

ORDINANCE NO. 1237

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF VERNON AMENDING VARIOUS SECTIONS OF CHAPTERS 7, FIRE REGULATIONS AND 24, BUILDING AND CONSTRUCTION, OF THE VERNON MUNICIPAL CODE, ALONG WITH AMENDMENTS, ADDITIONS AND DELETIONS AND ADOPTING BY REFERENCE THE FOLLOWING CODES: (1) THE 2016 CALIFORNIA FIRE CODE, 24 CCR PART 9; (2) THE 2016 CALIFORNIA BUILDING CODE, 24 CCR PART 2; (3) THE 2016 CALIFORNIA ELECTRICAL CODE, 24 CCR PART 3; (4) THE 2006 EDITION OF THE INTERNATIONAL CODE COUNCIL ELECTRICAL CODE ADMINISTRATIVE PROVISIONS; (5) THE 2016 CALIFORNIA MECHANICAL CODE, 24 CCR PART 4; (6) THE 2016 CALIFORNIA PLUMBING CODE, 24 CCR PART 5; (7) THE 2016 CALIFORNIA EXISTING BUILDING CODE, 24 CCR PART 10; (8) THE 2015 INTERNATIONAL EXISTING BUILDING CODE; (9) THE 2016 CALIFORNIA RESIDENTIAL CODE, 24 CCR PART 2.5; (10) THE 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE ALSO CALLED THE CALGREEN CODE, 24 CCR PART 11, AND; (11) THE 2016 CALIFORNIA ENERGY CODE, 24 CCR PART 6; REPEALING ALL PRIOR ORDINANCES AND PARTS OF ORDINANCES IN CONFLICT THEREWITH

WHEREAS, the City of Vernon by Ordinance No. 1217 adopted the following codes with certain modifications and changes: the 2013 California Fire Code, the 2013 California Building Code, the 2013 California Electrical Code, the 2006 Edition of the International Code Council Electrical Code Administrative Provisions, the 2013 California Mechanical Code, the 2013 California Plumbing Code, the 2013 California Existing Building Code, the 2012 International Existing Building Code, the 2013 California Residential Code, the 2013 California Green Building Standards Code, also called the CALGreen Code, and the 2013 California Energy Code; and

WHEREAS, the City codified said Ordinance in Chapters 7 and 24 of the Vernon Municipal Code; and

WHEREAS, every three years, the California Building Standards

Commission ("Commission") adopts the California Building Standards Code ("CBSC") Title 24 of the California Code of Regulations, which establish uniform standards for all occupancies in the state for the construction and maintenance of buildings, plumbing systems, mechanical systems, electrical systems and fire and life safety systems; and

WHEREAS, since the passage of Ordinance No. 1217, the Commission adopted a new edition of the CBSC which shall apply to all occupancies and become effective on January 1, 2017; and

WHEREAS, California Health and Safety Code Sections 17958, 17958.5 and 17958.7, allow certain amendments to the CBSC to be made by a local government provided express findings are made to show that such modifications or changes are reasonably necessary because of local climatic, geological or topographical conditions; and

WHEREAS, the amendments, deletions and additions to the CBSC set forth in this Ordinance are based upon the express findings set forth under a separate resolution; and

WHEREAS, pursuant to Sections 50022.2 et seq. of the California Government Code, which authorizes the City to adopt the CBSC and other uniform and model codes, the City intends to adopt with amendments: (a) the 2006 Edition of the International Code Council Electrical Code Administrative Provisions, (b) Chapters A2 and A5 and repair criteria of the 2015 International Existing Building Code, published by the International Code Council, as the minimum seismic retrofit requirements for buildings of tilt-up and concrete frame construction types for those property owners who voluntarily propose to retrofit their buildings, and (c) the Uniform Code for Abatement of Dangerous Buildings, 1997 Edition, published by the International Conference of Building Officials which code was previously adopted in

Ordinance No. 1073, remains unchanged, and shall be the standard for the repair of structures damaged during a disaster event; and

WHEREAS, the administrative amendments to the CBSC provide for a Board of Appeals and authorize the City Council to determine the membership of said Board of Appeals; and

WHEREAS, pursuant to the California Government Code Section 50022.3, the City Council on November 15, 2016, gave a first reading to this Ordinance and the titles of said codes to be adopted and standards, and a duly noticed public hearing was held on December 6, 2016, for the purpose of considering the adoption of said Codes.

THE CITY COUNCIL OF THE CITY OF VERNON HEREBY ORDAINS:

SECTION 1: The City Council of the City of Vernon hereby finds and determines that all of the foregoing recitals are true and correct.

SECTION 2: 2016 California Fire Code Adopted. The City of Vernon hereby adopts by reference the 2016 California Fire Code as published by the California Building Standards Commission, California Code of Regulations, Title 24, Part 9, including appendices A, B, BB, D, and H and all standards contained therein, including all applicable tables, indices, addenda and footnotes. Except as otherwise provided herein, or as later amended, said California Fire Code is hereby referred to and by such reference is incorporated herein as if fully set forth.

SECTION 3: 2016 California Building Code Adopted. The City of Vernon hereby adopts by reference the 2016 California Building Code, as published by the California Building Standards Commission, California Code of Regulations, Title 24, Part 2, Volumes 1 and 2, Appendices H and J, and all standards contained therein, including all

applicable tables, indices, addenda and footnotes. Except as otherwise provided herein, or as later amended, said California Building Code is hereby referred to and by such reference is incorporated herein as if fully set forth.

SECTION 4: 2016 California Residential Code Adopted. The City of Vernon hereby adopts by reference the 2016 California Residential Code and Appendix V thereof, as published by the California Building Standards Commission, California Code of Regulations, Title 24, Part 2.5, including all of its tables, indices, appendices and footnotes. Except as otherwise provided herein, or as later amended, said California Residential Code is hereby referred to and by such reference is incorporated herein as if fully set forth.

SECTION 5: 2016 California Electrical Code Adopted. The City of Vernon hereby adopts by reference the 2016 California Electrical Code, as published by the California Building Standards Commission, California Code of Regulations, Title 24, Part 3, including all of its tables, indices, appendices, addenda and footnotes. Except as otherwise provided herein, or as later amended, said California Electrical Code is hereby referred to and by such reference is incorporated herein as if fully set forth.

SECTION 6: 2006 International Code Council Electrical Code Administrative Provisions Adopted. The City of Vernon hereby adopts by reference the 2006 International Code Council Electrical Code Administrative Provisions, as published by the International Code Council Inc., including all of its tables, indices, appendices, addenda and footnotes. Except as otherwise provided herein or later amended, said International Code Council Electrical Code Administrative Provisions is hereby referred to and by such reference is incorporated

herein as if fully set forth.

SECTION 7: 2016 California Plumbing Code Adopted. The City of Vernon hereby adopts by reference the 2016 California Plumbing Code, as published by the California Building Standards Commission, California Code of Regulations, Title 24, Part 5, including all of its tables, indices, appendices, addenda and footnotes. Except as otherwise provided herein, or as later amended, said California Plumbing Code is hereby referred to and by such reference is incorporated herein as if fully set forth.

SECTION 8: 2016 California Mechanical Code Adopted. The City of Vernon hereby adopts by reference the 2016 California Mechanical Code, as published by the California Building Standards Commission, California Code of Regulations, Title 24, Part 4, including all of its tables, indices, appendices, addenda and footnotes. Except as otherwise provided herein, or as later amended, said California Mechanical Code is hereby referred to and by such reference is incorporated herein as if fully set forth.

SECTION 9: 2016 California Existing Building Code Adopted. The City of Vernon hereby adopts by reference Appendix Chapter A1 of the 2016 California Existing Building Code, as published by the California Building Standards Commission, California Code of Regulations, Title 24, Part 10, including all tables, indices, appendices, addenda and footnotes contained therein. Except as otherwise provided herein, or as later amended, said California Existing Building Code is hereby referred to and by such reference is incorporated herein as if fully set forth.

SECTION 10: 2015 International Existing Building Code Adopted. The City of Vernon hereby adopts by reference the 2015

International Existing Building Code, as published by the International Code Council, Inc., including all of its tables, indices, appendices, addenda and footnotes. Except as otherwise provided herein, or as later amended, said 2015 International Existing Building Code, is hereby referred to and by such reference is incorporated herein as if fully set forth.

SECTION 11: 2016 California Green Building Standards Code Adopted. The City of Vernon hereby adopts by reference the 2016 California Green Building Standards Code, also known as CALGreen Code, as published by the California Building Standards Commission, California Code of Regulations, Title 24, Part 11, including applicable tables, indices, appendices, addenda and footnotes. Except as otherwise provided herein, or as later amended, said California Green Building Standards Code is hereby referred to and by such reference is incorporated herein as if fully set forth. The voluntary provisions in Appendix Chapter A-4 and Chapter A-5 are not adopted as mandatory compliance features at this time.

SECTION 12: 2016 California Energy Code Adopted. The City of Vernon hereby adopts by reference the 2016 California Energy Code, as published by the California Building Standards Commission, California Code of Regulations, Title 24, Part 6, including all of its tables, indices, appendices, addenda and footnotes. Except as otherwise provided herein, or as later amended, said California Energy Code is hereby referred to and by such reference is incorporated herein as if fully set forth.

SECTION 13: Section 7.10 of Chapter 7 of the Vernon Municipal Code is hereby amended to read as follows:

Sec. 7.10. 2016 California Fire Code, adopted.

The City of Vernon hereby adopts by reference the 2016 California Fire Code as published by the California Building Standards Commission, California Code of Regulations, Title 24, Part 9, including appendices A, B, BB, D, and H and all standards contained therein, including all applicable tables, indices, addenda and footnotes. Except as otherwise provided herein, or as later amended, said California Fire Code is hereby referred to and by such reference is incorporated herein as if fully set forth and are hereby adopted by reference as the Fire Code of the City of Vernon.

SECTION 14: Section 7.12 of Chapter 7 of the Vernon Municipal Code is hereby amended to read as follows:

Sec. 7.12. Amendments, additions, and deletions.

The 2016 California Fire Code is hereby amended as follows:

(a) Section 104.7.2, technical assistance, of the 2016 Edition of the California Fire Code is hereby amended to add the following sentence to the end of the paragraph to read as follows:

When there is a fire, explosion, hazardous materials incident, or other potential life or serious property threatening situation, the fire code official can request the owner, occupant, or operator to hire a private fire protection or hazardous materials investigator, acceptable to the fire code official and at the expense of the owner or operator, to provide a full report of the incident, including, without limitation, such matters as origin, cause, circumstances or proposed solutions to the problem.

(b) Section 104.12 is hereby added to Chapter 1 of the 2016 Edition of the California Fire Code to read as follows:

104.12 False alarms. The fire code official is authorized to

assess a service charge, as set forth by resolution, against the person owning or responsible for an alarm system when a fire department response occurs as a result of the third false alarm at the same address or location within any twelve month period, and for each subsequent false alarm thereafter, or against any person who intentionally, or in violation of the law reports, or causes to be reported, a false alarm to any department of the City of Vernon that an emergency exists requiring immediate or emergency response by the City of Vernon Fire Department.

(c) Section 104.13 is hereby added to Chapter 1 of the 2016 Edition of the California Fire Code to read as follows:

104.13 Vehicle/trailer creating hazard. Whenever it is determined by a fire code official or his representative that an unattended or attended vehicle/trailer parked or stopped upon any public street, road, alley, right-of-way, or upon private property, creates an immediate danger or fire hazard to itself, other vehicles, persons, or surrounding property, the fire code official shall request the local law enforcement agency to cause the removal of the vehicle/trailer to a safe location, and the local law enforcement agency shall cause the removal at the expense of the registered owner of the vehicle/trailer, and a notice of the removal shall be given to the registered owner as soon as feasible.

(d) Section 104.14 is hereby added to Chapter 1 of the 2016 Edition of the California Fire Code to read as follows:

104.14 Outside obstructions. No person shall park or place any material or vehicle in any established exit way, driveway, gateway, or alleyway between buildings that would hamper the ingress of fire equipment in case of a fire, explosion, hazardous materials incident,

or other potential life or serious property threatening situation. When in the opinion of the fire code official or his representative, any driveway, gateway, or alleyway between buildings is so obstructed by objects, materials, or vehicles as to impede the ingress or egress of said way, it shall be removed immediately upon order of the fire code official or his representative. When such obstruction is a vehicle, it may be removed or impounded at the owner's expense and as prescribed by law.

(e) Section 104.15 is hereby added to Chapter 1 of the 2016 Edition of the California Fire Code to read as follows:

104.15 Fire safety officer. When in the opinion of the fire code official, it is necessary for the preservation of life and property, due to the hazardous nature of an event, production, operation, or function, the fire code official shall require the owner, agent, production company, or lessee to employ or cause the employment of one or more fire department safety officers to be on duty at such place during such activity.

(f) Section 105.1.7 is hereby added to Chapter 1 of the 2016 Edition of the California Fire Code to read as follows:

105.1.7 Investigation fees; work without a permit. Whenever any work, operation or action for which a permit is required by this code has been commenced without first obtaining said permit, an investigation shall be made before a permit may be issued for such work. An investigation fee, in addition to the permit fee, shall be collected whether or not a permit is then subsequently issued. The investigation fee shall be double the amount of the permit fee set forth in the fee schedule. The payment of such investigation fee shall not exempt any person from compliance with all other provisions of this

code, nor from any penalty prescribed by law.

(g) Section 105.1.1 is hereby added to Chapter 1 of the 2016 Edition of the California Fire Code to read as follows:

105.1.1 Permits required. Permits required by this code shall be obtained from the fire code official. Issued permits shall be conspicuously displayed on the premises designated therein at all times and shall be readily available for inspection by code officials. Permit fees shall be as set forth in a fee schedule adopted by resolution by the City Council.

(h) Section 105.6.26 of the 2016 Edition of the California Fire Code is hereby amended to read as follows:

105.6.26 Lumber yards, woodworking plants, and pallet storage. A permit is required for storage or processing of lumber exceeding 100,000 board feet (8,333ft³) (236m³), or outside pallet storage in excess of 240 units and inside storage in excess of 64 units.

