general provision, the specific provision shall apply.*

***~~101.7.3~~ 1.1.7.3* Conflicts.** *When the requirements of this code conflict with the requirements of any other part of the California Building Standards Code, Title 24, the most restrictive requirements shall prevail.*

***~~101.8~~ 1.1.8* City, county, or city and county amendments, additions or deletions.**
The provisions of this code do not limit the authority of city, county, or city and county governments to establish more restrictive and reasonably necessary differences to the provisions contained in this code pursuant to complying with Section ~~101.8.1~~ 1.1.8.1. The effective date of amendments, additions, or deletions to this code of cities, counties, or city and counties filed pursuant to Section ~~101.8.1~~ 1.1.8.1 shall be the date filed. However, in no case shall the amendments, additions or deletions to this code be effective any sooner than the effective date of this code.

Local modifications shall comply with Health and Safety Code Section 18941.5 for Building Standards Law, Health and Safety Code Section 17958 for State Housing Law or Health and Safety Code Section 13869.7 for Fire Protection Districts.

***~~101.8.1~~ 1.1.8.1* Findings and filings.**

1. *The city, county, or city and county shall make express findings for each amendment, addition or deletion based upon climatic, topographical, or geological conditions.*

   Exception: *Hazardous building ordinances and programs mitigating unreinforced masonry buildings.*

2. *The city, county, or city and county shall file the amendments, additions~~,~~ or deletions expressly marked and identified as to the applicable findings. Cities, counties, cities and counties, and fire departments shall file the amendments, additions or deletions, and the findings with the California Building Standards Commission at 2525 Natomas Park Drive, Suite 130, Sacramento, CA 95833.*

3. *Findings prepared by fire protection districts shall be ratified by the local city, county, or city and county and filed with the California Department of Housing and Community Development, Division of Codes and Standards, P.O. Box 1407, Sacramento, CA 95812-1407 or ~~at~~ 1800 3rd Street, Room 260, Sacramento, CA ~~95814~~ 95811.*

***~~101.9~~ 1.1.9* Effective date of this code.** *Only those standards approved by the California Building Standards Commission that are effective at the time an application for building permit is submitted shall apply to the plans and specifications for, and to the construction performed under, that permit. For the effective dates of the provisions contained in this code, see the History Note page of this code.*

***~~101.10~~ 1.1.10* Availability of codes.** *At least one ~~entire~~ complete copy each of Titles 8, 19, 20, 24, and 25 with all revisions shall be maintained in the office of the building official responsible for the administration and enforcement of this code. Each state department concerned and each city, county or city and county shall have an up-to-date copy of the code available for public inspection. See Health and Safety Code Section 18942 (d)(1) and (2).*

***~~101.11~~ 1.1.11* Format.** *This part fundamentally adopts the International Building Code by reference on a chapter-by-chapter basis. Such adoption is reflected in the Matrix Adoption Table of each chapter of this part. When the Matrix Adoption Tables make no reference to a specific chapter of the International Building Code such chapter of the International Building Code is not adopted as a portion of this code.*

***~~101.12~~ 1.1.12* Validity.** *If any chapter, section, subsection, sentence, clause or phrase of this code is for any reason held to be unconstitutional, contrary to statute, exceeding the authority of the state as stipulated by statutes or otherwise inoperative, such decision shall not affect the validity of the remaining portion of this code.*

SECTION ~~102~~ 1.2
BUILDING STANDARDS COMMISSION

***~~102.1~~ 1.2.1** Specific scope of application of the agency responsible for enforcement, the enforcement agency and the specific authority to adopt and enforce such provisions of this code, unless otherwise stated.*

1. ***State buildings for all occupancies.***

   Application – *State buildings (all occupancies), including buildings constructed by the Trustees of the California State University and the Regents of the University of California where no state agency has the authority to adopt building standards applicable to such buildings.*
   Enforcing agency – *State of local agency specified by the applicable provisions of law.*
   Authority cited – *Health and Safety Code Section 18934.6.*
   Reference – *Health and Safety Code, Division 13, Part 2.5, commencing with Section 18901.*

2. ***University of California, California State Universities and California Community Colleges.***

   Application – *Standards for lighting for parking lots and primary campus walkways at the University of California, California State Universities and California Community Colleges.*
   Enforcing agency – *State of local agency specified by the applicable provisions of law.*
   Authority cited – *Government Code Section 14617.*
   Reference – *Government Code Section 14617.*

3. ***Existing state-owned buildings, including those owned by the University of California and by the California State University.***

   Application – *Building seismic retrofit standards including abating falling hazards of structural and nonstructural components and strengthening of building structures. See also Division of the State Architect.*
   Enforcing agency – *State of local agency specified by the applicable provisions of law.*
   Authority cited – *Health and Safety Code Section 16600.*
   Reference – *Health and Safety Code Section 16600 through 16604.*

4. ***Unreinforced masonry-bearing wall buildings.***

   Application – *Minimum seismic strengthening standards for building specified in Appendix Chapter A1 of the California Existing Building Code, except for buildings subject to building standards adopted pursuant to Health and Safety Code (commencing) with Section 17910.*
   Enforcing agency - *State of local agency specified by the applicable provisions of law.*
   Authority cited - *Health and Safety Code Section 18934.6.*

1.2.1.1 State building. *For purposes of this code, a "state building" is a structure for which a state agency or state entity has authority to construct, alter, enlarge, replace, repair, or demolish.*

1.2.1.2 Enforcement. [For CSU, UC, Judicial Council, and CDCR] *State agencies or state entities authorized to construct state buildings may appoint a Building Official who is responsible to the agency for enforcement of the provisions of the California Building Standards Code.*

Exceptions:

State buildings regulated by other sections of this code remain the enforcement responsibility of the designated entities.

1.2.1.3 Enforcement. *Reserved for DGS.*

1.2.2 Alternative materials, design and methods of construction and equipment. *The provisions of this code are not intended to prevent the installation of any material or to prohibit any design or method of construction not specifically prescribed by this code, provided that any such alternative has been approved. An alternative material, design or method of construction shall be approved where the building official finds that the proposed design is satisfactory and complies with the intent of the provisions of this code, and that the material, method or work offered is, for the purpose intended, at least the equivalent of that prescribed in this code in quality, strength, effectiveness, fire resistance, durability and safety.*

1.2.2.1 Research reports. *Supporting data, where necessary to assist in the approval of materials or assemblies not specifically provided for in this code, shall consist of valid research reports from approved sources.*

1.2.2.2 Tests. *Whenever there is insufficient evidence of compliance with the provisions of this code, or evidence that a material or method does not conform to the requirements of this code, or in order to substantiate claims for alternative materials or methods, the building official shall have the authority to require tests as evidence of compliance to be made at no expense to the jurisdiction. Test methods shall be as specified in this code or by other recognized test standards. In the absence of recognized and accepted test methods, the building official shall approve the testing procedures. Tests shall be performed by an approved agency. Reports of such tests shall be retained by the building official for the period required for retention of public records.*

~~APPENDIX CHAPTER 1~~

ADMINISTRATION

DIVISION II

(Chapter 1, Administration has been relocated from *Appendix Chapter 1* and renamed *Division II)*

. . .