(i) Section 105.6.50 is hereby added to Chapter 1 of the 2016 Edition of the California Fire Code to read as follows:

105.6.50 General use permit. In addition to the permits required by Section 105.6, a general use permit shall be obtained from the fire code official for any activity or operation not specifically addressed in this article, which in the judgment of the fire code official, is possible or likely to produce conditions hazardous to life or property.

(j) Chapter 1, Section 105.7.19 is hereby added to Chapter 1 of the 2016 Edition of the California Fire Code to read as follows:

105.7.19 High-piled storage. A construction permit is required for installation or modification of high-piled combustible

storage in racks. When using any building or portion thereof exceeding twenty-five hundred (2,500) square feet for high-piled combustible storage in racks, a floor plan showing the dimensions and location of the rack system shall be submitted with the application for such permits.

(k) Section 105.8 is hereby added to Chapter 1 of the 2016 Edition of the California Fire Code to read as follows:

105.8 Responsibility of permittee. Fire permits shall be presumed to incorporate the provision that the applicant, the applicant's agent, employees or contractors shall carry out the proposed work in accordance with the approved plans and with all requirements of this code and any other laws or regulations applicable thereto, whether specified or not. No approval shall relieve or exonerate any person from the responsibility of complying with the provisions and intent of this code.

(l) Section 113.6 is hereby added to Chapter 1 of the 2016 Edition of the California Fire Code to read as follows:

113.6 Fees for services, establishment; review. The fire code official is authorized to collect fees for services established or modified by resolution of the City Council. The fire code official shall review fees charged for such services at least annually and shall, with approval of the City Administrator, recommend changes to the council when costs for such services make it appropriate.

(m) Section 113.7 is hereby added to Chapter 1 of the 2016 Edition of the California Fire Code to read as follows:

113.7 Operational permit fees. The fee set forth and established for the particular activity by a resolution of the City Council shall accompany all operational permits required pursuant to

the provisions of this code.

(n) Section 113.8 is hereby added to Chapter 1 of the 2016 Edition of the California Fire Code to read as follows:

113.8 Construction permit fees. Construction permit fees shall be paid at the time of the permit issuance. In addition to the permit fee, the applicant shall pay a plan check fee. The fee set forth and established for the particular activity by a resolution of the City Council shall accompany all construction permits required pursuant to the provisions of this code.

(o) Section 113.9 is hereby added to Chapter 1 of the 2016 Edition of the California Fire Code to read as follows:

113.9 Re-inspection fee. Whenever an inspection is scheduled under Section 105.2.2 and the permittee is not ready for inspection and does not inform the fire code official or his delegate at least 2 hours prior to the scheduled inspection, a re-inspection fee may be assessed.

(p) Section 114 is hereby added to Chapter 1 of the 2016 Edition of the California Fire Code to read as follows:

SECTION 114 - RESPONSIBILITY

114.1 Responsibility for costs. Persons who personally or through another, willingly, negligently, or in violation of law set a fire, allow a fire to be set, allow a fire kindled or attended by them to escape from their control, allow any hazardous material to escape from their control, neglect to properly comply with any written notice of the fire chief, or willfully or negligently allow the continuation of a violation of this code and amendments thereto, are liable for the direct and indirect expenses of fighting the fire, any investigation, or for direct and indirect expenses incurred during a hazardous materials incident. Such expenses shall be a charge against that

person. Such charge shall constitute a debt of such person, and is collectible by the City in the same manner as in the case of an obligation under a contract, expressed or implied and a lien may be attached to the involved property.

(q) The definitions of "awning," "false alarm," "fire chief," "fire code official," "fire safety officer," and "safety container" are hereby added or amended to Section 202 of Chapter 2 of the 2016 Edition of the California Fire Code in alphabetical order to read as follows:

AWNING. An architectural projection that provides weather protection, identity, or decoration and is wholly supported by the building to which it is attached. An awning is comprised of a lightweight frame structure over which a covering is attached.

FALSE ALARM. The willful and knowing initiation or transmission of a signal, message or other notification of an event of fire when no such danger exists, or the activation of any fire alarm system due to malfunction, mechanical or electrical defect, improper operation or procedure by any person, or a false oral or written report to any department of the City of Vernon that an emergency exists requiring immediate or emergency response by the Vernon Fire Department.

FIRE CHIEF. The chief officer of the fire department serving the jurisdiction or his/her designee.

FIRE CODE OFFICIAL. The fire chief or other member of the fire service appointed by the fire chief charged with the administration and enforcement of this code.

FIRE SAFETY OFFICER. A sworn member of the fire department serving the jurisdiction assigned to preserve life and property at a location, due to the hazardous nature of the activity of an event, production,

operation, or function.

SAFETY CONTAINER. An approved container of not over 5 gallons capacity, having a self-closing lid and spout cover.

(r) Section 304.1.1.1 of the 2016 Edition of the California Fire Code is hereby added to read as follows:

304.1.1.1 Waste material near photovoltaic array system.

Accumulation of waste material shall not be permitted underneath nor within 10 feet from a mounted photovoltaic array system.

(s) Section 311.2.2 Exceptions 1 and 2, of the 2016 Edition of the California Fire Code are hereby deleted.

(t) Section 312.2 of the 2016 Edition of the California Fire Code is hereby amended to read as follows:

312.2 Guard posts. Guard posts shall comply with all of the following requirements:

1. Constructed of steel not less than 8 inches (204mm) in diameter and concrete filled.
2. Spaced no more than 4 feet (1219mm) between posts on center.
3. Set not less than 4 feet (1219mm) deep in a concrete footing of not less than 18 inches (457.2 mm) in diameter.
4. Set with the top of the posts not less than 4 feet (1219mm) above ground.
5. Located not less than 3 feet (914 mm) from the protected object.
6. Posts shall be painted safety yellow.

(u) Section 315.4.3 is hereby added to Chapter 3 of the 2016 Edition of the California Fire Code to read as follows:

315.4.3 Pallet storage height and total accumulation for storage. Pallet storage in the open shall not exceed 15 feet (4,572 mm) in height and a total aggregate content not exceeding 6,750 cubic feet. Aisle separation of 15 feet (4,572 mm) is required before the next pile or stack is created. Storage of pallets in excess of 240 pallets requires a permit per Sec. 105.6.25.

(v) Section 315.4.4 is hereby added to Chapter 3 of the 2016 Edition of the California Fire Code to read as follows:

315.4.4 Pallets. All pallets must be stacked so that there is visibility through the stacks to the adjacent aisles, or so organized to assure that no temporary living facilities or places of refuge are hidden from view. Pallets shall be stacked or piled with due regard to the stability of piles, and in no case higher than 15 feet (4,572 mm).

(w) Section 315.4.4.1 is hereby added to Chapter 3 of the 2016 Edition of the California Fire Code to read as follows:

315.4.4.1 Clearance around pallets. Aisles between and around open pallet stacks shall be at least 15 feet (4,572 mm) in width and maintained free from accumulated rubbish, equipment, or other articles or materials.

(x) Chapter 3, Section 315.4.4.2 is hereby added to Chapter 3 of the 2016 Edition of the California Fire Code to read as follows:

315.4.4.2 Pallet storage next to structure/awning. When pallets are stored near a structure/awning, the height of the storage shall be restricted to no higher than the structure/awning and cannot exceed the height of the structure/awning, or 15 feet (4,572 mm), whichever is less.

(y) Section 503.2.1 of the 2016 Edition of the California Fire Code is hereby amended to read as follows:

503.2.1. Dimensions. Fire apparatus access roads shall have an unobstructed width of not less than 27 feet (8,229 mm) and an unobstructed vertical clearance of not less than 15 feet (4,472 mm).

(z) Section 505.1 of the 2016 Edition of the California Fire Code is hereby amended to read as follows:

505.1 Address identification. New and existing buildings shall have approved address numbers, building numbers or approved building identification placed in a position that is plainly legible and visible from the street or road fronting the property. These numbers shall contrast with their background. Where required by the fire code official, address numbers shall be provided in additional approved locations to facilitate emergency response. Address numbers shall be a minimum of 12 inches high with a minimum width of 2 inches. Where access is by means of a private road and the building cannot be viewed from the public way, a monument, pole or other sign or means shall be used to identify the structure. Address numbers shall be maintained.

(aa) Section 507.5 of the 2016 Edition of the California Fire Code is hereby amended to read as follows:

507.5. Fire hydrant systems. When any portion of the facility or building protected is in excess of 150 feet from a water supply on a public street, as measured by an approved route around the exterior of the facility or building, on-site fire hydrants and mains capable of supplying the required fire flow shall be provided when required by the fire code official.

(bb) Section 507.5.5 of the 2016 Edition of the California Fire Code is hereby amended to read as follows:

507.5.5. Clear space around hydrants. Clear space of 31 feet

(9448.8 mm) in front of, 4 feet (914 mm) in rear of and 10 feet (3048 mm) on both sides shall be maintained around each onsite hydrant.

(cc) Section 901.4.7 is hereby added to Chapter 9 of the 2016 Edition of the California Fire Code read as follows:

901.4.7 Protection of fire protection systems and equipment.

Fire protection systems and equipment subject to possible vehicular damage shall be adequately protected with guard posts in accordance with Section 312 Vehicle Impact Protection, and modifications adopted under this code.

(dd) Section 2404.2 of the 2016 Edition of the California Fire Code is hereby amended to read as follows:

2404.2. Location of spray-finishing operations. All inside or outside spray-finishing operations shall be conducted in an approved spray booth constructed in accordance with Section 2404.

(ee) Section 5601.1 of the 2016 Edition of the California Fire Code is hereby amended to read as follows:

5601.1. Prohibited and limited acts. Explosive materials shall not be manufactured, tested or stored within the limits of the City of Vernon.

(ff) Section 5704.2.9.6.1 of the 2016 Edition of the California Fire Code is hereby amended to read as follows:

5704.2.9.6.1. Locations where above-ground tanks are prohibited. Storage of Class I and Class II liquids in above ground tanks outside of buildings within the City of Vernon and in areas 1,000 feet (304,800 mm) or more from the outside boundary of a kindergarten through 12th grade public school shall be in approved containers not exceeding 10,000 gallons in size. In areas of a lot or parcel within 1,000 feet (304,800 mm) of the outside boundary of said school, the

only Class I or Class II liquids approved for storage in above ground tanks is diesel fuel which shall be in approved containers and shall be limited to either two (2) 1,000 gallon tanks or one (1) 2,000 gallon tank.

(gg) Section 6101.4 is hereby added to Chapter 61 of the 2016 Edition of the California Fire Code to read as follows:

6101.4 Inside storage or use. No LP-gases of any type or mixture shall be permitted in any occupancy either for sale, use or storage without approval of the fire code official.

(hh) Section 6103.2.2.1 is hereby added to Chapter 61 of the 2016 Edition of the California Fire Code to read as follows:

6103.2.2.1 Portable containers on motorized equipment. The use of portable containers of LP-gas as motorized equipment fuel in occupancies is limited as follows: LP-gas fuel tanks on motorized equipment are limited to two per vehicle with a combined capacity not to exceed 50 pounds. Refilling of tanks shall not be permitted within the occupancy and shall be permitted only in approved locations determined by the fire code official.

(ii) Section 6104.1 of the 2016 Edition of the California Fire Code is hereby amended to read as follows:

6104.1. Storage of liquefied petroleum gases. Storage and transportation of LP-gas and the installation and maintenance of pertinent equipment shall be in accordance with NFPA 58 and shall be subject to the approval of the fire code official. Storage is permitted within the limits of the City of Vernon except within 1,000 feet (304,800 mm) of a kindergarten through 12th grade public school.

Exception: Storage of LP-gas not exceeding 2,000 gallons per parcel in approved containers is permitted in all areas within the

limits of the City of Vernon.

(jj) Section 6104.3.3 is hereby added to Chapter 61 of the 2016 Edition of the California Fire Code to read as follows:

6104.3.3 Tank orientation. Unless special protection is provided and approved by the fire code official, containers of LP-gas shall be oriented so that their longitudinal axes do not point toward other LP-gas containers, vital process equipment, control rooms, loading stations, flammable liquid storage tanks or required fire access roads.

(kk) Table B105.2 of Appendix B of the 2016 Edition of the California Fire Code is hereby amended to read as follows:

**TABLE B105.2
REQUIRED FIRE-FLOW FOR BUILDINGS OTHER THAN ONE- AND TWO-FAMILY DWELLINGS,
GROUP R-3 AND R-4 BUILDINGS AND TOWNHOUSES**

Automatic Sprinkler System (Design Standard)	Minimum Fire-Flow (gallons per minute)	Flow Duration (hours)
No automatic sprinkler system	Value in Table B105.1(2)	Duration in Table B105.1(2)
Section 903.3.1.1 of the California Fire Code	50% of the value in Table B105.1(2) ^a	Duration in Table B105.1(2) at the reduced flow rate
Section 903.3.1.2 of the California Fire Code	50% of the value in Table B105.1(2) ^a	Duration in Table B105.1(2) at the reduced flow rate

For SI: 1 gallon per minute = 3.785 L/m.

a. The reduced fire-flow shall be not less than 1,500 gallons per minute.

(ll) Appendix C, of the 2016 Edition of the California Fire Code is hereby deleted.

(mm) Section D103.1 of Appendix D of the 2016 Edition of the California Fire Code is hereby amended to read as follows:

D103.1. Access road. The dimension of the fire access road turnarounds shall be in accordance with City of Vernon standards.

SECTION 15: Section 7.11 of Chapter 7 of the Vernon Municipal Code is hereby amended to read as follows:

(a) Whenever the word "jurisdiction" is used in the California Fire Code, it shall be held to mean the City.

(b) Whenever the term "corporation counsel" is used in the California Fire Code, it shall be held to mean the attorney for the City.

SECTION 16: Section 7.12-1 of Chapter 7 of the Vernon Municipal Code is hereby amended to read as follows:

Sec. 7.12-1. Enactment of penalty sections. All offenses set forth in this Article II shall be enforced pursuant to this Ordinance and section 1.8-1 of the Vernon Municipal Code.

SECTION 17: Section 7.13 of Chapter 7 of the Vernon Municipal Code is hereby amended to read as follows:

Sec. 7.13. Application for permit and issuance. All applications for permits to construct as required under the provisions of the California Fire Code shall be accompanied by plan check and permit fees established in a fee schedule adopted by the city council.

(a) To obtain a permit, the applicant shall first file an application therefor in writing on a form furnished by the director of public works for that purpose.

(b) Plans, engineering calculations, diagrams and other data shall be submitted in a minimum of four sets with each application for a permit. The director of public works may require plans and calculations to be prepared and designed by an engineer licensed by the State to practice as such.

(c) Permit issuance shall be in accordance with the provisions of the California Building Code as adopted and may be amended by the City Council of the City of Vernon.

SECTION 18: Section 24.10 of Article II of Chapter 24,

Building and Construction, of the Code of the City of Vernon is hereby amended to read as follows:

Sec. 24.10. 2016 California Building Code, adopted. The City of Vernon hereby adopts by reference the 2016 California Building Code as published by the California Building Standards Commission, California Code of Regulations, Title 24, Part 2. Volumes 1 and 2, and Appendices H and J, and all standards contained therein, including all applicable tables, indices, addenda and footnotes. Except as otherwise provided herein, or as later amended, said California Building Code is hereby referred to and by such reference is incorporated herein as if fully set forth and is hereby adopted by as the Building Code of the City of Vernon.

SECTION 19: Section 24.11 of Article II of Chapter 24 the Vernon Municipal Code is hereby amended to read as follows:

Sec. 24.11. Building Code amendments, additions, and deletions. The 2016 California Building Code is hereby amended as follows:

(a) Section 105.8 is hereby added to Chapter 1 of the 2016 Edition of the California Building Code to read as follows:

105.8 Responsibility of permittee. Building permits shall be presumed to incorporate the provision, that the applicant, the applicant's agent, employees or contractors shall carry out the proposed work in accordance with the approved plans and with all the requirements of the code and any other law or regulations applicable thereto, whether specified or not. No approval shall exonerate any person from the responsibility of complying with the provisions or intent of the code.

(b) Section 110.7 is hereby added to Chapter 1 of the 2016

Edition of the California Building Code to read as follows:

110.7 Reinspection. A reinspection fee may be assessed for each inspection or reinspection when such portion of the work for which an inspection is called is not complete or when corrections called for are not made.

Reinspection fees may be assessed when the inspection record card is not posted or otherwise available at the work site, the approved plans are not readily available to the inspector, for failure to provide access on the date and time for which the inspection is requested, or for deviating from the plans requiring the approval of the building official.

In instances where reinspection fees have been assessed, the city may deny additional inspection of the work until the required fees are paid.

(c) Section 111.1 of the 2016 Edition of the California Building Code is hereby amended to read as follows:

111.1 Use and occupancy. No building or structure shall be used or occupied, and no change in the existing use or occupancy classification of a building or structure or portion thereof shall be made until the building official has issued a certificate of occupancy therefore as provided herein. 'Change in Use' shall include, but not be limited to, any change in occupancy classification or any change of tenancy of a building for which a new business license or certificate of occupancy is required under the Code of the City of Vernon. When determined by the building official that a special inspection is required to determine compliance with the Code of the City of Vernon or with this code for a certificate of occupancy, an inspection fee shall be paid as set forth by resolution of the City Council. Issuance of a

certificate of occupancy shall not be construed as an approval of a violation of the provisions of the Code of the City of Vernon, of this code, or of any other ordinances of this jurisdiction. A certificate of occupancy which presumes to give authority to violate or cancel the provisions of the Code of the City of Vernon, of this code, or of any other ordinance shall not be valid.

Exception: Certificates of occupancy are not required for work exempt from permits under Section 105.2. A certificate of occupancy shall not be required for a change in Tenancy of a Group R Occupancy.

(d) Section 1505.1 of the 2016 Edition of the California Building Code is hereby amended to read as follows:

1505.1 Roof assembly requirements. The roof assembly on any structure regulated by this code shall be as specified in Table 1505.1 except that only fire retardant roof coverings meeting class A or B roofing assemblies are permitted in the City of Vernon. Roof coverings required to be listed by this section shall be tested in accordance with ASTM E 108 or UL 790. The roofing assembly includes the roof deck, underlayment, interlayment, insulation and covering, which is assigned a roof classification.

Exception: Skylights and sloped glazing that comply with Chapter 24 or Section 2610.

(e) Section 1507.3.1 of the 2016 Edition of the California Building Code is hereby amended to read as follows:

1507.3.1 Deck requirements. Concrete and clay tile shall be installed only over solid structural sheathing boards.

(f) Section 1613.5.2 is added to Chapter 16 of the 2016 Edition of the California Building Code to read as follows:

1613.5.2 Structural Separation. Modify ASCE 7 Section

12.12.3 Equation 12.12-1 to read as follows:

$$\delta_M = \frac{C_d \delta_{\max}}{I_e}$$

(12.12-1)

(g) Section 1613.5.3 is added to Chapter 16 of the 2016 Edition of the California Building Code to read as follows:

1613.5.3 Values for Vertical Combinations. Modify ASCE 7

Section 12.2.3.1 Exception 3 as follows:

3. Detached one- and two-family dwellings up to two stories in height of light frame construction.

(h) Section 1613.5.4 is hereby added to Chapter 16 of the 2016 Edition of the California Building Code to read as follows:

1613.5.4 Wood Diaphragms. Modify ASCE 7 Section 12.11.2.2.3

as follows:

12.11.2.2.3 Wood Diaphragms. In wood diaphragms, the continuous ties shall be in addition to the diaphragm sheathing. Anchorage shall not be accomplished by use of toe nails or nails subject to withdrawal nor shall wood ledgers or framing be used in cross-grain bending or cross-grain tension. The diaphragm sheathing shall not be considered effective as providing ties or struts required by this section.

For structures assigned to Seismic Design Category D, E or F, wood diaphragms supporting concrete or masonry walls shall comply with the following:

1. The spacing of continuous ties shall not exceed 40 feet. Added chords of diaphragms may be used to form subdiaphragms to transmit the anchorage forces to the main continuous crossties.

2. The maximum diaphragm shear used to determine the depth

of the subdiaphragm shall not exceed 75% of the maximum diaphragm shear.

(i) Section 1613.5.5 is hereby added to Chapter 16 of the 2016 Edition of the California Building Code to read as follows:

1613.5.5 Maximum S_{DS} Value in Determination of C_s and E_v .

Modify ASCE 7 Section 12.8.1.3 as follows:

12.8.1.3 Maximum S_{DS} Value in Determination of C_s and E_v . The value of C_s and E_v are permitted to be calculated using a value of S_{DS} equal to 1.0 but not less than 70% of S_{DS} as defined in Section 11.4.4, provided that all of the following criteria are met:

1. The structure does not have irregularities, as defined in Section 12.3.2;
2. The structure does not exceed five stories above the lower of the base or grade plane as defined in Section 11.2, and, where present, each mezzanine level shall be considered a story for the purpose of this limit;
3. The structure has a fundamental period, T , that does not exceed 0.5 seconds, as determined using Section 12.8.2;
4. The structure meets the requirements necessary for the redundancy factor, ρ , to be permitted to be taken as 1.0, in accordance with Section 12.3.4.2;
5. The site soil properties are not classified as Site Classes E or F, as defined in Section 11.4.2; and
6. The structure is classified as Risk Category I or II, as defined in Section 1.5.1.

(j) Section 1613.8 is hereby added to Chapter 16 of the 2016 Edition of the California Building Code to read as follows:

1613.8 Suspended Ceilings. Minimum design and installation

standards for suspended ceilings shall be determined in accordance with the requirements of Section 2506.2.1 of this Code and this section.

1613.8.1 Scope. This part contains special requirements for suspended ceilings and lighting systems. Provisions of Section 13.5.6 of ASCE 7 shall apply except as modified herein.

1613.8.2 General. The suspended ceilings and lighting systems shall be limited to 6 feet (1828 mm) below the structural deck unless the lateral bracing is designed by a licensed engineer or architect.

1613.8.3 Sprinkler Heads. All sprinkler heads (drops) except fire-resistance-rated floor/ceiling or roof/ceiling assemblies, shall be designed to allow for free movement of the sprinkler pipes with oversize rings, sleeves or adaptors through the ceiling tile. Sprinkler heads and other penetrations shall have a 2 inch (50mm) oversize ring, sleeve, or adapter through the ceiling tile to allow for free movement of at least 1 inch (25mm) in all horizontal directions. Alternatively, a swing joint that can accommodate 1 inch (25 mm) of ceiling movement in all horizontal directions is permitted to be provided at the top of the sprinkler head extension. Sprinkler heads penetrating fire-resistance-rated floor/ceiling or roof/ceiling assemblies shall comply with Section 714 of this Code.

1613.8.4 Special Requirements for Means of Egress. Suspended ceiling assemblies located along means of egress serving an occupant load of 30 or more shall comply with the following provisions.

1613.8.4.1 General. Ceiling suspension systems shall be connected and braced with vertical hangers attached directly to the structural deck along the means of egress serving an occupant load of 30 or more and at lobbies accessory to Group A Occupancies. Spacing of vertical hangers shall not exceed 2 feet (610 mm) on center along the

entire length of the suspended ceiling assembly located along the means of egress or at the lobby.

1613.8.4.2 Assembly Device. All lay-in panels shall be secured to the suspension ceiling assembly with two hold-down clips minimum for each tile within a 4-foot (1219 mm) radius of the exit lights and exit signs.

1613.8.4.3 Emergency Systems. Independent supports and braces shall be provided for light fixtures required for exit illumination. Power supply for exit illumination shall comply with the requirements of Section 1008.3 of this Code.

1613.8.4.4 Supports for Appendage. Separate support from the structural deck shall be provided for all appendages such as light fixtures, air diffusers, exit signs, and similar elements.

(k) Section 1704.6 of the 2016 Edition of the California Building Code is amended to read as follows:

1704.6 Structural Observations. Where required by the provisions of Section 1704.6.1 or 1704.6.2, the owner shall employ a structural observer to perform structural observations as defined in Section 1702. The structural observer shall be one of the following individuals:

1. The registered design professional responsible for the structural design, or
2. A registered design professional designated by the registered design professional responsible for the structural design.

Prior to the commencement of observations, the structural observer shall submit to the building official a written statement identifying the frequency and extent of structural observations.

The owner and owner's representative shall submit a written

report to the building official certified by the structural observer, contractors, subcontractors and special inspectors under penalty of perjury that said persons have identified the specific major structural elements and connections that affect the vertical and lateral load resisting systems of the structure and that said persons have reviewed the scheduling of the required observations. Said specific major structural elements and connections and scheduling shall be submitted to the building official as an attachment to said written report.

Any person observing such deficiencies shall promptly report same in writing to the owner or owner's representative, special inspector, contractor and the building official. Upon the form prescribed by the building official, the structural observer shall submit to the building official a written statement at each significant construction stage stating that the site visits have been made and identifying any reported deficiencies which, to the best of the structural observer's knowledge, have not been resolved. A final report by the structural observer which states that all observed deficiencies have been resolved shall be required before acceptance of the work by the building official.

(1) Section 1704.6.1 of the 2016 Edition of the California Building Code is amended to read as follows:

1704.6.1 Structural observations for seismic resistance. A report of the structural observations shall be provided to the building official by the structural observer for those structures assigned to Seismic Design Category D, E or F, where one or more of the following conditions exist:

1. The structure is classified as Risk Category III or IV in accordance with Table 1604.5.

2. The height of the structure is greater than 75 feet (22860 mm) above the base.

3. The structure is classified as Risk Category I or II in accordance with Table 1604.5, and a lateral design is required for the structure or portion thereof.

Exception: One-story wood framed Group R-3 and Group U Occupancies less than 2,000 square feet in area, provided the adjacent grade is not steeper than 1 unit vertical in 10 units horizontal (10% sloped), assigned to Seismic Design Category D.

4. When so designated by the registered design professional responsible for the structural design.

5. When such observation is specifically required by the building official.

(m) Section 1705.3 of the 2016 Edition of the California Building Code is amended to read as follows:

1705.3 Concrete Construction. The special inspections and verifications for concrete construction shall be as required by this section and Table 1705.3.

Exceptions: Special inspection shall not be required for:

1. Isolated spread concrete footings of buildings three stories or less above grade plane that are fully supported on earth or rock, where the structural design of the footing is based on a specified compressive strength, $f'c$, no greater than 2,500 pounds per square inch (psi) (17.2 Mpa) regardless of the compressive strength specified in the construction documents or used in the footing construction.

2. Continuous concrete footings supporting walls of buildings three stories or less in height that are fully supported on

earth or rock where:

- 2.1. The footings support walls of light-frame construction;
- 2.2. The footings are designed in accordance with Table 1805.4.2; or
- 2.3. The structural design of the footing is based on a specified compressive strength, $f'c$, no greater than 2,500 pounds per square inch (psi) (17.2 Mpa), regardless of the compressive strength specified in the construction documents or used in the footing construction.
3. Nonstructural concrete slabs supported directly on the ground, including prestressed slabs on grade, where the effective prestress in the concrete is less than 150 psi (1.03 Mpa).
4. Concrete patios, driveways and sidewalks, on grade.

(n) Section 1705.12 of the 2016 Edition of the California Building Code is hereby amended to read as follows:

1705.12 Special inspections for seismic resistance. Special inspections for seismic resistance shall be required as specified in Sections 1705.12.1 through 1705.12.9, unless exempted by the exceptions of Section 1704.2.

Exception: The special inspections specified in Sections 1705.12.1 through 1705.12.9 are not required for structures designed and constructed in accordance with one of the following:

1. The structure consists of light-frame construction; the design spectral response acceleration at short periods, S_{DS} , as determined in Section 1613.3.4, does not exceed 0.5; and the building height of the structure does not exceed 35 feet (10 668 mm)

2. The seismic force-resisting system of the structure consists of reinforced masonry or reinforced concrete; the design spectral response acceleration at short periods, S_{DS} , as determined in Section 1613.3.4, does not exceed 0.5; and the building height of the structure does not exceed 25 feet (7620 mm)

3. The structure is a detached one- or two-family dwelling not exceeding two stories above grade plane, is not assigned to Seismic Design Category D, E or F and does not have any of the following horizontal or vertical irregularities in accordance with Section 12.3 of ASCE 7:

3.1 Torsional or extreme torsional irregularity.

3.2 Nonparallel systems irregularity.

3.3 Stiffness-soft story or stiffness-extreme soft story irregularity.

3.4 Discontinuity in lateral strength-weak story irregularity.

(o) Section 1807.1.4 of the 2016 Edition of the California Building Code is hereby amended to read as follows:

1807.1.4 Permanent wood foundation systems. Permanent wood foundation systems shall be designed and installed in accordance with AWC PWF. Lumber and plywood shall be treated in accordance with AWPA U1 (Commodity Specification A, Use Category 4B and Section 5.2) and shall be identified in accordance with Section 2303.1.9.1. Permanent wood foundation systems shall not be used for structures assigned to Seismic Design Category D, E or F.