Notation
Authority: Health and Safety Code §18934.5
References: Health and Safety Code §18934.5

CHAPTER 2
DEFINITIONS

Adopting Agency	BSC	COMMENTS
Adopt Entire Chapter without amendments	**X**	

Adopt Entire Chapter as amended (amended sections listed below)		
Adopt Only those sections that are listed below		

AMENDMENTS:

Adopt and/or codify entire chapter unamended:

Notation
Authority: Health and Safety Code §18928 & 18934.5
References: Health and Safety Code §§18928, 18928.1, & 18934.5

CHAPTER 3
USE AND OCCUPANCY CLASSIFICATION

Adopting Agency	BSC	COMMENTS
Adopt Entire Chapter without amendments	**X**	
Adopt Entire Chapter as amended (amended sections listed below)		
Adopt Only those sections that are listed below		

Adopt and/or codify entire chapter unamended.

Authority: Health and Safety Code §18928 & 18934.5
References: Health and Safety Code §§18928, 18928.1, & 18934.5

CHAPTER 4
SPECIAL DETAILED REQUIREMENTS BASED UPON USE AND OCCUPANCY

Adopting Agency	BSC	COMMENTS
Adopt Entire Chapter without amendments	**X**	
Adopt Entire Chapter as amended (amended sections listed below)		
Adopt Only those sections that are listed below		

Adopt and/or codify entire chapter unamended:

Notation

Authority: Health and Safety Code §18928 & 18934.5
References: Health and Safety Code §§18928, 18928.1, & 18934.5

CHAPTER 5
GENERAL BUILDING HEIGHT AND AREA

Adopting Agency	BSC	COMMENTS
Adopt Entire Chapter without amendments	**X**	
Adopt Entire Chapter as amended (amended sections listed below)		
Adopt Only those sections that are listed below		

Adopt and/or codify entire chapter unamended.

Notation
Authority: Health and Safety Code §18928 & 18934.5
References: Health and Safety Code §§18928, 18928.1, & 18934.5

CHAPTER 6
TYPES OF CONSTRUCTION

Adopting Agency	BSC	COMMENTS
Adopt Entire Chapter without amendments	**X**	
Adopt Entire Chapter as amended (amended sections listed below)		
Adopt Only those sections that are listed below		

Adopt and/or codify entire chapter unamended:

Notation
Authority: Health and Safety Code §18928 & 18934.5
References: Health and Safety Code §§18928, 18928.1, & 18934.5

CHAPTER 7
FIRE-RESISTANCE-RATED-CONSTRUCTION

Adopting Agency	BSC	COMMENTS
Adopt Entire Chapter without amendments	**X**	
Adopt Entire Chapter as amended (amended sections listed below)		
Adopt Only those sections that are listed below		

Adopt and/or codify entire chapter unamended:

Notation
Authority: Health and Safety Code §18928 & 18934.5
References: Health and Safety Code §§18928, 18928.1, & 18934.5

CHAPTER 8
INTERIOR FINISHES

Adopting Agency	BSC	COMMENTS
Adopt Entire Chapter without amendments	**X**	
Adopt Entire Chapter as amended (amended sections listed below)		
Adopt Only those sections that are listed below		

Adopt and/or codify entire chapter unamended.

Notation
Authority: Health and Safety Code §18928 & 18934.5
References: Health and Safety Code §§18928, 18928.1, & 18934.5

CHAPTER 9
FIRE PROTECTION SYSTEMS

Adopting Agency	BSC	COMMENTS
Adopt Entire Chapter without amendments	**X**	
Adopt Entire Chapter as amended (amended sections listed below)		
Adopt Only those sections that are listed below		

Adopt and/or codify entire chapter unamended:

Notation
Authority: Health and Safety Code §18928 & 18934.5
References: Health and Safety Code §§18928, 18928.1, & 18934.5

CHAPTER 10
MEANS OF EGRESS

Adopt and/or codify entire chapter as amended below:

Adopting Agency	BSC	COMMENTS

Adopt Entire Chapter without amendments	**X**	
Adopt Entire Chapter as amended (amended sections listed below)		
Adopt Only those sections that are listed below		

Adopt and/or codify entire chapter unamended:

Notation
Authority: Health and Safety Code §18928 & 18934.5
References: Health and Safety Code §§18928, 18928.1, & 18934.5

CHAPTER 11 OF THE 2009 IBC IS NOT ADOPTED BY THE STATE OF CALIFORNIA

Notation
Authority: Health and Safety Code §18928 & 18934.5
References: Health and Safety Code §§18928, 18928.1, & 18934.5

CHAPTER 12
INTERIOR ENVIRONMENT

Adopt and/or codify entire chapter as amended below:

Adopting Agency	BSC	COMMENTS
Adopt Entire Chapter without amendments		
Adopt Entire Chapter as amended (amended sections listed below)	**X**	
Adopt Only those sections that are listed below		
1205.6	**X**	Move existing amendment forward to the 2010 CBC

AMENDMENTS:

1205.6 [2001 CBC Section 400A] ***Campus Lighting for Parking Facilities and Primary Walkways at California State Universities, Colleges and Community Colleges.*** *Artificial light shall be provided for parking facilities and primary walkways at California State Universities, colleges, and community colleges in accordance with provisions of this subsection. This subsection shall not apply to the University of California unless the Regents of the University of California, by resolution, make it applicable.*

1205.6.1 Lighting Requirements. *Based on the recommendations of the most current edition of the Illumination Engineering Society lighting handbook, for the following lighting standards shall be used for all new construction of open parking facilities, covered parking facilities and primary walkways:*

1. Open and covered parking facilities.

1.1 Medium-level activity usage when medium usage is present.

1.2 High-level activity usage when high usage is present.

2. Primary campus walkways.
2.1 Medium-level activity usage when medium usage is present.
2.2 High-level activity usage when high usage is present

Notation
Authority: Government Code §14617
Reference: Government Code §14617

CHAPTER 13
ENERGY EFFICIENCY

Adopting Agency	BSC	COMMENTS
Adopt Entire Chapter without amendments		
Adopt Entire Chapter as amended (amended sections listed below)		
Adopt Only those sections that are listed below		

Refer to California Energy Code, Title 24, Part 6

Notation
Authority: Health and Safety Code §18928 & 18934.5
References: Health and Safety Code §§18928, 18928.1, & 18934.5

CHAPTER 14
EXTERIOR WALLS

Adopt and/or codify entire chapter as amended below:

Adopting Agency	BSC	COMMENTS
Adopt Entire Chapter without amendments	**X**	
Adopt Entire Chapter as amended (amended sections listed below)		
Adopt Only those sections that are listed below		

Notation
Authority: Health and Safety Code §18928 & 18934.5
References: Health and Safety Code §§18928, 18928.1, & 18934.5