(p) Section 1807.1.6 of the 2016 Edition of the California Building Code is hereby amended to read as follows:

1807.1.6 Prescriptive design of concrete and masonry

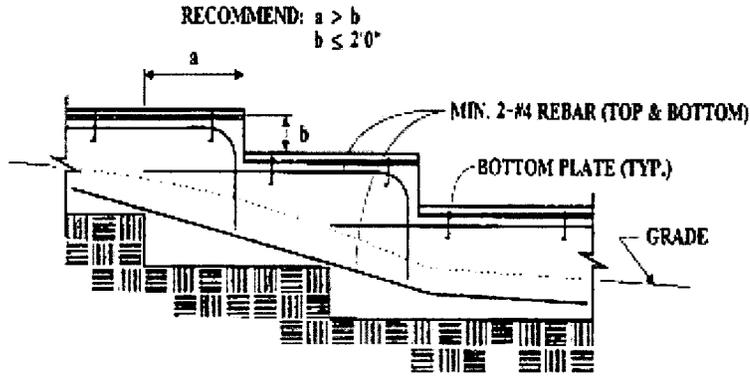
foundation walls. Concrete and masonry foundation walls that are laterally supported at the top and bottom shall be permitted to be designed and constructed in accordance with this section. Prescriptive design of foundation walls shall not be used for structures assigned to Seismic Design Category D, E or F.

(q) Section 1809.3 of the 2016 Edition of the California Building Code is hereby amended to read as follows:

1809.3 Stepped footings. The top surface of footings shall be level. The bottom surface of footings shall be permitted to have a slope not exceeding one unit vertical in 10 units horizontal (10-percent slope). Footings shall be stepped where it is necessary to change the elevation of the top surface of the footing or where the surface of the ground slopes more than one unit vertical in 10 units horizontal (10-percent slope).

For structures assigned to Seismic Design Category D, E or F, the stepping requirement shall also apply to the top surface of grade beams supporting walls. Footings shall be reinforced with four No. 4 bars. Two bars shall be placed at the top and bottom of the footings as shown in Figure 1809.3.

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STEPPED FOUNDATIONS

**FIGURE 1809.3
STEPPED FOOTING**

(r) Section 1809.7 and Table 1809.7 of the 2016 Edition of the California Building Code is hereby amended to read as follows:

1809.7 Prescriptive footings for light-frame construction.

Where a specific design is not provided, concrete or masonry-unit footings supporting walls of light-frame construction shall be permitted to be designed in accordance with Table 1809.7. Prescriptive footings in Table 1809.7 shall not exceed one story above grade plane for structures assigned to Seismic Design Category D, E or F.

**TABLE 1809.7
PRESCRIPTIVE FOOTINGS SUPPORTING WALLS OF
LIGHT-FRAME CONSTRUCTION^{a, b, c, d, e}**

NUMBER OF FLOORS SUPPORTED BY THE FOOTING^f	WIDTH OF FOOTING (inches)	THICKNESS OF FOOTING (inches)
1	12	6
2	15	6
3	18	8

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm

- a. Depth of footings shall be in accordance with Section 1809.4.
- b. The ground under the floor shall be permitted to be excavated to the elevation of the top of the footing.

- c. Not Adopted.
- d. See Section 1908 for additional requirements for concrete footings of structures assigned to Seismic Design Category C, D, E or F.
- e. For thickness of foundation walls, see Section 1807.1.6.
- f. Footings shall be permitted to support a roof addition to the stipulated number of floors. Footings supporting roof only shall be as required for supporting one floor.
- g. Not Adopted.

(s) Section 1809.12 of the 2016 Edition of the California Building Code is hereby amended to read as follows:

1809.12 Timber footings. Timber footings shall be permitted for buildings of Type V construction and as otherwise approved by the building official. Such footings shall be treated in accordance with AWPA U1 (Commodity Specification A, Use Category 4B). Treated timbers are not required where placed entirely below permanent water level, or where used as capping for wood piles that project above the water level over submerged or marsh lands. The compressive stresses perpendicular to grain in untreated timber footing supported upon treated piles shall not exceed 70 percent of the allowable stresses for the species and grade of timber as specified in the American National Standards Institute/American Wood Council National Design Specifications (ANSI/AWC NDS). Timber footings shall not be used in structures assigned to Seismic Design Category D, E or F.

(t) Section 1810.3.2.4 of the 2016 Edition of the California Building Code is hereby amended to read as follows:

1810.3.2.4 Timber. Timber deep foundation elements shall be designed as piles or poles in accordance with ANSI/AWC NDS. Round

timber elements shall conform to ASTM D 25. Sawn timber elements shall conform to DOC PS-20. Timber shall not be used in structures assigned to Seismic Design Category D, E or F.

(u) Section 1905.1.7 of the 2016 Edition of the California Building Code is hereby amended to read as follows:

1905.1.7 ACI 318, Section 14.1.4. Delete ACI 318, Section 14.1.4, and replace with the following:

14.1.4 - Plain concrete in structures assigned to Seismic Design Category C, D, E or F.

14.1.4.1 - Structures assigned to Seismic Design Category C, D, E or F shall not have elements of structural plain concrete, except as follows:

- (a) Concrete used for fill with a minimum cement content of two (2) sacks of Portland cement or cementitious material per cubic yard.
- (b) Isolated footings of plain concrete supporting pedestals or columns are permitted, provided the projection of the footing beyond the face of the supported member does not exceed the footing thickness.
- (c) Plain concrete footings supporting walls are permitted provided the footings have at least two continuous longitudinal reinforcing bars. Bars shall not be smaller than No. 4 and shall have a total area of not less than 0.002 times the gross cross-sectional area of the footing. A minimum of one bar shall be provided at the top and bottom of the footing. Continuity of reinforcement shall be provided at corners and intersections. In detached one- and two-family dwellings

three stories or less in height and constructed with stud-bearing walls, are permitted to have plain concrete footings with at least two continuous longitudinal reinforcing bars not smaller than No. 4 are permitted to have a total area of less than 0.002 times the gross cross-sectional area of the footing.

(v) Section 1905.1 is amended and Sections 1905.1.9 thru 1905.1.11 are added to Chapter 19 of the 2016 Edition of the California Building Code to read as follows:

1905.1 General. The text of ACI 318 shall be modified as indicated in Sections 1905.1.9 through 1905.1.11.

1905.1.9 ACI 318, Section 18.7.5. Modify ACI 318, Section 18.7.5, by adding Section 18.7.5.7 and 18.7.5.8 as follows:

18.7.5.7 Where the calculated point of contraflexure is not within the middle half of the member clear height, provide transverse reinforcement as specified in ACI 318 Sections 18.7.5.1, Items (a) through (c), over the full height of the member.

18.7.5.8 At any section where the design strength, ϕP_n , of the column is less than the sum of the shears V_e computed in accordance with ACI 318 Sections 18.7.6.1. and 18.6.5.1 for all the beams framing into the column above the level under consideration, transverse reinforcement as specified in ACI 318 Sections 18.7.5.1 through 18.7.5.3 shall be provided. For beams framing into opposite sides of the column, the moment components are permitted to be assumed to be of opposite sign. For the determination of the design strength, ϕP_n , of the column, these moments are permitted to be assumed to result from the deformation of the frame in any one principal axis.

1905.1.10 ACI 318, Section 18.10.4. Modify ACI 318, Section

18.10.4, by adding Section 18.10.4.6 as follows:

18.10.4.6 - Walls and portions of walls with $P_u > 0.35P_o$ shall not be considered to contribute to the calculated shear strength of the structure for resisting earthquake-induced forces. Such walls shall conform to the requirements of ACI 318 Section 18.14.

1905.1.11 ACI 318, Section 18.12.6. Modify ACI 318, by adding Section 18.12.6.2 as follows:

18.12.6.2 Collector and boundary elements in topping slabs placed over precast floor and roof elements shall not be less than 3 inches (76 mm) or $6 d_b$ in thickness, where d_b is the diameter of the largest reinforcement in the topping slab.

(w) Section 2304.10.1 of the 2016 Edition of the California Building Code is hereby amended to read as follows:

2304.10.1 Fastener requirements. Connections for wood members shall be designed in accordance with the appropriate methodology in Section 2301.2. The number and size of fasteners connecting wood members shall not be less than that set forth in Table 2304.10.1. Staple fasteners in Table 2304.10.1 shall not be used to resist or transfer seismic forces in structures assigned to Seismic Design Category D, E or F.

Exception: Staples may be used to resist or transfer seismic forces when the allowable shear values are substantiated by cyclic testing and approved by the building official.

(x) Section 2304.12.5 of the 2016 Edition of the California Building Code is hereby amended to read as follows:

2304.12.5 Wood used in retaining walls and crib walls. Wood installed in retaining or crib walls shall be preservative treated in accordance with AWPA U1 for soil and fresh water use. Wood shall not be

used in retaining or crib walls for structures assigned to Seismic Design Category D, E or F.

(y) Section 2305.4 is added to Chapter 23 of the 2016 Edition of the California Building Code to read as follows:

2305.4 Quality of Nails. In Seismic Design Category D, E or F, mechanically driven nails used in wood structural panel shear walls shall meet the same dimensions as that required for hand-driven nails, including diameter, minimum length and minimum head diameter. Clipped head or box nails are not permitted in new construction. The allowable design value for clipped head nails in existing construction may be taken at no more than the nail-head-area ratio of that of the same size hand-driven nails.

(z) Section 2305.5 is hereby added to Chapter 23 of the 2016 Edition of the California Building Code to read as follows:

2305.5 Hold-down connectors. In Seismic Design Category D, E or F, hold-down connectors shall be designed to resist shear wall overturning moments using approved cyclic load values or 75 percent of the allowable seismic load values that do not consider cyclic loading of the product. Connector bolts into wood framing shall require steel plate washers on the post on the opposite side of the anchorage device. Plate size shall be a minimum of 0.229 inch by 3 inches by 3 inches (5.82 mm by 76 mm by 76 mm) in size. Hold-down connectors shall be tightened to finger tight plus one half (1/2) wrench turn just prior to covering the wall framing.

(aa) Section 2306.2 of the 2016 Edition of the California Building Code is hereby amended to read as follows:

2306.2 Wood-frame diaphragms. Wood-frame diaphragms shall be designed and constructed in accordance with AWC SDPWS. Where panels are

fastened to framing members with staples, requirements and limitations of AWC SDPWS shall be met and the allowable shear values set forth in Table 2306.2(1) or 2306.2(2) shall only be permitted for structures assigned to Seismic Design Category A, B, or C.

Exception: Allowable shear values where panels are fastened to framing members with staples may be used if such values are substantiated by cyclic testing and approved by the building official.

The allowable shear values in Tables 2306.2(1) and 2306.2(2) are permitted to be increased 40 percent for wind design.

Wood structural panel diaphragms used to resist seismic forces in structures assigned to Seismic Design Category D, E or F shall be applied directly to the framing members.

Exception: Wood structural panel diaphragms are permitted to be fastened over solid lumber planking or laminated decking, provided the panel joints and lumber planking or laminated decking joints do not coincide.

(bb) Section 2306.3 is amended in Chapter 23 of the 2016 Edition of the California Building Code to read as follows:

2306.3 Wood-frame shear walls. Wood-frame shear walls shall be designed and constructed in accordance with AWC SDPWS. For structures assigned to Seismic Design Category D, E, or F, application of Tables 4.3A and 4.3B of AWC SDPWS shall include the following:

1. Wood structural panel thickness for shear walls shall not be less than 3/8 inch thick and studs shall not be spaced at more than 16 inches on center.

2. The maximum nominal unit shear capacities for 3/8 inch wood structural panels resisting seismic forces in structures assigned to Seismic Design Category D, E or F is 400 pounds per linear foot

(plf).

Exception: Other nominal unit shear capacities may be permitted if such values are substantiated by cyclic testing and approved by the building official.

3. Nails shall be placed not less than 1/2 inch in from the panel edges and not less than 3/8 inch from the edge of the connecting members for shear greater than 350 plf using ASD or 500 plf using LRFD. Nails shall be placed not less than 3/8 inch from panel edges and not less than 1/4 inch from the edge of the connecting members for shears of 350 plf or less using ASD or 500 plf or less using LRFD.

4. Table 4.3B application is not allowed for structures assigned to Seismic Design Category D, E, or F.

For structures assigned to Seismic Design Category D, application of Table 4.3C of AWC SDPWS shall not be used below the top level in a multi-level building.

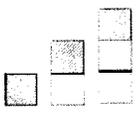
Where panels are fastened to framing members with staples, requirements and limitations of AWC SDPWS shall be met and the allowable shear values set forth in Table 2306.3(1), 2306.3(2) or 2306.3(3) shall only be permitted for structures assigned to Seismic Design Category A, B, or C.

Exception: Allowable shear values where panels are fastened to framing members with staples may be used if such values are substantiated by cyclic testing and approved by the building official.

The allowable shear values in Tables 2306.3(1) and 2306.3(2) are permitted to be increased 40 percent for wind design. Panels complying with ANSI/APA PRP-210 shall be permitted to use design values for Plywood Siding in the AWC SDPWS.

(cc) Section 2307.2 is added to Chapter 23 of the 2016

TABLE 2308.6.1^a
WALL BRACING REQUIREMENTS

SEISMIC DESIGN CATEGORY	STORY CONDITION (SEE SECTION 2308.2)	MAXIMUM SPACING OF BRACED WALL LINES	BRACED PANEL LOCATION, SPACING (O.C.) AND MINIMUM PERCENTAGE (X)			MAXIMUM DISTANCE OF BRACED WALL PANELS FROM EACH END OF BRACED WALL LINE
			Bracing method ^b			
			LIB	DWB, WSP	SFB, PBS, PCP, HPS, GB ^d	
A and B		35'-0"	Each end and ≤ 25'-0" o.c.	Each end and ≤ 25'-0" o.c.	Each end and ≤ 25'-0" o.c.	12'-6"
		35'-0"	Each end and ≤ 25'-0" o.c.	Each end and ≤ 25'-0" o.c.	Each end and ≤ 25'-0" o.c.	12'-6"
		35'-0"	NP	Each end and ≤ 25'-0" o.c.	Each end and ≤ 25'-0" o.c.	12'-6"
C		35'-0"	NP	Each end and ≤ 25'-0" o.c.	Each end and ≤ 25'-0" o.c.	12'-6"
		35'-0"	NP	Each end and ≤ 25'-0" o.c. (minimum 25% of wall length) ^f	Each end and ≤ 25'-0" o.c. (minimum 25% of wall length) ^f	12'-6"
D and E <i>f, g, h</i>		25'-0"	NP	$S_{D,1} < 0.50$: Each end and ≤ 25'-0" o.c. (minimum 21% of wall length) ^f	$S_{D,1} < 0.50$: Each end and ≤ 25'-0" o.c. (minimum 43% of wall length) ^f	8'-0"
				$0.5 \leq S_{D,1} < 0.75$: Each end and ≤ 25'-0" o.c. (minimum 32% of wall length) ^f	$0.5 \leq S_{D,1} < 0.75$: Each end and ≤ 25'-0" o.c. (minimum 59% of wall length) ^f	
				$0.75 \leq S_{D,1} \leq 1.00$: Each end and ≤ 25'-0" o.c. (minimum 37% of wall length) ^f	$0.75 \leq S_{D,1} \leq 1.00$: Each end and ≤ 25'-0" o.c. (minimum 75% of wall length)	
				$S_{D,1} > 1.00$: Each end and ≤ 25'-0" o.c. (minimum 48% of wall length) ^f	$S_{D,1} > 1.00$: Each end and ≤ 25'-0" o.c. (minimum 100% of wall length) ^f	

For SI, 1 inch = 25.4 mm, 1 foot = 304.8 mm.

NP = Not Permitted.

- a. This table specifies minimum requirements for braced wall panels along interior or exterior braced wall lines.
- b. See Section 2308.6.3 for full description of bracing methods.
- c. For Method GB, gypsum wallboard applied to framing supports that are spaced at 16 inches on center.
- d. The required lengths shall be doubled for gypsum board applied to only one face of a braced wall panel.
- e. Percentage shown represents the minimum amount of bracing required along the building length (or wall length if the structure has an irregular shape).
- f. DWB, SFB, PBS, and HPS wall braces are not permitted in Seismic Design Categories D or E.
- g. Minimum length of panel bracing of one face of the wall for WSP sheathing shall be at least 4'-0" long or both faces of the wall for GB or PCP sheathing shall be at least 8'-0" long; h/w ratio shall not exceed 2:1. Wall framing to which sheathing used for bracing is applied shall be nominal 2 inch wide (actual 1 1/2 inch (38 mm) or larger members and spaced a maximum of 16 inches on center. Braced wall panel construction types shall not be mixed within a braced wall line.
- h. WSP sheathing shall be a minimum of 15/32" thick nailed with 8d common placed 3.8 inches from panel edges and spaced not more than 6 inches on center and 12 inches on center along intermediate framing members.

(ee) Section 2308.6.5 and Figure 2308.6.5.1 of the 2016 Edition of the California Building Code are hereby amended to read as follows:

2308.6.5 Alternative bracing. An alternate braced wall (ABW) or a portal frame with hold-downs (PFH) described in this section is permitted to substitute for a 48-inch (1219 mm) braced wall panel of Method DWB, WSP, SFB, PBS, PCP or HPS. For Method GB, each 96-inch (2438 mm) section (applied to one face) or 48-inch (1219 mm) section (applied to both faces) or portion thereof required by Table 2308.6.1 is permitted to be replaced by one panel constructed in accordance with Method ABW or PFH.

2308.6.5.1 Alternate braced wall (ABW). An ABW shall be constructed in accordance with this section and Figure 2308.6.5.1. In one-story buildings, each panel shall have a length of not less than 2 feet 8 inches (813 mm) and a height of not more than 10 feet (3048 mm). Each panel shall be sheathed on one face with 3/8-inch (3.2 mm) minimum-thickness wood structural panel sheathing nailed with 8d common or galvanized box nails in accordance with Table 2304.10.1 and blocked at wood structural panel edges. For structures assigned to Seismic Design Category D or E, each panel shall be sheathed on one face with 15/32-inch-minimum-thickness (11.9 mm) wood structural panel sheathing nailed with 8d common nails spaced 3 inches on panel edges, 3 inches at

intermediate supports. Two anchor bolts installed in accordance with Section 2308.3.1 shall be provided in each panel. Anchor bolts shall be placed at each panel outside quarter points. Each panel end stud shall have a hold-down device fastened to the foundation, capable of providing an approved uplift capacity of not less than 1,800 pounds (8006 N). The hold-down device shall be installed in accordance with the manufacturer's recommendations. The ABW shall be supported directly on a foundation or on floor framing supported directly on a foundation that is continuous across the entire length of the braced wall line. This foundation shall be reinforced with not less than one No. 4 bar top and bottom. Where the continuous foundation is required to have a depth greater than 12 inches (305 mm), a minimum 12-inch by 12-inch (305 mm by 305 mm) continuous footing or turned-down slab edge is permitted at door openings in the braced wall line. This continuous footing or turned-down slab edge shall be reinforced with not less than one No. 4 bar top and bottom. This reinforcement shall be lapped 15 24 inches (381 610 mm) with the reinforcement required in the continuous foundation located directly under the braced wall line.

Where the ABW is installed at the first story of two-story buildings, the wood structural panel sheathing shall be provided on both faces, three anchor bolts shall be placed at one-quarter points and tie-down device uplift capacity shall be not less than 3,000 pounds (13 344 N).

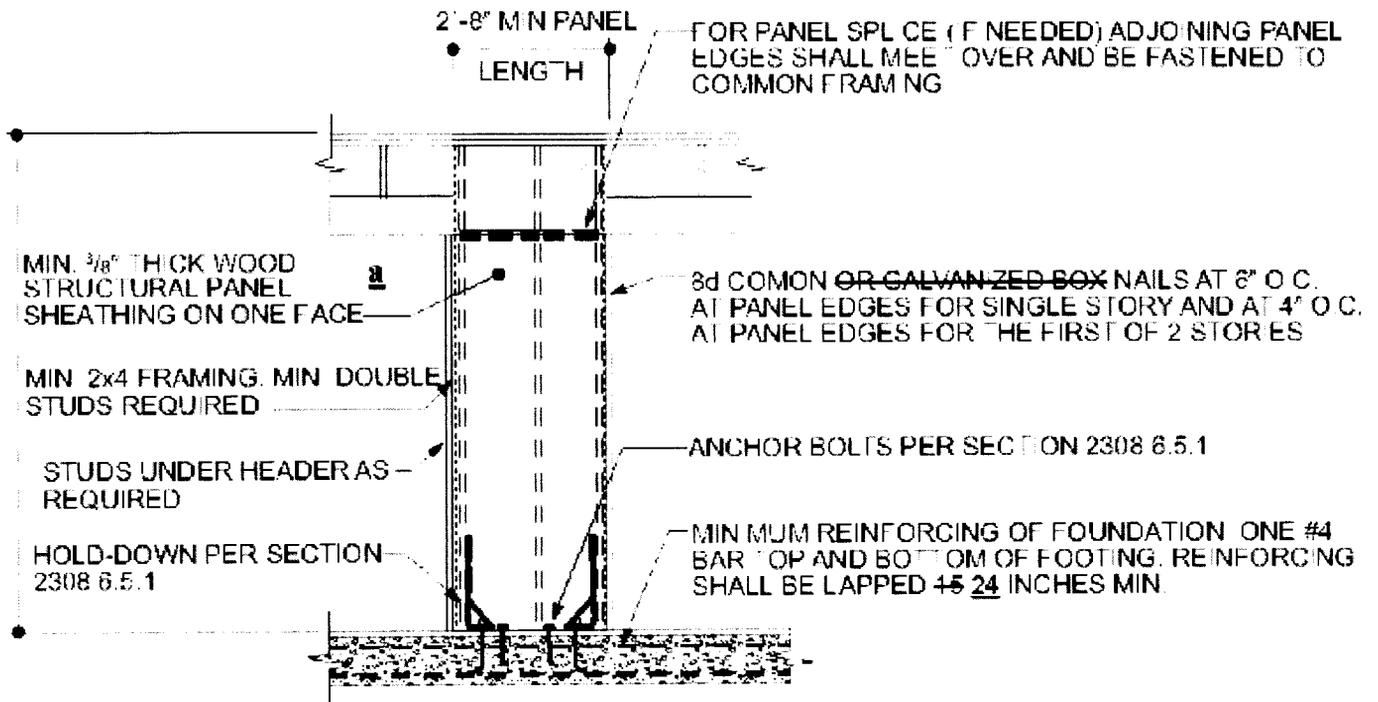
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For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

a. For structures assigned to Seismic Design Category D or E, sheathed on one face with 15/32-inch-minimum-thickness (11.9 mm) wood structural panel sheathing.

**FIGURE 2308.6.5.1
ALTERNATE BRACED WALL PANEL (ABW)**

(ff) Section 2308.6.5.2 and Figure 2308.6.5.2 of the 2016 Edition of the California Building Code are hereby amended to read as follows:

2308.6.5.2 Portal frame with hold-downs (PFH). A PFH shall be constructed in accordance with this section and Figure 2308.6.5.2. The adjacent door or window opening shall have a full-length header. In one-story buildings, each panel shall have a length of not less than 16 inches (406 mm) and a height of not more than 10 feet (3048 mm). Each panel shall be sheathed on one face with a single layer of 3/8-inch (9.5 mm) minimum-thickness wood structural panel sheathing nailed with 8d common or galvanized box nails in accordance with Figure 2308.6.5.2. For structures assigned to Seismic Design Category D or E, each panel shall be sheathed on one face with 15/32-inch minimum-thickness (11.9

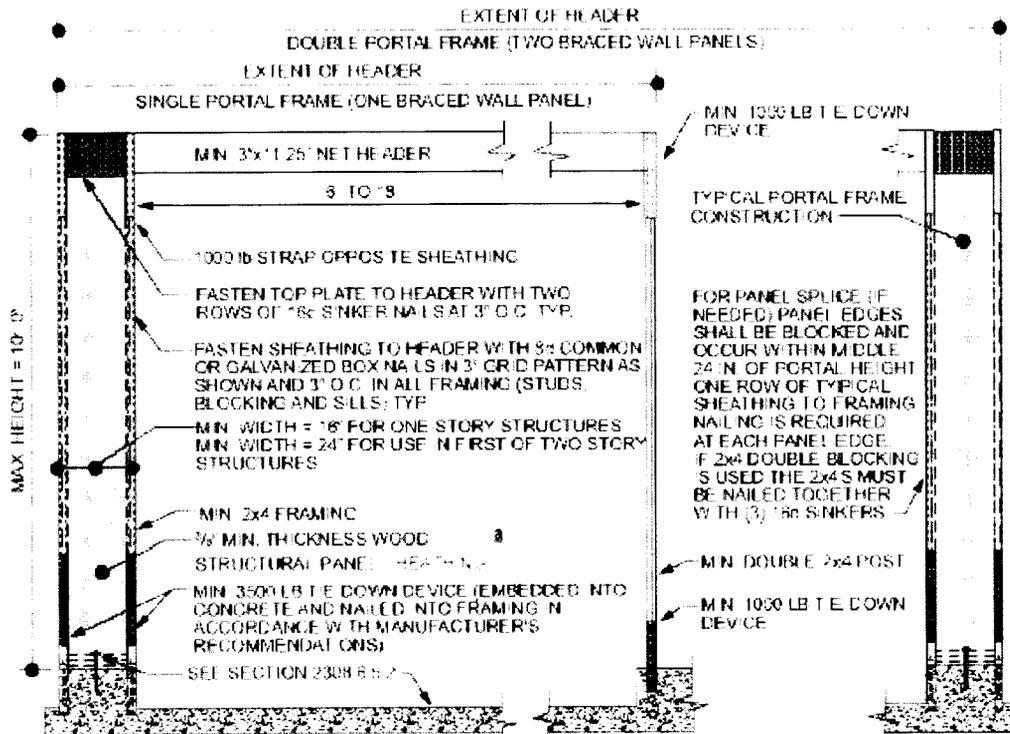
mm) wood structural panel sheathing nailed with 8d common nails spaced 3 inches on panel edges, 3 inches at intermediate supports and in accordance with Figure 2308.6.5.2. The wood structural panel sheathing shall extend up over the solid sawn or glued-laminated header and shall be nailed in accordance with Figure 2308.6.5.2. A built-up header consisting of at least two 2-inch by 12-inch (51 mm by 305 mm) boards, fastened in accordance with Item 24 of Table 2304.10.1 shall be permitted to be used. A spacer, if used, shall be placed on the side of the built-up beam opposite the wood structural panel sheathing. The header shall extend between the inside faces of the first full-length outer studs of each panel. The clear span of the header between the inner studs of each panel shall be not less than 6 feet (1829 mm) and not more than 18 feet (5486 mm) in length. A strap with an uplift capacity of not less than 1,000 pounds (4,400 N) shall fasten the header to the inner studs opposite the sheathing. One anchor bolt not less than 5/8 inch (15.9 mm) diameter and installed in accordance with Section 2308.3.1 shall be provided in the center of each sill plate. The studs at each end of the panel shall have a hold-down device fastened to the foundation with an uplift capacity of not less than 3,500 pounds (15 570 N).