CHAPTER 15
ROOF ASSEMBLIES AND ROOF TOP STRUCTURES

Adopt and/or codify entire chapter unamended:

Adopting Agency	BSC	COMMENTS
Adopt Entire Chapter without amendments	**X**	
Adopt Entire Chapter as amended (amended sections listed below)		
Adopt Only those sections that are listed below		

Notation
Authority: Health and Safety Code §18928 & 18934.5
References: Health and Safety Code §§18928, 18928.1, & 18934.5

CHAPTERS 16
STRUCTURAL DESIGN

Adopt and/or codify entire chapter unamended:

Adopting Agency	BSC	COMMENTS
Adopt Entire Chapter without amendments		
Adopt Entire Chapter as amended (amended sections listed below)	**X**	
Adopt Only those sections that are listed below		
1613.1.2 w/ Exception	**X**	
1613.3.1	**X**	
1613.6.3	**X**	

AMENDMENTS:

1603.1.8 Systems and components requiring special inspections for seismic resistance. Construction documents or specifications shall be prepared for those systems and components requiring special inspection for seismic resistance as specified in Section 1707.1 by the registered design professional responsible for their design and shall be submitted for approval in accordance with Section ~~106.1~~ *1.6.1*, ~~*Appendix*~~ *Chapter 1, Division I*. Reference to seismic standards in lieu of detailed drawings is acceptable.

1609.1.1 Determination of wind loads. Wind loads on every building or structure shall be determined in accordance with Chapter 6 of ASCE 7 ~~*[BSC, OSHPD 2, HCD 1 & HCD 2] or provisions of the Alternate All-Heights Method in Section 1609.6*~~. or provisions of the Alternate All-Heights Method in Section 1609.6. The type of opening protection required, the basic…

~~***1609.6 [BSC] Alternate All Heights Method.*** *The alternate wind design provisions in this section are simplifications of the ASCE 7 Method 2-Analytical Procedure.*~~

~~***1609.6.1 Scope****: As an alternate to ASCE 7 Section 6.5, the following provisions are permitted to be used to determine the wind effects on regularly shaped buildings, or other structures which meet all of the following conditions:*~~

~~*1. The building or other structure is less than or equal to 75 feet height having height to least width ratio of 4 or less, or the building or other structure has a fundamental frequency greater than or equal to 1 hertz.*~~

~~*2. The building or other structure is not sensitive to dynamic effects.*~~

~~*3. The building or other structure is not located on a site for which channeling effects or buffeting in the wake of upwind obstructions warrant special consideration.*~~

4. The building shall meet the requirements of a simple diaphragm building as defined in ASCE 7 Section 6.2.

1609.6.1.1 Modifications. The following modifications shall be made to certain subsections in ASCE 7: Section 1609.6.2 Symbols and Notations that are specific to this section are used in conjunction with the Symbols and Notations in ASCE 7 Section 6.3.

1609.6.2 Symbols and Notations. Coefficients and variables used in the Alternate All Heights Method equations are as follows:

C_{net} = net pressure coefficient based on K_d [(G) (C_p) – (GC_{pi})], Ref. Table 1609.6.2(2)
G = Gust effect factor equal to 0.85 for rigid structures per ASCE 7 Section 6.5.8.1.
K_d = Wind directionality factor per ASCE 7 Table 6-4.
P_{net} = Design wind pressure to be used in determination of wind loads on buildings or other structures or their components and cladding, in lb/ft^2 (N/m^2).
q_s = Wind velocity pressure in lb/ft^2 (N/m^2). (Per Table 1609.6.2(1))

Table 1609.6.2(1)
Wind Velocity Pressure (q_s) at Standard Height of 33 Feet[a,b,c]

BASIC WIND SPEED, V (mph)	85	90	100	105	110	120	125	130	140	150	160	170
PRESSURE, q_s (psf)	18.5	20.7	25.6	28.2	31.0	36.9	40.0	43.3	50.2	57.6	65.5	74.0

a. For Wind Speeds not shown, use $q_s = 0.00256\ V^2$
b. Multiply by 1.61 to convert to km/h
c. Multiply by 0.048 to convert to kN/m^2

Table 1609.6.2(2) – Net Pressure Coefficients, C_{net}[a,b,c]

STRUCTURE OR PART THEREOF	DESCRIPTION		C_{net} FACTOR	
	WALLS:		Enclosed	Part Enclosed
	Windward Wall		0.43	0.11
	Leeward Wall		-0.51	-0.83
	Side Wall		-0.66	-0.97
	Parapet Wall	Windward	1.28	1.28
		Leeward	-0.85	-0.85
	ROOFS:		Enclosed	Part Enclosed
	Wind perpendicular to ridge			
	Leeward roof or flat roof		-0.66	-0.97
	Windward roof slopes:			

	~~Slope < 2:12 (10°)~~	~~Case 1~~	~~-1.09~~	~~-1.41~~
		~~Case 2~~	~~-0.28~~	~~-0.60~~
	~~Slope = 4:12 (18°)~~	~~Case 1~~	~~-0.73~~	~~-1.04~~
		~~Case 2~~	~~-0.05~~	~~-0.37~~
	~~Slope = 5:12 (23°)~~	~~Case 1~~	~~-0.58~~	~~-0.90~~
		~~Case 2~~	~~0.03~~	~~-0.29~~
	~~Slope = 6:12 (27°)~~	~~Case 1~~	~~-0.47~~	~~-0.78~~
		~~Case 2~~	~~0.06~~	~~-0.25~~
	~~Slope = 7:12 (30°)~~	~~Case 1~~	~~-0.37~~	~~-0.68~~
		~~Case 2~~	~~0.07~~	~~-0.25~~
	~~Slope 9:12 (37°)~~	~~Case 1~~	~~-0.27~~	~~-0.58~~
		~~Case 2~~	~~0.14~~	~~-0.18~~
	~~Slope 12:12 (45°)~~		~~-0.15~~	~~-0.47~~
	~~Wind parallel to ridge and flat roofs~~		~~-1.09~~	~~-1.41~~
	~~Non Building Structures: Chimneys, Tanks and Similar Structures:~~			
			~~h/D~~	
			~~1~~	~~7~~	~~25~~
	~~Square (Wind normal to face)~~		~~0.99~~	~~1.07~~	~~1.53~~
	~~Square (Wind on diagonal)~~		~~0.77~~	~~0.84~~	~~1.15~~
	~~Hexagonal or Octagonal~~		~~0.81~~	~~0.97~~	~~1.13~~
	~~Round~~		~~0.65~~	~~0.81~~	~~0.97~~
	~~Open Signs and Lattice Frameworks~~		~~Ratio of solid to gross area~~	
			~~< 0.1~~	~~0.1 to 0.29~~	~~0.3 to 0.7~~
	~~Flat~~		~~1.45~~	~~1.30~~	~~1.16~~
	~~Round~~		~~0.87~~	~~0.94~~	~~1.08~~