Where a panel is located on one side of the opening, the header shall extend between the inside face of the first full-length stud of the panel and the bearing studs at the other end of the opening. A strap with an uplift capacity of not less than 1,000 pounds (4400 N) shall fasten the header to the bearing studs. The bearing studs shall also have a hold-down device fastened to the foundation with an uplift capacity of not less than 1,000 pounds (4400 N). The hold-down devices shall be an embedded strap type, installed in

accordance with the manufacturer's recommendations. The PFH panels shall be supported directly on a foundation that is continuous across the entire length of the braced wall line. This foundation shall be reinforced with not less than one No. 4 bar top and bottom. Where the continuous foundation is required to have a depth greater than 12 inches (305 mm), a minimum 12-inch by 12-inch (305 mm by 305 mm) continuous footing or turned-down slab edge is permitted at door openings in the braced wall line. This continuous footing or turned-down slab edge shall be reinforced with not less than one No. 4 bar top and bottom. This reinforcement shall be lapped not less than 15 24 inches (381 610 mm) with the reinforcement required in the continuous foundation located directly under the braced wall line.

Where a PFH is installed at the first story of two-story buildings, each panel shall have a length of not less than 24 inches (610 mm).

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For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 pound = 4.448 N.

a. For structures assigned to Seismic Design Category D or E, sheathed on one face with 15/32-inch minimum thickness (11.9 mm) wood structural panel sheathing.

FIGURE 2308.6.5.2
PORTAL FRAME WITH HOLD-DOWNS (PFH)

(gg) Section 2308.6.8.1 of Chapter 23 of the 2016 Edition of the California Building Code is hereby amended to read as follows:

2308.6.8.1 Foundation requirements. Braced wall lines shall be supported by continuous foundations.

Exception: For structures with a maximum plan dimension not more than 50 feet (15240 mm), continuous foundations are required at exterior walls only for structures assigned to Seismic Design Category A, B, or C.

For structures in Seismic Design Categories D and E, exterior braced wall panels shall be in the same plane vertically with the foundation or the portion of the structure containing the offset shall be designed in accordance with accepted engineering practice and Section 2308.1.1.

(hh) Section 2308.6.9 of the 2016 Edition of the California Building Code is hereby amended to read as follows:

2308.6.9 Attachment of sheathing. Fastening of braced wall panel sheathing shall not be less than that prescribed in Table 2308.6.1 or 2304.10.1. Wall sheathing shall not be attached to framing members by adhesives. Staple fasteners in Table 2304.9.1 shall not be used to resist or transfer seismic forces in structures assigned to Seismic Design Category D, E or F.

Exception: Staples may be used to resist or transfer seismic forces when the allowable shear values are substantiated by cyclic testing and approved by the building official.

All braced wall panels shall extend to the roof sheathing and shall be attached to parallel roof rafters or blocking above with framing clips (18 gauge minimum) spaced at maximum 24 inches (6096 mm) on center with four 8d nails per leg (total eight 8d nails per clip). Braced wall panels shall be laterally braced at each top corner and at maximum 24 inches (6096 mm) intervals along the top plate of discontinuous vertical framing.

(ii) Section 2609 of the 2016 Edition of the California Building Code is hereby deleted.

(jj) Section 2610.9 is hereby added to Chapter 26 of the 2016 Edition of the California Building Code to read as follows:

2610.9 Approved materials. Notwithstanding the provisions in Chapter 26, no skylight shall be installed unless the materials, the construction standards, and the location have been approved by the building official, all in accordance with the provisions of this code.

1. Skylights which are flat or corrugated at the roof level shall be provided with an approved supporting barrier

immediately above or below the skylight.

2. Each skylight shall not exceed a maximum area of 32 square feet.
3. The aggregate area of all skylights shall not exceed 25 percent of the floor area of the room or space sheltered by the roof in which they are installed.
4. All existing skylights which are not in conformance with this code are deemed to be hazardous and shall be removed or protected in accordance with this section.

(kk) Section J101 of the 2016 Edition of the California Building Code is hereby amended to read as follows:

SECTION J101

GENERAL

J101.1 Scope. The provisions of this Appendix J apply to grading, excavation and earthwork construction, including fills and embankments and the control of grading site runoff, including erosion sediments and construction-related pollutants. Where conflicts occur between the technical requirements of this Appendix J and the geotechnical report, the more restrictive requirement shall govern. In addition to the provisions contained in this Appendix J, the grading shall also comply with all provisions contained in Chapter 21 of the City code.

J101.2 Flood hazard areas. The provisions of this Appendix J shall not apply to grading, excavation and earthwork construction, including fills and embankments, in floodways within flood hazard areas established in Section 1612.3 or in flood hazard areas where design flood elevations are specified but floodways have not been designated, unless it has been demonstrated through hydrologic and hydraulic

analyses performed in accordance with standard engineering practice that the proposed work will not result in any increase in the level of the base flood.

J101.3 Hazards. Whenever the building official determines that any land or any existing excavation or fill has, from any cause, become a menace to life or limb, or endangers public or private property, or adversely affects the safety, use or stability of public or private property, the owner or other person in legal control of the property concerned shall, upon receipt of a written notice thereof from the building official, correct such condition in accordance with the provisions of this Appendix J and the requirements and conditions set forth in the notice so as to eliminate such condition. The owner or other person in legal control of the property shall immediately comply with the provisions set forth in the notice and shall complete the work within 180 days from the date of the notice unless a shorter period of time for completion has been specified in the notice in which case the owner shall comply with the shorter period of time. Upon written application and good cause shown, the building official may approve the request for an extension of time to complete the work required by the notice.

J101.4 Safety precautions.

1. If at any stage of work on an excavation or fill, the building official determines that the work has become or is likely to become dangerous to any person, or is likely to endanger any property, public or private, the building official is hereby authorized to require safety precautions to be immediately taken by the property owner as a condition to continuing such permitted work or to require cessation thereof forthwith unless and until it is made safe and to

amend the plans for such work.

2. Safety precautions may include, but shall not be limited to, specifying a flatter exposed slope or construction of additional drainage facilities, berms, terracing, compaction, cribbing, retaining walls or buttress fills, slough walls, desilting basins, check dams, benching, wire mesh and guniting, rock fences, revetments or diversion walls.

3. Upon the determination of the building official that such safety precautions during grading are necessary, the building official shall provide a notice and order to the permittee to implement same. After receiving such notice in writing it is unlawful for the permittee or any person to proceed with such work contrary to such order.

J101.5 Protection of utilities. The owner and permittee of any property on which grading has been performed and that requires a grading permit under Section J103 shall be jointly and severally responsible for the prevention of damage to any public utilities or services.

J101.6 Protection of adjacent property. The owner and permittee of any property on which grading has been performed and that requires a grading permit under Section J103 shall be jointly responsible for the prevention of damage to adjacent property and no person shall excavate on land sufficiently close to the property line to endanger any adjoining public street, sidewalk, alley, or other public or private property without supporting and protecting such property from settling, cracking or other damage that might result. Special precautions approved by the building official shall be made to prevent imported or exported materials from being deposited on the

adjacent public way and/or drainage courses.

J101.7 Storm water control measures. The owner and permittee of any property on which grading has been performed and that requires a grading permit under Section J103 shall put into effect and maintain all precautionary measures necessary to protect adjacent water courses and public or private property from damage by erosion, flooding, and deposition of mud, debris and construction-related pollutants originating from the site during, and after, grading and related construction activities. Furthermore, the owner and permittee shall be jointly and severally responsible for putting into effect and maintaining appropriate measures as deemed by the building official to be necessary to prevent any change in cross-lot surface drainage that may adversely affect any adjoining property as a result of grading, construction-related activities or both. Such measures to prevent any adverse cross-lot surface drainage effects on adjoining property shall be required whether shown on approved grading plans or not.

J101.8 Conditions of approval. In granting any permit under this code, the building official may include such conditions as he/she deems to be reasonably necessary to prevent the creation of a nuisance or hazard to public or private property. Such conditions may include, but shall not be limited to:

1. Improvement of any existing grading to comply with the standards of this code.
2. Requirements for fencing of excavations or fills which would otherwise be hazardous.
3. Establishment of haul routes.
4. Establishment of water quality best management practices.

J101.9 Rules and regulations.

J101.9.1 Rules. The permissive provisions of this chapter shall not be presumed to waive any regulations imposed by other statutes or other ordinances of the State of California or the City.

J101.9.2 Regulations. If two or more pertinent regulations are not identical, those regulations shall prevail which are more restrictive or which afford greater safety to life, limb, health, property or welfare. For the purposes of these regulations, grading permits shall be considered as building permits and shall be subject to the administrative provisions of this code, unless otherwise specifically provided for in this Appendix J or the Vernon Municipal Code, or both.

J101.10 National Pollutant Discharge Elimination System

General. All grading plans and permits shall comply with the provisions of Chapter 21 of the City Code. Sites which have been graded and which require a grading permit under Appendix J Section J103 are subject to penalties and fines. Payment of penalty fines shall not relieve any persons from fully complying with the requirements of this code in the execution of the work. All best management practices shall be installed before grading begins or as instructed in writing by the building official. As grading progresses, all best management practices shall be updated as necessary to prevent erosion and control construction related pollutants from discharging from the site. All best management practices shall be maintained in good working order to the satisfaction of the building official unless final grading approval has been granted by the building official and all permanent drainage and erosion control systems, if required, are in place.

SECTION 20: Section 24.15 of Article III of Chapter 24,

Building and Construction, of the Code of the City of Vernon, is hereby amended to read as follows:

Sec. 24.15. 2016 California Electrical Code, adopted.

(a) The City of Vernon hereby adopts by reference the 2016 California Electrical Code as published by the California Building Standards Commission, California Code of Regulations, Title 24, Part 3 including all of its tables, indices, appendices, addenda and footnotes. Except as otherwise provided herein, or as later amended, said California Electrical Code is hereby referred to and by such reference is incorporated herein as if fully set forth and is hereby adopted as the Electrical Code of the City of Vernon.

(b) The City of Vernon hereby adopts by reference the 2006 International Code Council Electrical Code Administrative Provisions, as published by the International Code Council Inc., including all of its tables, indices, appendices, addenda and footnotes. Except as otherwise provided herein or later amended, said International Code Council Electrical Code Administrative Provisions is hereby referred to and by such reference is incorporated herein as if fully set forth and is adopted by reference as part of the Electrical Code of the City of Vernon.

SECTION 21: Section 24.16 of Article III of Chapter 24, Building and Construction, of the Code of the City of Vernon, is hereby amended as follows:

Sec. 24.16. Electrical Code amendments, additions, and deletions. The 2016 Edition of the California Electrical Code is hereby amended as follows:

(a) Article 110.14(A) of the 2016 Edition of the California Electrical Code is hereby amended to add the following sentence to the

end of the first paragraph:

All stranded aluminum conductors shall be terminated with an approved compression terminal.

(b) Article 200.6 of the 2016 Edition of the California Electrical Code is hereby amended to add the following sentences after the title line:

Color Coding. Grounded conductors of different voltage shall be identified by white and gray; grounded conductors of the 277/480 volt system shall be gray; grounded conductors of the lower voltage systems shall be white.

(c) Article 230.22 of the 2016 Edition of the California Electrical Code is hereby amended to read as follows:

230.22 Insulation or Covering. Individual conductors shall be insulated or covered. Service entrance conductors from overhead service drops shall be installed in rigid metal raceways.

Exception: The grounded conductor of a multiconductor cable shall be permitted to be bare.

(d) Articles 334.10(3), (4) and (5) of the 2016 Edition of the California Electrical Code are hereby deleted.

SECTION 22: The 2006 Edition of the International Code Council Electrical Code Administrative Provisions is hereby amended as follows:

(a) Section 303.1 of the 2006 Edition of the International Code Council Electrical Code Administrative provisions is hereby amended to read as follows:

Sec 303.1 Use and Occupancy. No building or structure shall be used or occupied until a certificate of occupancy has been provided in accordance with the California Building Codes as amended by the City

of Vernon.

(b) Section 402.6 is hereby added to the 2006 Edition of the International Code Council Electrical Code Administrative Provisions to read as follows:

Sec. 402.6 Responsibility of permittee. Building permits shall be presumed to incorporate the provision, that the applicant, the applicant's agent, employees or contractors shall carry out the proposed work in accordance with the approved plans and with all the requirements of this code and any other law or regulations applicable thereto, whether specified or not. No approval shall exonerate any such person from the responsibility of complying with the provisions or intent of this code.

(c) Section 402.7 of the 2006 Edition of the International Code Council Electrical Code Administrative provisions is hereby added to read as follows:

Sec 402.7 Utility Notification. An applicant for an electrical installation that will require an increase in the amount of power supply to the electrical service by more than 50 amps shall notify the Vernon Gas & Electric Department of the additional new load.

(d) Section 402.8 of the 2006 Edition of the International Code Council Electrical Code Administrative provisions is hereby added to read as follows:

Sec 402.8 Energizing Electrical Equipment. No person shall energize or use any electrical equipment until it has been inspected and approved by the City.

(e) Section 404.2 of the 2006 Edition of the International Code Council Electrical Code Administrative provisions is hereby amended to read as follows:

Sec. 404.2 Electrical permit fees. Electrical permit fees shall be set forth in a fee schedule adopted by resolution of the City Council. A reinspection fee may be assessed for each inspection or reinspection when such portion of the work for which an inspection is called is not complete or when corrections called for are not made. Reinspection fees may be assessed when the inspection record card is not posted or otherwise available at the work site, the approved plans are not readily available to the inspector, for failure to provide access on the date and time for which the inspection is requested, or for deviating from the plans requiring the approval of the building official. In instances where reinspection fees have been assessed, the city may deny additional inspection of the work until the required fees are paid.

(f) Section 1102 of the 2006 Edition of the International Code Council Electrical Code Administrative provisions is hereby deleted.

(g) Section 1201.3 of the 2006 Edition of the International Code Council Electrical Code Administrative provisions is hereby amended to read as follows:

Sec 1201.3 Appliance and fixture listing. All electrical equipment installed or used shall be listed and labeled by a City approved recognized testing agency. All equipment shall be installed in conformance with all instructions included as part of the listing.

SECTION 23: Section 24.20 of Article IV of Chapter 24, Building and Construction, of the Code of the City of Vernon is hereby amended to read as follows:

Sec. 24.20. 2016 California Mechanical Code adopted. The City of Vernon hereby adopts by reference the 2016 California Mechanical

Code, as published by the California Building Standards Commission, California Code of Regulations, Title 24, Part 4, including all of its tables, indices, appendices, addenda and footnotes. Except as otherwise provided herein, or as later amended, said California Mechanical Code is hereby referred to and by such reference is incorporated herein as if fully set forth.

SECTION 24: Section 24.21 of Article IV of Chapter 24, Building and Construction, of the Code of the City of Vernon is hereby amended to read as follows:

Sec. 24.21. Mechanical Code amendments, additions, and deletions.

(a) Section 104.6 is hereby added to Chapter 1 of the 2016 Edition of the California Mechanical Code to read as follows:

104.6 Responsibility of permittee. Building permits shall be presumed to incorporate the provision, that the applicant, the applicant's agent, employees or contractors shall carry out the proposed work in accordance with the approved plans and with all the requirements of the code and any other law or regulations applicable thereto, whether specified or not. No approval shall exonerate any person from the responsibility of complying with the provisions or intent of the code.

(b) Table 114.1 of the 2016 Edition of the California Mechanical Code is hereby amended to read as follows:

Table 114.1

MECHANICAL PERMIT FEES:

Mechanical permit fees shall be set forth in a fee schedule adopted by resolution of the City Council.

SECTION 25: Section 24.25 of Article V of Chapter 24,

Building and Construction, of the Code of the City of Vernon is hereby amended to read as follows:

Sec. 24.25. 2016 California Plumbing Code adopted. The City of Vernon hereby adopts by reference the 2016 California Plumbing Code, as published by the California Building Standards Commission, California Code of Regulations, Title 24, Part 5, including all of its tables, indices, appendices, addenda and footnotes. Except as otherwise provided herein, or as later amended, said California Plumbing Code is hereby referred to and by such reference is incorporated herein as if fully set forth.

SECTION 26: Section 24.26 of Article V of Chapter 24, Building and Construction, of the Code of the City of Vernon is hereby amended to read as follows:

Sec. 24.26. Plumbing Code amendments, additions, and deletions. The 2016 California Plumbing Code is amended as follows:

(a) Section 104.6 is hereby added to Chapter 1 of the 2016 Edition of the California Plumbing Code to read as follows:

104.6 Responsibility of Permittee. Building permits shall be presumed to incorporate the provision, that the applicant, the applicant's agent, employees or contractors shall carry out the proposed work in accordance with the approved plans and with all the requirements of the code and any other law or regulations applicable thereto, whether specified or not. No approval shall exonerate any person from the responsibility of complying with the provisions or intent of the code.

(b) Table 104.5 of the 2016 Edition of the California Plumbing Code is hereby amended to read as follows:

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Table 104.5.

PLUMBING PERMIT FEES:

Plumbing permit fees shall be set forth in a fee schedule adopted by resolution of the City Council.

(c) Table 422.1 of the 2016 Edition of the California Plumbing Code is hereby amended to add the following sentence after the third paragraph:

If the actual number of expected occupants at the facility exceed the number of occupants provided in Table A, the number of plumbing facilities shall be determined based on the actual occupant load. Except that the number of lavatories for a garment manufacturing facility shall be one lavatory for every 15 employees of each sex.

(d) Section 1101.2 of the 2016 Edition of the California Plumbing Code is hereby amended to read as follows:

1101.2 Where Required. Yard drainage piping and onsite storm drain systems that connects to a public storm drainage systems shall be installed in accordance with this chapter, approved public works standards and the provisions of Chapter 21 of the City Code. Prior to construction of any storm drain system, complete plans and hydraulic calculations shall be approved by the agency whose storm drainage system is to be impacted by the proposed system. Storm water shall flow away from buildings and adjoining properties.

SECTION 27: Section 24.60 of Article IX of Chapter 24, Building and Construction, of the Code of the City of Vernon, is hereby amended as follows:

Sec. 24.60. 2016 California Existing Building Code adopted. The City of Vernon hereby adopts by reference Appendix Chapter A1 of the 2016 California Existing Building Code, as published by the

California Building Standards Commission, California Code of Regulations, Title 24, Part 10, including the tables, indices, appendices, addenda and footnotes contained therein as the seismic strengthening provisions for unreinforced masonry bearing wall buildings for the City of Vernon. Except as otherwise provided herein, or as later amended, said California Existing Building Code is hereby referred to and by such reference is incorporated herein as if fully set forth.

SECTION 28: Section 24.64 of Article IX of Chapter 24, Building and Construction, of the Code of the City of Vernon, is hereby amended as follows:

Sec. 24.64. Chapter A2 and A5 of the 2015 International Existing Building Code adopted. Chapter A2 of the 2015 International Existing Building Code, published by the International Code Council, Inc., is hereby adopted as the minimum standard for seismic strengthening of tilt-up concrete wall buildings, and Chapter A5 of the 2015 International Existing Building Code, published by the International Code Council, is hereby adopted as the minimum standard for seismic strengthening of concrete buildings. These standards are established as a minimum guideline for those property owners voluntarily selecting to retrofit their structures and shall not be construed as the City of Vernon mandated program. Except as otherwise provided herein, or as later amended, said 2015 International Existing Building Code® is hereby referred to and by such reference is incorporated herein as if fully set forth.

SECTION 29: Section 24.76 of Article XI of Chapter 24, Building and Construction, of the Code of the City of Vernon is hereby amended as follows:

Sec. 24.76. The 2015 Edition of the International Existing Building Code adopted, repair criteria. The 2015 Edition of the International Existing Building Code, published by the International Code Council, Inc., subject however, to the amendments, additions and deletions set forth in this article, is hereby adopted by reference as the Repair Criteria of the City of Vernon relating to disaster repair and reconstruction.

SECTION 30: Section 24.77 of Article XI of Chapter 24, Building and Construction, of the Code of the City of Vernon is hereby amended to read as follows:

Sec. 24.77. International Existing Building Code amendments, additions and deletions.

The 2015 International Existing Building Code is amended as follows:

(a) International Existing Building Code Section 202 is hereby amended to add the following definitions in alphabetical order:

International Building Code - shall mean the California Building Code as amended by the City of Vernon.

Uncontrollable Event - shall mean an act of god including a seismic event, flood, fire, tsunami or other natural disaster beyond the control of the property owner.

(b) International Existing Building Code Appendix A Chapter A1 is hereby amended to read as follows:

Appendix A Chapter A1

Seismic Strengthening Provisions for Unreinforced Masonry Bearing Wall Buildings.

Section A 101 General - All damaged unreinforced masonry buildings and structures shall be repaired and strengthened in

accordance with the California Existing Building Code adopted in Section 24.60.

SECTION 31: Section 24.104 of Article XIII of Chapter 24, Building and Construction, of the Code of the City of Vernon is amended to read as follows:

Sec. 24.104. 2016 California Residential Code adopted. The City of Vernon hereby adopts by reference the 2016 California Residential Code and Appendix V thereof, as published by the California Building Standards Commission, California Code of Regulations, Title 24, Part 2.5, including all tables, indices, addenda and footnotes. Except as otherwise provided herein, or as later amended, said California Residential Code is hereby referred to and by such reference is incorporated herein as if fully set forth.

SECTION 32: Section 24.105 of Article XIII of Chapter 24, Building and Construction, of the Code of the City of Vernon is amended to read as follows:

Sec. 24.105. Residential Code amendments, additions, and deletions. The 2016 Residential Code is amended as follows:

(a) Section R105.8 of the 2016 Edition of the California Residential Code is hereby amended to read as follows:

R105.8 Responsibility of permittee. Building permits shall be presumed to incorporate the provision, that the applicant, the applicant's agent, employees or contractors shall carry out the proposed work in accordance with the approved plans and with all the requirements of the code and any other law or regulations applicable thereto, whether specified or not. No approval shall exonerate any person from the responsibility of complying with the provisions or intent of the code.

(b) Section R108.7 is hereby added to Chapter 1 of the 2016 Edition of the California Residential Code to read as follows:

R108.7 Reinspection. A reinspection fee may be assessed for each inspection or reinspection when such portion of the work for which an inspection is called is not complete or when corrections called for are not made.

Reinspection fees may be assessed when the inspection record card is not posted or otherwise available at the work site, the approved plans are not readily available to the inspector, for failure to provide access on the date and time for which the inspection is requested, or for deviating from the plans requiring the approval of the building official.

In instances where reinspection fees have been assessed, the city may deny additional inspection of the work until the required fees are paid.

(c) Section R301.1.3.2 of the 2016 Edition of the California Residential Code is hereby amended to read as follows:

R301.1.3.2 Woodframe structures. The building official shall require construction documents to be approved and stamped by a California licensed architect or engineer for all dwellings of woodframe construction more than two stories and basement in height located in Seismic Design Category A, B or C. Notwithstanding other sections of law; the law establishing these provisions is found in Business and Professions Code Section 5537 and 6737.1.

The building official shall require construction documents to be approved and stamped by a California licensed architect or engineer for all dwellings of woodframe construction more than one story in height or with a basement located in Seismic Design Category D₀, D₁, D₂

or E.

(d) Section R301.1.4 is hereby added to Chapter 3 of the 2016 Edition of the California Residential Code to read as follows:

R301.1.4 Seismic design provisions for buildings constructed on or into slopes steeper than one unit vertical in three units horizontal (33.3 percent slope). The design and construction of new buildings and additions to existing buildings when constructed on or into slopes steeper than one unit vertical in three units horizontal (33.3 percent slope) shall comply with Section 1613.9 of the Building Code.

(e) Items 1, 3 and 5 of Section R301.2.2.2.5 of the 2016 Edition of the California Residential Code are amended to read as follows:

1. When exterior shear wall lines or braced wall panels are not in one plane vertically from the foundation to the uppermost story in which they are required.
3. When the end of a braced wall panel occurs over an opening in the wall below.
5. When portions of a floor level are vertically offset.

(f) Section R301.2.2.3.8 is added to Chapter 3 of the 2016 Edition of the California Residential Code to read as follows:

R301.2.2.3.8 Anchorage of Mechanical, Electrical, or Plumbing Components and Equipment. Mechanical, electrical, or plumbing components and equipment shall be anchored to the structure. Anchorage of the components and equipment shall be designed to resist loads in accordance with the International Building Code and ASCE 7, except where the component is positively attached to the structure and flexible connections are provided between the component and associated

ductwork, piping, and conduit; and either

1. The component weighs 400 lb (1,780 N) or less and has a center of mass located 4 ft (1.22 m) or less above the supporting structure; or
2. The component weighs 20 lb (89N) or less or, in the case of a distributed system, 5 lb/ft (73 N/m) or less.

(g) Section R401.1 of the 2016 Edition of the California Residential Code is hereby amended to read as follows:

R401.1 Application. The provisions of this chapter shall control the design and construction of the foundation and foundation spaces for all buildings. In addition to the provisions of this chapter, the design and construction of foundations in areas prone to flooding as established by Table R301.2(1) shall meet the provisions of Section R322. Wood foundations shall be designed and installed in accordance with AWC PWF.

Exception: The provisions of this chapter shall be permitted to be used for wood foundations only in the following situations:

1. In buildings that have no more than two floors and a roof.
2. When interior basement and foundation walls are constructed at intervals not exceeding 50 feet (15 240 mm).

Wood foundations in Seismic Design Category D₀, D₁ or D₂ shall not be permitted.

Exception: In non-occupied, single-story, detached storage sheds and similar uses other than carport or garage, provided the gross floor area does not exceed 200 square feet, the plate height does not exceed 12 feet in height above the grade plane at any point, and the

maximum roof projection does not exceed 24 inches.

(h) Section R403.1.2 of the 2016 Edition of the California Residential Code is hereby amended to read as follows:

R403.1.2 Continuous footing in Seismic Design Categories D₀, D₁ and D₂. Exterior walls of buildings located in Seismic Design Categories D₀, D₁ and D₂ shall be supported by continuous solid or fully grouted masonry or concrete footings. All required interior braced wall panels in buildings located in Seismic Design Categories D₀, D₁ and D₂ shall be supported on continuous foundations.

(i) Section R403.1.3.6 of the 2016 Edition of the California Residential Code is hereby amended to read as follows:

R403.1.3.6 Isolated concrete footings. In detached one- and two-family dwellings located in Seismic Design Category A, B, or C that are three stories or less in height and constructed with stud bearing walls, isolated plain concrete footings supporting columns or pedestals are permitted.

(j) Section R403.1.5 of the 2016 Edition of the California Residential Code is hereby amended to read as follows:

R403.1.5 Slope. The top surface of footings shall be level. The bottom surface of footings shall not have a slope exceeding one unit vertical in 10 units horizontal (10-percent slope). Footings shall be stepped where it is necessary to change the elevation of the top surface of the footings or where the slope of the bottom surface of the footings will exceed one unit vertical in 10 units horizontal (10-percent slope).

For structures located in Seismic Design Categories D₀, D₁ and D₂, stepped footings shall be reinforced with four No. 4 rebar. Two bars shall be placed at the top and bottom of the footings as shown in

Figure R403.1.5.

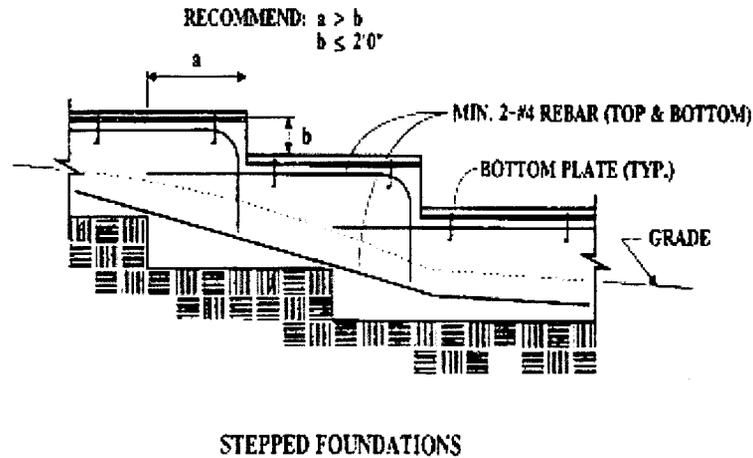


FIGURE R403.1.5
STEPPED FOOTING

(k) Section R404.2 of the 2016 Edition of the California Residential Code is amended to read as follows:

R404.2 Wood foundation walls. Wood foundation walls shall be constructed in accordance with the provisions of Sections R404.2.1 through R404.2.6 and with the details shown in Figures R403.1(2) and R403.1(3). Wood foundation walls shall not be used for structures located in Seismic Design Category D_0 , D_1 or D_2 .