~~2. Components and Cladding not in areas of discontinuity – Roofs and overhangs~~	~~Roof Elements and slopes~~		~~Enclosed~~	~~Partially Enc.~~
	~~Gable or Hipped Configurations (Zone 1)~~			
	~~Flat < Slope < 6:12 (27°)~~			
	~~Positive~~	~~10 SF or less~~	~~0.58~~	~~0.89~~
		~~100 SF or more~~	~~0.41~~	~~0.72~~
	~~Negative~~	~~10 SF or less~~	~~-1.00~~	~~-1.32~~
		~~100 SF or more~~	~~-0.92~~	~~-1.23~~
	~~Overhang: Flat < Slope < 6:12 (27°)~~			
	~~Negative~~	~~10 SF or less~~	~~-1.45~~	

		~~100 SF or more~~	~~-1.36~~	
		~~500 SF or more~~	~~-0.94~~	
	~~6:12 (27°) < Slope < 12:12 (45°)~~			
	~~Positive~~	~~10 SF or less~~	~~0.92~~	~~1.23~~
		~~100 SF or more~~	~~0.83~~	~~1.15~~
	~~Negative~~	~~10 SF or less~~	~~-1.00~~	~~-1.32~~
		~~100 SF or more~~	~~-0.83~~	~~-1.15~~
	~~Monosloped Configurations (Zone 1)~~		~~Enclosed~~	~~Partially Enc.~~
	~~Flat < Slope < 7:12 (30°)~~			
	~~Positive~~	~~10 SF or less~~	~~0.49~~	~~0.81~~
		~~100 SF or more~~	~~0.41~~	~~0.72~~
	~~Negative~~	~~10 SF or less~~	~~-1.26~~	~~-1.57~~
		~~100 SF or more~~	~~-1.09~~	~~-1.40~~
	~~Tall flat topped roofs h> 60'~~		~~Enclosed~~	~~Partially Enc.~~
	~~Flat <slope < 2:12 (10°) (Zone 1)~~			
	~~Negative~~	~~10 SF or less~~	~~-1.34~~	~~-1.66~~
		~~500 SF or more~~	~~-1.00~~	~~-1.32~~
~~3. Components and Cladding in areas of discontinuities – Roofs and overhangs~~	~~Roof Elements and slopes~~		~~Enclosed~~	~~Partially Enc.~~
	~~Gable or Hipped Configurations at Ridges, Eaves and Rakes (Zone 2)~~			
	~~Flat < Slope < 6:12 (27°)~~			
	~~Positive~~	~~10 SF or less~~	~~0.58~~	~~0.89~~
		~~100 SF or more~~	~~0.41~~	~~0.72~~
	~~Negative~~	~~10 SF or less~~	~~-1.68~~	~~-2.00~~
		~~100 SF or more~~	~~-1.17~~	~~-1.49~~
	~~Overhang for Slope Flat < Slope < 6:12 (27°)~~			

	~~Negative~~	~~10 SF or less~~	~~-1.87~~	
		~~100 SF or more~~	~~-1.87~~	
	~~6:12 (27°) < Slope < 12:12 (45°)~~		~~Enclosed~~	~~Partially Enc.~~
	~~Positive~~	~~10 SF or less~~	~~0.92~~	~~1.23~~
		~~100 SF or more~~	~~0.83~~	~~1.15~~
	~~Negative~~	~~10 SF or less~~	~~-1.17~~	~~-1.49~~
		~~100 SF or more~~	~~-1.00~~	~~-1.32~~
	~~Overhang for 6:12 (27°) < Slope < 12:12 (45°)~~			
	~~Negative~~	~~10 SF or less~~	~~-1.70~~	
		~~100 SF or more~~	~~-1.53~~	
	~~Monosloped Configurations at Ridges, Eaves and Rakes (Zone 2)~~			
	~~Flat < Slope < 7:12 (30°)~~			
	~~Positive~~	~~10 SF or less~~	~~0.49~~	~~0.81~~
		~~100 SF or more~~	~~0.41~~	~~0.72~~
	~~Negative~~	~~10 SF or less~~	~~-1.51~~	~~-1.83~~
		~~100 SF or more~~	~~-1.43~~	~~-1.74~~
	~~Tall flat topped roofs h> 60'~~		~~Enclosed~~	~~Partially Enc.~~
	~~Flat <slope < 2:12 (10°) (Zone 2)~~			
	~~Negative~~	~~10 SF or less~~	~~-2.11~~	~~-2.42~~
		~~500 SF or more~~	~~-1.51~~	~~-1.83~~
	~~Gable or Hipped Configurations at Corners (Zone 3)~~			
	~~Flat < Slope < 6:12 (27°)~~		~~Enclosed~~	~~Partially Enc.~~
	~~Positive~~	~~10 SF or less~~	~~0.58~~	~~0.89~~
		~~100 SF or more~~	~~0.41~~	~~0.72~~
	~~Negative~~	~~10 SF or less~~	~~-2.53~~	~~-2.85~~
		~~100 SF or more~~	~~-1.85~~	~~-2.17~~

	~~Overhang for Slope Flat < Slope < 6:12 (27°)~~			
	~~Negative~~	~~10 SF or less~~	~~-3.15~~	
		~~100 SF or more~~	~~-2.13~~	
	~~6:12 (27°) < Slope < 12:12 (45°)~~			
	~~Positive~~	~~10 SF or less~~	~~0.92~~	~~1.23~~
		~~100 SF or more~~	~~0.83~~	~~1.15~~
	~~Negative~~	~~10 SF or less~~	~~-1.17~~	~~-1.49~~
		~~100 SF or more~~	~~-1.00~~	~~-1.32~~
	~~Overhang for 6:12 (27°) < Slope < 12:12 (45°)~~		~~Enclosed~~	~~Partially Enc.~~
	~~Negative~~	~~10 SF or less~~	~~-1.70~~	
		~~100 SF or more~~	~~-1.53~~	
	~~Monosloped Configurations at corners (Zone 3)~~			
	~~Flat < Slope < 7:12 (30°)~~			
	~~Positive~~	~~10 SF or less~~	~~0.49~~	~~0.81~~
		~~100 SF or more~~	~~0.41~~	~~0.72~~
	~~Negative~~	~~10 SF or less~~	~~-2.62~~	~~-2.93~~
		~~100 SF or more~~	~~-1.85~~	~~-2.17~~
	~~Tall flat topped roofs h> 60'~~		~~Enclosed~~	~~Partially Enc.~~
	~~Flat <slope < 2:12 (10°) (Zone 3)~~			
	~~Negative~~	~~10 SF or less~~	~~-2.87~~	~~-3.19~~
		~~500 SF or more~~	~~-2.11~~	~~-2.42~~
~~4. Components and Cladding not in areas of discontinuity - Walls and parapets~~	~~Wall Elements: h ≤ 60' (Zone 4)~~		~~Enclosed~~	~~Partially Enc.~~
	~~Positive~~	~~10 SF or less~~	~~1.00~~	~~1.32~~
		~~500 SF or more~~	~~0.75~~	~~1.06~~
	~~Negative~~	~~10 SF or less~~	~~-1.09~~	~~-1.40~~
		~~500 SF or more~~	~~-0.83~~	~~-1.15~~

	~~Wall Elements: h > 60' (Zone 4)~~			
	~~Positive~~	~~20 SF or less~~	~~0.92~~	~~1.23~~
		~~500 SF or more~~	~~0.66~~	~~0.98~~
	~~Negative~~	~~20 SF or less~~	~~-0.92~~	~~-1.23~~
		~~500 SF or more~~	~~-0.75~~	~~-1.06~~
	~~Parapet Walls~~			
	~~Positive~~		~~2.87~~	~~3.19~~
	~~Negative~~		~~-1.68~~	~~-2.00~~
~~5. Components and Cladding in areas of discontinuity - Walls and parapets~~	~~Wall Elements: h ≤ 60' (Zone 5)~~		~~Enclosed~~	~~Partially Enc.~~
	~~Positive~~	~~10 SF or less~~	~~1.00~~	~~1.32~~
		~~500 SF or more~~	~~0.75~~	~~1.06~~
	~~Negative~~	~~10 SF or less~~	~~-1.34~~	~~-1.66~~
		~~500 SF or more~~	~~-0.83~~	~~-1.05~~
	~~Wall Elements: h > 60' (Zone 5)~~			
	~~Positive~~	~~20 SF or less~~	~~0.92~~	~~1.23~~
		~~500 SF or more~~	~~0.66~~	~~0.98~~
	~~Negative~~	~~20 SF or less~~	~~-1.68~~	~~-2.00~~
		~~500 SF or more~~	~~-1.00~~	~~-1.32~~
	~~Parapet Walls~~			
	~~Positive~~		~~3.64~~	~~3.95~~
	~~Negative~~		~~-2.45~~	~~-2.76~~

~~a. Linear interpolation between values in the table is acceptable.~~
~~b. For open buildings, multispan gable roofs, stepped roofs, sawtooth roofs, domed roofs, solid free standing walls amd solid signs apply ASCE 7.~~
~~c. Some Cnet values have been grouped together. Less conservative results may be obtained by applying ASCE 7.~~

...

~~**1609.6.3 Design Equations.** When using the Alternate All Heights Method, the Main Wind Force Resisting System (MWFRS), and Components and Cladding of every structure shall be designed to resist the effects of wind pressures on the building envelope in accordance with Equation (16-36).~~

$$\cancel{P_{net} = q_s K_z C_{net} [I K_{zt}] \qquad \text{(Equation 16-36)}}$$

~~Design wind forces for the MWFRS shall not be less than 10 lb/ft^2 (0.48 KN/m^2) multiplied by the area of the~~

~~*structure projected on a plane normal to the assumed wind direction. See ASCE Section 6.1.4 for criteria. Design net wind pressure for components and cladding shall not be less than 10 lb/ft^2 (0.48 KN/m^2) acting in either direction normal to the surface.*~~

~~***1609.6.4 Design Procedure.** The MWFRS and the components and cladding of every building or other structure shall be designed for the pressures calculated using Equation (16-36).*~~

~~***1609.6.4.1 Main Wind-Force-Resisting Systems.** The MWFRS shall be investigated for the torsional effects identified in ASCE 7 Figure 6-9.*~~

~~***1609.6.4.2 Determination of K_z and K_{zt}. Velocity Pressure Exposure Coefficient,** K_z shall be determined in accordance with ASCE 7 Section 6.5.6.6 and the Topographic Factor, K_{zt} shall be determined in accordance with ASCE 7 Section 6.5.7.*~~

~~*1. For the windward side of a structure, K_{zt} and K_z shall be based on height z. For leeward and side walls, and for windward and leeward roofs, K_{zt} and K_z shall be based on mean roof height h.*~~

~~***1609.6.4.3 Determination of Net Pressure Coefficients,** C_{net}. For the design of the Main Wind-Force-Resisting System and for Components and Cladding, the sum of the internal and external net pressure shall be based on the net pressure coefficient C_{net}.*~~

~~*1. The pressure coefficient, C_{net}, for walls and roofs shall be determined from Table 1609.6.2(2).*~~
~~*2. Where C_{net} may have more than one value, the more severe wind load combination shall be used for design.*~~

~~***1609.6.4.4 Application of Wind Pressures**. When using the Alternate All-Heights Method, wind pressures shall be applied simultaneously on, and in a direction normal to, all building envelope wall and roof surfaces.*~~

~~***1609.6.4.4.1 Components and Cladding.** Wind pressure for each component or cladding element is applied as follows using C_{net} values based on the effective wind area, A, contained within the zones in areas of discontinuity of width and/or length "a", "2a" or "4a" at: corners of roofs and walls; edge strips for ridges, rakes and eaves; or field areas on walls or roofs as indicated in Figures in Table 1609.6.2(2) in accordance with the following:*~~

~~*1. Calculated pressures at local discontinuities acting over specific edge strips or corner boundary areas.*~~
~~*2. Include "field" (zone 1, 2 or 4, as applicable) pressures applied to areas beyond the boundaries of the areas of discontinuity.*~~
~~*3. Where applicable, the calculated pressures at discontinuities (zones 2 or 3) shall be combined with design pressures that apply specifically on rakes or eave overhangs.*~~

1609.6 Alternate all-heights method. The alternate wind design provisions in this section are simplifications of the ASCE 7 Method 2—Analytical Procedure. **...**

1612.5 Flood hazard documentation. The following documentation shall be prepared and sealed by a registered design professional and submitted to the building official:

1. For construction in flood hazard areas not subject to high-velocity wave action:

   1.1. The elevation of the lowest floor, including the basement, as required by the lowest floor elevation inspection in Section ~~109.3.3~~ *1.9.3.3*, ~~*Appendix*~~ *Chapter 1, Division I*. **. . .**

2. For construction in flood hazard areas subject to high-velocity wave action:

   2.1. The elevation of the bottom of the lowest horizontal structural member as required by the lowest floor elevation inspection in Section ~~109.3.3~~ *1.9.3.3*, ~~*Appendix*~~ *Chapter 1, Division I*. **. . .**

1613.1 Scope. Every structure, and portion thereof,…

***1613.1.1 Scope. [SL]** For applications listed in…*

1613.1.2. State-owned buildings. *State-owned buildings, including those of the University of California, CSU and Judicial Council, shall not be constructed where any portion of the foundation would be within a mapped area of earthquake-induced liquefaction of landsliding or within 50 feet of a mapped fault rupture hazard as established by Section 1802.7*

Exception: *New buildings that would satisfy the requirements of existing building Sections 3415.4.1 and 3415.4.2 using BSC2.*

1613.3 Existing buildings. Additions, alterations, repairs, or change of occupancy of existing buildings shall be in accordance with Sections 3403.2.3 and 3406.4.

1613.3.1 Existing state buildings. *Additions, alterations, reparis, or change of occupancy category of existing buildings shall be in accordance with Chapter 34.*

1613.6.Alternatives to ASCE 7. The provisions of Section 1613.6 shall be permitted as alternatives to the relevant provisions of ASCE 7.

. . .

1613.6.3. Exceptions for nonstructural components. *Replace ~~items 4 and 5 of~~ ASCE 7 Section 13.1.3 by the following items.*

Exemptions. *The following nonstructural components are exempt from the requirements of this section:*

1. Furniture (except storage cabinets as noted in Table 13.5-1).

2. Temporary or moveable equipment.

3. Architectural components in Seismic Design Category B other than parapets supported by bearing walls or shear walls provided that the component importance factor, I_p, is equal to 1.0.

4. Mechanical and electrical components in Seismic Design Category B.

5. Mechanical and electrical components in Seismic Design Category C Provided that the component importance factor, Ip is equal to 1.0.

6.~~4~~. Mechanical and electrical components in Seismic Design Categories D, E or F where all of the following apply:

a. The component importance factor, Ip, is equal to 1.0;

b. The component is positively attached to the structure;

c. Flexible connections are provided between the component and associated ductwork, piping, and conduit; and either:

i. The component weighs 400 lb (1780 N) or less and has a center of mass located 4 ft. (1.22 m) or less above the adjacent floor level; or

ii. The component weighs 20 lb (89 N) or less, or, in the case of a distributed system, 5 lb/ft (73N/m) or less.

. . .

1613.6.9 Exceptions for nonstructural components. *Replace items 4 and 5 of ASCE 7 Section 13.1.4 by the following items.*

4. Mechanical and electrical components in Seismic Design Categories D, E or F where all of the following apply:

a. The component importance factor, Ip, is equal to 1.0;

b. The component is positively attached to the structure;
c. Flexible connections are provided between the component and associated ductwork, piping, and conduit; and either:
I The component weights 400 lb (1780 N) or less and has a center of mass located 4 ft. (1.22 m) or less above adjacent floor level.
Ii The component weights 20 lb (89 N) or less, or, in the case of a distributed system, 5 ib/ft (73N/m) or less.

Notation
Authority: Health and Safety Code §18928 & 18934.5
References: Health and Safety Code §§18928, 18928.1, & 18934.5

CHAPTERS 17
STRUCTURAL TESTS AND SPECIAL INSPECTIONS

Adopt and/or codify entire chapter unamended:

Adopting Agency	BSC	COMMENTS
Adopt Entire Chapter without amendments		
Adopt Entire Chapter as amended (amended sections listed below)	**X**	
Adopt Only those sections that are listed below		

AMENDMENTS:

1704.1.1 Statement of special inspections. The permit applicant shall submit a statement of special inspections prepared by the registered design professional in responsible charge in accordance with Section ~~106.1~~ *107.1*, ~~*Appendix*~~ *Chapter 1, Division II,* as a condition for permit issuance. This statement shall be in accordance with Section 1705. **. . .**

1711.1 General. In the absence of approved rules or other approved standards, the building official shall make, or cause to be made, the necessary tests and investigations; or the building official shall accept duly authenticated reports from approved agencies in respect to the quality and manner of use of new materials or assemblies as provided for in Section ~~104.11~~ *1.2.2*, ~~*Appendix*~~ *Chapter 1, Division I*. The cost of all tests and other investigations required under the provisions of this code shall be borne by the permit applicant.

Notation
Authority: Health and Safety Code §18928 & 18934.5
References: Health and Safety Code §§18928, 18928.1, & 18934.5

CHAPTERS 18
SOILS AND FOUNDATIONS

Adopt and/or codify entire chapter as amended below:

Adopting Agency	BSC	COMMENTS
Adopt Entire Chapter without amendments		
Adopt Entire Chapter as amended (amended sections	**X**	

listed below)		
Adopt Only those sections that are listed below		

AMENDMENTS:

1810.8.4.1 Seismic reinforcement. Where a structure is assigned to Seismic Design Category C, a permanent steel casing shall be provided from the top of the pile down 120 percent times the flexural length. The flexural length shall be determined in accordance with Section 1808.1. Where a structure is assigned to Seismic Design Category D, E or F, the pile shall be considered as an alternative system. In accordance with Section ~~104.11~~ *1.4.11*, ~~*Appendix*~~ *Chapter 1,Division I,* the alternative pile system design, supporting documentation and test data shall be submitted to the building official for review and approval.

Notation
Authority: Health and Safety Code §18928 & 18934.5
References: Health and Safety Code §§18928, 18928.1, & 18934.5

CHAPTERS 19
CONCRETE

Adopt and/or codify entire chapter unamended:

Adopting Agency	BSC	COMMENTS
Adopt Entire Chapter without amendments		
Adopt Entire Chapter as amended (amended sections listed below)	**X**	
Adopt Only those sections that are listed below		
1908.1.2	**X**	Add Item (h)
1908.1.3	**X**	Add new §21.4.5 and renumber remaining §§
1908.1.9.1	**X**	

AMENDMENTS:

1908.1.2 ACI 318, Section 21.1.1 Modify ACI 318 Section . . .

21.1.1.7 - Structural systems designated as part of the seismic-force-resisting system shall be restricted to those *permitted by ASCE 7. . . .*

. . .

(h) In Seismic Design Category D, E or F, concrete tilt-up wall panels which exceed the limitations of intermediate precast structural wall system shall satisfy 21.9 in addition to 21.4.2. and 21.4.3. . . .

1908.1.3 ACI 318, Section 21.4. Modify ACI, Section 21.4, by renumbering Section 21.4.3 to become 21.4.4 and adding new Sections 21.4.3, 21.4.5, ~~and~~ 21.4.6 and 21.4.7 to read as follows:

. . .

21.4.5 – Wall piers in Seismic Design Category D, E or F shall comply with Section 1908.1.4 of the Code.

21.4.~~5~~. 6 – Wall piers not designed as part of a moment frame in SDC C shall have transverse reinforcement designed to resist the shear forces determined from 21.3.3. Spacing of transverse reinforcement . . .

21.4.~~6~~ 7 – Wall segments with a horizontal length-to-thickness ratio less than 2.5 shall be designed as columns.

. . .

***1908.1.9.1* ACI 318, Section D3.3.** Modify ACI 318, *Section D3.3.1 and add Section D.3.3.7* to read as follows:

D3.3.1 – The provisions of Appendix D do not apply to the design of anchors in plastic hinge zones of concrete structures under earthquake forces *or anchors defined in Section D3.3.7.*
D3.3.7 – For anchors of wood sill plates with nominal diameters not exceeding 5/8 in. (15.9 mm) with embedment of 7 in. (178 mm) or greater, located a minimum of 2.5d from edge of concrete and 15d from end of concrete, design strength in shear parallel to edge of concrete shall be permitted to be determined in accordance with Section 2305.

CHAPTERS 21, 22

Adopt and/or codify entire chapter unamended:

Adopting Agency	BSC	COMMENTS
Adopt Entire Chapter without amendments	**X**	
Adopt Entire Chapter as amended (amended sections listed below)		
Adopt Only those sections that are listed below		

Notation
Authority: Health and Safety Code §18928 & 18934.5
References: Health and Safety Code §§18928, 18928.1, & 18934.5

CHAPTER 23
WOOD

Adopting Agency	BSC	COMMENTS
Adopt Entire Chapter without amendments		
Adopt Entire Chapter as amended (amended sections listed below)	**X**	
Adopt Only those sections that		

are listed below		
2305.1.2	**X**	

AMENDMENTS:

2503.1 Inspection. Lath and gypsum board shall be inspected in accordance with Section ~~109.3.5~~ *1.9.3.5*, ~~*Appendix*~~ *Chapter 1, Division I*.

…

2305.1.2 Sill plate anchor bolts. *As specified in Section 1908.1.9.1 modifications to ACI 318 Section D3.3, the design strength in shear parallel to the edge of a concrete slab or footing for sill plate anchor bolts not exceeding 5/8 in. (15.9 mm) nominal diameter, having a minimum embedment of 7 in. (178 mm), located a minimum of 15d from the end of the concrete, is permitted to be determined using the lateral design value for the bolt attaching a wood sill plate to concrete, as specified in AF& PA NDS Table 11E.*

Notation
Authority: Health and Safety Code §18928 & 18934.5
References: Health and Safety Code §§18928, 18928.1, & 18934.5

CHAPTERS 24, 25, 26

Adopt and/or codify entire chapter unamended:

Adopting Agency	BSC	COMMENTS
Adopt Entire Chapter without amendments	**X**	
Adopt Entire Chapter as amended (amended sections listed below)		
Adopt Only those sections that are listed below		

EDITORIAL AMENDMENT:

2503.1 Inspection. Lath and gypsum board shall be inspected in accordance with Section ~~109.3.5~~ *1.9.3.5*, ~~*Appendix*~~ *Chapter 1, Division I*.

Notation
Authority: Health and Safety Code §18928 & 18934.5
References: Health and Safety Code §§18928, 18928.1, & 18934.5

CHAPTER 27
ELECTRICAL

Adopting Agency	BSC	COMMENTS
Adopt Entire Chapter without amendments		
Adopt Entire Chapter as amended (amended sections listed below)		

Adopt Only those sections that are listed below		

Refer to California Electrical Code, Title 24, Part 3

Notation
Authority: Health and Safety Code §18928 & 18934.5
References: Health and Safety Code §§18928, 18928.1, & 18934.5

CHAPTER 28
MECHANICAL SYSTEMS

Adopting Agency	BSC	COMMENTS
Adopt Entire Chapter without amendments		
Adopt Entire Chapter as amended (amended sections listed below)		
Adopt Only those sections that are listed below		

Refer to California Mechanical Code, Title 24, Part 4

Notation
Authority: Health and Safety Code §18928 & 18934.5
References: Health and Safety Code §§18928, 18928.1, & 18934.5

CHAPTER 29
PLUMBING SYSTEMS

Adopting Agency	BSC	COMMENTS
Adopt Entire Chapter without amendments		
Adopt Entire Chapter as amended (amended sections listed below)		
Adopt Only those sections that are listed below		

Refer to California Plumbing Code, Title 24, Part 5

Notation
Authority: Health and Safety Code §18928 & 18934.5
References: Health and Safety Code §§18928, 18928.1, & 18934.5

CHAPTER 30
ELEVATORS AND CONVEYING SYSTEMS

Adopt and/or codify entire chapter unamended:

Adopting Agency	BSC	COMMENTS
Adopt Entire Chapter without amendments	**X**	
Adopt Entire Chapter as amended (amended sections listed below)		
Adopt Only those sections that are listed below		

Notation
Authority: Health and Safety Code §18928 & 18934.5
References: Health and Safety Code §§18928, 18928.1, & 18934.5

CHAPTER 31
SPECIAL CONSTRUCTION

Adopt and/or codify entire chapter as amended below:

Adopting Agency	BSC	COMMENTS
Adopt Entire Chapter without amendments		
Adopt Entire Chapter as amended (amended sections listed below)	**X**	
Adopt Only those sections that are listed below		
3109.4.4	**X**	Move existing amendment forward to the 2010 CBC

AMENDMENTS:

3109.4.4 Private swimming pools (statewide). *These regulations are subject to local government…*
3109.4.4.1 Definitions. *As used in this division, the following terms…*
3109.4.4.2 Construction permit; safety features required. *Commencing January 1, 2007, except as provided in Section 3109.4.4.5…*
3109.4.4.3 Enclosure; required characteristics. *An enclosure shall have all of the …*
3109.4.4.4 Agreements to build; notice of provisions. *Any person entering into an agreement…*
3109.4.4.5 Exempt facilities. *The requirements of this article shall not…*
3109.4.4.6 Application to facilities regulated by the Department of Social Services. *This division does not apply to any…*
3109.4.4.7 Modifications and interpretation of division. *Notwithstanding any other provision of law…*
3109.4.4.8 Construction requirements for building a pool or spa. *Whenever a building permit is issued…*

CHAPTER 31A
SYSTEMS FOR WINDOW CLEANING OR EXTERIOR BUILDING MAINTENANCE

See Title 8, California Code of Regulations, Division 1, Chapter 4, Subchapter 7, General Industry Safety Orders, Group 1, Articles 5 and 6.

Notation

Authority: Health and Safety Code §18928 & 18934.5
References: Health and Safety Code §§18928, 18928.1, & 18934.5

CHAPTER 32
ENCROACHMENTS INTO THE PUBLIC RIGHT-OF-WAY

Adopt and/or codify entire chapter unamended:

Adopting Agency	BSC	COMMENTS
Adopt Entire Chapter without amendments	**X**	
Adopt Entire Chapter as amended (amended sections listed below)		
Adopt Only those sections that are listed below		

Notation
Authority: Health and Safety Code §18928 & 18934.5
References: Health and Safety Code §§18928, 18928.1, & 18934.5

CHAPTER 33
SAFEGUARDS DURING CONSTRUCTION

Adopt and/or codify entire chapter unamended:

Adopting Agency	BSC	COMMENTS
Adopt Entire Chapter without amendments	**X**	
Adopt Entire Chapter as amended (amended sections listed below)		
Adopt Only those sections that are listed below		

Notation
Authority: Health and Safety Code §18928 & 18934.5
References: Health and Safety Code §§18928, 18928.1, & 18934.5

CHAPTER 34
EXISTING STRUCTURES

Adopt and/or codify entire chapter as amended below:

Adopting Agency	BSC	COMMENTS
Adopt Entire Chapter without amendments		
Adopt Entire Chapter as		

amended (amended sections listed below)		
Adopt Only those sections that are listed below	X	
3401	X	
3401.1.1	X	
3402	X	
3403	X	
3403.1 *Except.*	X	Add existing section *3403.2* from the *07 CBC* as exception to 3403.1
3403.2 *Except.*	X	
3404	X	
3404.1 *Except.*	X	Add existing section *3403.2* from the *07 CBC* as exception to 3404.1
3405	X	
3405.1 *Except.*	X	Add existing section *3403.2* from the *07 CBC* as exception to 3405.1
3406	X	
3408	X	
3416	X	Delete definition of "Dangerous Conditions", adopt model code definition in 3402
3417	X	Modify §§3417.2, 3417.12 and 3417.12.1
3418	X	
3419	X	
3420	X	

AMENDMENTS:

3401.6 Dangerous conditions. *Regardless of the extent of structural or nonstructural damage, the building code official shall have the authority to require the elimination of conditions deemed dangerous.*

SECTION 3403
ADDITIONS

3403.1 General. Additions to any building or structure shall comply with the requirements of this code for new construction. Alterations to the existing building or structure shall be made to ensure that the existing building or structure together with the *addition* are no less conforming with the provisions of this code than the existing building or structure was prior to the *addition*. An existing building together with its additions shall comply with the height and area provisions of Chapter 5.

> ***Exception:*** *(relocated from 2007 CBC Section 3403.2) For state-owned buildings, including those owned by the University of California and the California State University and the Judicial Council, the requirements of ~~Section 3403.2~~ Sections 3403.3 and 3403.4 are replaced by the requirements of Sections 3415 through 3420.*

SECTION 3404
ALTERATIONS

3404.1 General. Except as provided by Section 3401.4 or this section, alterations to any building or structure shall comply with the requirements of the code for new construction. Alterations shall be such that the existing building or structure is no less complying with the provisions of this code than the existing building or structure was prior to the alteration.

> **Exceptions:**
> 1. An existing stairway shall not be required to comply with the requirements of Section 1009 where the existing space and construction does not allow a reduction in pitch or slope.
> 2. Handrails otherwise required to comply with Section 1009.12 shall not be required to comply with the

requirements of Section 1012.6 regarding full extension of the handrails where such extensions would be hazardous due to plan configuration.

3. *(relocated from 2007 CBC Section 3403.2) For state-owned buildings, including those owned by the University of California and the California State University and the Judicial Council, the requirements of ~~Section 3403.2~~ Sections 3404.3 through 3404.5 are replaced by the requirements of Sections 3415 through 3420.*

SECTION 3405
REPAIRS

3405.1 General. Buildings and structures, and parts thereof, shall be repaired in compliance with Section 3401.2. Work on nondamaged components that is necessary for the required repair of damaged components shall be considered part of the repair and shall not be subject to the requirements for alterations in this chapter. Routine maintenance required by Section 3401.2, ordinary repairs exempt from *permit* in accordance with Section 105.2, and abatement of wear due to normal service conditions shall not be subject to the requirements for repairs in this section.

Exception: *(relocated from 2007 CBC Section 3403.2) For state-owned buildings, including those owned by the University of California and the California State University and the Judicial Council, the requirements of ~~Section 3403.2~~ Sections 3405.2 through 3405.4 are replaced by the requirements of Sections 3415 through 3420.*

3405.1.1 Dangerous conditions. Regardless of the extent of structural or nonstructural damage, the building code official shall have the authority to require the elimination of conditions deemed dangerous.

. . .

3416.1. *For the purposes of this chapter, certain terms are defined as follows:*

. . .

~~***DANGEROUS CONDITION*** *Any building or structure or any individual component with any of the structural conditions or defects described below shall be deemed dangerous:*~~

~~*1. The load action in a component due to all factored dead and live loads is more than one and one-third the nominal strength permitted by this code. Where vertical load bearing walls, columns, or other vertical load bearing elements or components list, lean, or are otherwise laterally deformed, the resulting vertical load times lateral deformation (P-Delta) effect shall be considered in the evaluation of the load action.*~~

~~*2. Any portion, structural or non-structural component of the building or structure, or any appurtenance within the structure damaged to the extent that it could potentially fail, detach, or dislodge, or collapse under normal operational conditions or loading and thereby cause a health and safety hazard.*~~

~~*3. Any portion of a building, structural or non-structural component, appurtenance, or ornamentation on the exterior thereof with insufficient strength or stability, or attachment to resist lateral loading equal to two-thirds of that specified in Section 3417.*~~

~~*4. The building, or any portion thereof, is likely to collapse partially or completely due to damages caused by fire, earthquake, wind, or flood; or any other similar cause.*~~

. . .

3417.2 Existing Conditions*. The existing condition and properties of the entire structure must be determined and documented by thorough inspection of the structure and site, review of all available related construction documents, review of geotechnical and engineering geologic reports, and performance of necessary testing and investigations. . . .*

These requirements shall be met following the data collection requirements of ASCE 41 Section 2.2 and shall be implemented as follows:

1. For state-owned buildings, the ~~"Usual" level as defined in~~ requirements shall be met following the data collection requirements of ASCE 41, Section 2.2.~~6.2~~.

. . .

3417.12 Voluntary modifications to the lateral-force resisting system. *Where modifications of existing structural components and additions of new structural components are initiated for the purpose of improving the lateral-force resisting strength or stiffness of an existing structure and they are not required by other sections of this code, then they are permitted to be designed to meet an approved seismic performance criteria provided that an engineering analysis is submitted that shows:*

. . .

5. A dangerous condition ~~as defined in Section 3416 does not exist~~ is not created.

3417.12.1 State-owned buildings. *Voluntary modifications to lateral-force-resisting systems conducted in accordance with Appendix A of the IEBC and the referenced standards of this code shall be permitted.*

3417.12.1.1 Design documents. *When Section 3417.12 is the basis for structural modifications, the approved design documents must clearly state the scope of the seismic modifications and the acceptance criteria for the design. The approved design documents must clearly have the phrase "The seismic requirements of Chapter 34 for existing buildings have not been ~~met by~~ checked to determine if these structural modifications meet CBC requirements; the modifications proposed are to a ~~lesser~~ different seismic performance standard that would be required in Section 3417 if they were not voluntary as allowed in Section 3417.12."*

Notation
Authority: Health and Safety Code §18928 & 18934.5
References: Health and Safety Code §§18928, 18928.1, & 18934.5

CHAPTER 35
REFERENCED STANDARDS

Adopt and/or codify entire chapter as amended below:

Adopting Agency	BSC	COMMENTS
Adopt Entire Chapter without amendments	**X**	
Adopt Entire Chapter as amended (amended sections listed below)		
Adopt Only those sections that are listed below		

This chapter lists the standards that are referenced in various sections of this document. The standards are listed herein by the promulgating agency of the standard, the standard identification, the effective date and title, and the section or sections of this document that reference the standard. The application of the referenced standards shall be as specified in Section ~~102.4~~ *1.2.4*, ~~*Appendix*~~ *Chapter 1, Division I*.

. . .

Notation:
Authority: Health and Safety Code §18928 & 18934.5
References: Health and Safety Code §§18928, 18928.1, & 18934.5