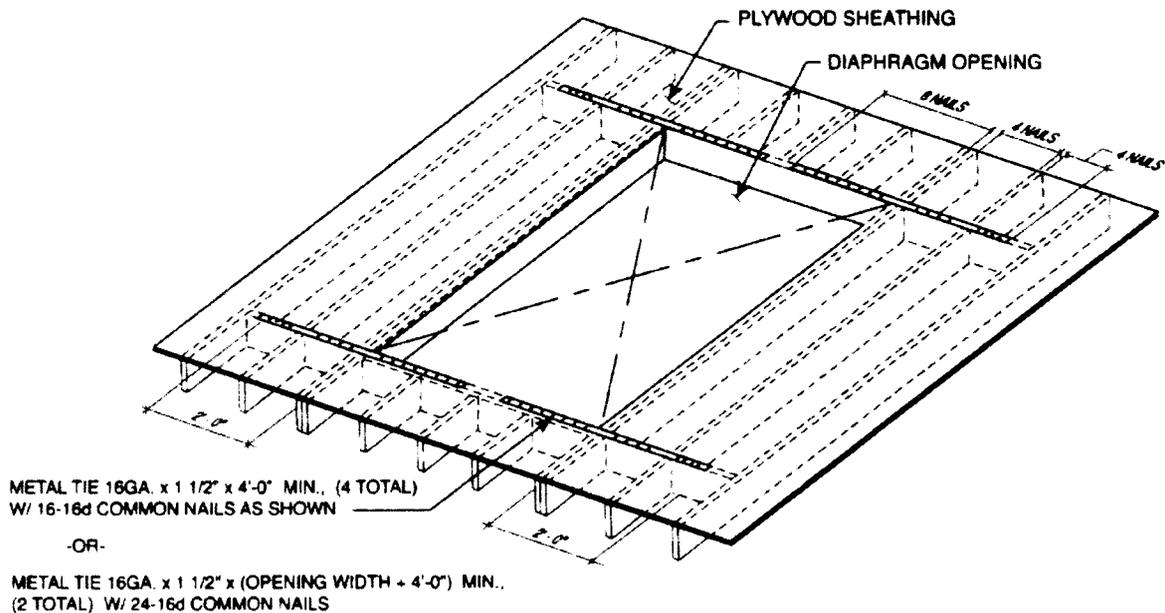
(l) Section R501.1 of the 2016 Edition of the California Residential Code is hereby amended to read as follows:

R501.1 Application. The provisions of this chapter shall control the design and construction of the floors for all buildings including the floors of attic spaces used to house mechanical or plumbing fixtures and equipment. Mechanical or plumbing fixtures and equipment shall be attached (or anchored) to the structure in accordance with Section R301.2.2.3.8.

(m) Section R503.2.4 is added to Chapter 5 of the 2016

Edition of the California Residential Code to read as follows:

R503.2.4 Openings in horizontal diaphragms. Openings in horizontal diaphragms with a dimension perpendicular to the joist that is greater than 4 feet (1.2 m) shall be constructed in accordance with Figure R503.2.4.



For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm

- a. Blockings shall be provided beyond headers.
- b. Metal ties not less than 0.058 inch [1.47 mm (16 galvanized gage)] by 1.5 inches (38 mm) wide with eight 16d common nails on each side of the header-joist intersection. The metal ties shall have a minimum yield of 33,000 psi (227 MPa).
- c. Openings in diaphragms shall be further limited in accordance with Section R301.2.2.2.5.

FIGURE R503.2.4
OPENINGS IN HORIZONTAL DIAPHRAGMS

**TABLE 602.3(1)
FASTENING SCHEDULE—continued**

ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER ^{a, b, c}	SPACING AND LOCATION	
Floor				
24	2" subfloor to joist or girder	3-16d box (3 1/2" > 0.135"); or 2-16d common (3 1/2" > 0.162")	Blind and face nail	
25	2" planks (plank & beam—floor & roof)	3-16d box (3 1/2" > 0.135"); or 2-16d common (3 1/2" > 0.162")	At each bearing, face nail	
26	Band or rim joist to joist	3-16d common (3 1/2" > 0.162") 4-10 box (3" > 0.128"), or 4-3" > 0.131" nails; or 4-3" > 14 ga. staples, 1/16" crown	End nail	
27	Built-up girders and beams, 2-inch lumber layers	20d common (4" > 0.192"); or	Nail each layer as follows: 32" o.c. at top and bottom and staggered.	
		10d box (3" > 0.128"); or 3" > 0.131" nails	24" o.c. face nail at top and bottom staggered on opposite sides	
		And: 2-20d common (4" > 0.192"); or 3-10d box (3" > 0.128"); or 3-3" > 0.131" nails	Face nail at ends and at each splice	
28	Ledger strip supporting joists or rafters	4-16d box (3 1/2" > 0.135"), or 3-16d common (3 1/2" > 0.162") or 4-10d box (3" > 0.128"); or 4-3" > 0.131" nails	At each joist or rafter, face nail	
29	Bridging to joist	2-10d (3" > 0.128")	Each end, toe nail	
ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER ^{a, b, c}	SPACING OF FASTENERS	
			Edges (inches) ^d	Intermediate supports ^{e, f} (inches)
Wood structural panels, subfloor, roof and interior wall sheathing to framing and particleboard wall sheathing to framing (see Table R602.3(3) for wood structural panel exterior wall sheathing to wall framing)				
30	3/8" - 1/2"	6d common (2" > 0.113") nail (subfloor, wall) ¹ 8d common (2 1/2" > 0.131") nail (roof)	6	12 ^f
31	10/32" - 1"	8d common nail (2 1/2" > 0.131")	6	12 ^f
32	1 1/8" - 1 1/4"	10d common (3" > 0.148") nail, or 8d (2 1/2" > 0.131") deformed nail	6	12
Other wall sheathing^g				
33	1/2" structural cellulosic fiberboard sheathing	1 1/2" galvanized roofing nail, 1/16" head diameter, or 1" crown staple 16 ga., 1 1/4" long	3	6
34	20/32" structural cellulosic fiberboard sheathing	1 3/4" galvanized roofing nail, 1/16" head diameter, or 1" crown staple 16 ga., 1 1/4" long	3	6
35 ^h	1/2" gypsum sheathing ^d	1 1/2" galvanized roofing nail; staple galvanized, 1 1/2" long; 1 1/4" screws, Type W or S	7	7
36 ^h	5/8" gypsum sheathing ^d	1 3/4" galvanized roofing nail; staple galvanized, 1 3/8" long; 1 3/8" screws, Type W or S	7	7
Wood structural panels, combination subfloor underlayment to framing				
37	3/4" and less	6d deformed (2" > 0.120") nail; or 8d common (2 1/2" > 0.131") nail	6	12
38	7/8" - 1"	8d common (2 1/2" > 0.131") nail; or 8d deformed (2 1/2" > 0.120") nail	6	12
39	1 1/8" - 1 1/4"	10d common (3" > 0.148") nail; or 8d deformed (2 1/2" > 0.120") nail	6	12

For SF: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 mile per hour = 0.447 m/s; 1 ksi = 6.895 MPa

**TABLE R602.3(1)—continued
FASTENING SCHEDULE**

- a. Nails are smooth common, box or deformed shanks except where otherwise stated. Nails used for framing and sheathing connections shall have minimum average bending yield strengths as shown: 80 ksi for shank diameter of 0.192 inch (20d common nail), 90 ksi for shank diameters larger than 0.142 inch but not larger than 0.177 inch, and 100 ksi for shank diameters of 0.142 inch or less.
- b. Staples are 16 gage wire and have a minimum 7/16-inch on diameter crown width.
- c. Nails shall be spaced at not more than 6 inches on center at all supports where spans are 48 inches or greater.
- d. Four-foot by 8-foot or 4-foot by 9-foot panels shall be applied vertically.
- e. Spacing of fasteners not included in this table shall be based on Table R602.3(2).
- f. Where the ultimate design wind speed is 130 mph or less, nails for attaching wood structural panel roof sheathing to gable end wall framing shall be spaced 6 inches on center. Where the ultimate design wind speed is greater than 130 mph, nails for attaching panel roof sheathing to intermediate supports shall be spaced 6 inches on center for minimum 48-inch distance from ridges, eaves and gable end walls, and 4 inches on center to gable end wall framing.
- g. Gypsum sheathing shall conform to ASTM C 1396 and shall be installed in accordance with GA 253. Fiberboard sheathing shall conform to ASTM C 208.
- h. Spacing of fasteners on floor sheathing panel edges applies to panel edges supported by framing members and required blocking and at floor perimeters only. Spacing of fasteners on roof sheathing panel edges applies to panel edges supported by framing members and required blocking. Blocking of roof or floor sheathing panel edges perpendicular to the framing members need not be provided except as required by other provisions of this code. Floor perimeter shall be supported by framing members or solid blocking.
- i. Where a rafter is fastened to an adjacent parallel ceiling joist in accordance with this schedule, provide two toe nails on one side of the rafter and toe nails from the ceiling joist to top plate in accordance with this schedule. The toe nail on the opposite side of the rafter shall not be required.
- j. Use of staples in braced wall panels shall be prohibited in Seismic Design Category D₀, D₁, or D₂.

(o) Footnote "b" of Table R602.3(2) of the 2016 Edition of the California Residential Code is amended to read as follows:

b. Staples shall have a minimum crown width of 7/16-inch on diameter except as noted. Use of staples in roof, floor, subfloor, and braced wall panels shall be prohibited in Seismic Design Category D₀, D₁, or D₂.

(p) Table R602.10.3(3) of the 2016 Edition of the California Residential Code are hereby amended to read as follows:

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**TABLE R602.10.3(3)
BRACING REQUIREMENTS BASED ON SEISMIC DESIGN CATEGORY**

<ul style="list-style-type: none"> • SOIL CLASS D^b • WALL HEIGHT = 10 FEET • 10 PSF FLOOR DEAD LOAD • 15 PSF ROOF/CEILING DEAD LOAD • BRACED WALL LINE SPACING = 25 FEET 			MINIMUM TOTAL LENGTH (FEET) OF BRACED WALL PANELS REQUIRED ALONG EACH BRACED WALL LINE ^d				
Seismic Design Category	Story Location	Braced Wall Line Length (feet) ^c	Method LIB ^d	Method GB ^f	Methods DWB, SFB, PBS, PCP, HPS, CS-SFB ^{e,f}	Method WSP	Methods CS-WSP, CS-G
C (townhouses only)		10	2.5	2.5	2.5	1.6	1.4
		20	5.0	5.0	5.0	3.2	2.7
		30	7.5	7.5	7.5	4.8	4.1
		40	10.0	10.0	10.0	6.4	5.4
		50	12.5	12.5	12.5	8.0	6.8
		10	NP	4.5	4.5	3.0	2.6
		20	NP	9.0	9.0	6.0	5.1
		30	NP	13.5	13.5	9.0	7.7
		40	NP	18.0	18.0	12.0	10.2
		50	NP	22.5	22.5	15.0	12.8
		10	NP	6.0	6.0	4.5	3.8
		20	NP	12.0	12.0	9.0	7.7
		30	NP	18.0	18.0	13.5	11.5
		40	NP	24.0	24.0	18.0	15.3
		50	NP	30.0	30.0	22.5	19.1
D ₀		10	NP	2.8 5.6	2.8 5.6	1.8	1.6
		20	NP	5.5 11.0	5.5 11.0	3.6	3.1
		30	NP	8.3 16.6	8.3 16.6	5.4	4.6
		40	NP	11.0 22.0	11.0 22.0	7.2	6.1
		50	NP	13.8 27.6	13.8 27.6	9.0	7.7
		10	NP	5.3 NP	5.3 NP	3.8	3.2
		20	NP	10.5 NP	10.5 NP	7.5	6.4
		30	NP	15.8 NP	15.8 NP	11.3	9.6
		40	NP	21.0 NP	21.0 NP	15.0	12.8
		50	NP	26.3 NP	26.3 NP	18.8	16.0
		10	NP	7.3 NP	7.3 NP	5.3	4.5
		20	NP	14.5 NP	14.5 NP	10.5	9.0
		30	NP	21.8 NP	21.8 NP	15.8	13.4
		40	NP	29.0 NP	29.0 NP	21.0	17.9
		50	NP	36.3 NP	36.3 NP	26.3	22.3

(continued)

**TABLE R602.10.3(3)-continued
BRACING REQUIREMENTS BASED ON SEISMIC DESIGN CATEGORY**

<ul style="list-style-type: none"> • SOIL CLASS D^b • WALL HEIGHT = 10 FEET • 10 PSF FLOOR DEAD LOAD • 15 PSF ROOF/CEILING DEAD LOAD • BRACED WALL LINE SPACING = 25 FEET 			MINIMUM TOTAL LENGTH (FEET) OF BRACED WALL PANELS REQUIRED ALONG EACH BRACED WALL LINE ^d				
Seismic Design Category	Story Location	Braced Wall Line Length (feet) ^c	Method LIB ^d	Method GB ^e	Methods DWB, SFB, PBS, PCP, HPS, CS-SFB ^{e,j}	Method WSP	Methods CS-WSP, CS-G
D ₁		10	NP	3.0 6.0	3.0 6.0	2.0	1.7
		20	NP	6.0 12.0	6.0 12.0	4.0	3.4
		30	NP	9.0 18.0	9.0 18.0	6.0	5.1
		40	NP	12.0 24.0	12.0 24.0	8.0	6.8
		50	NP	15.0 30.0	15.0 30.0	10.0	8.5
		10	NP	6.0 NP	6.0 NP	4.5	3.8
		20	NP	12.0 NP	12.0 NP	9.0	7.7
		30	NP	18.0 NP	18.0 NP	13.5	11.5
		40	NP	24.0 NP	24.0 NP	18.0	15.3
		50	NP	30.0 NP	30.0 NP	22.5	19.1
		10	NP	8.5 NP	8.5 NP	6.0	5.1
		20	NP	17.0 NP	17.0 NP	12.0	10.2
		30	NP	25.5 NP	25.5 NP	18.0	15.3
		40	NP	34.0 NP	34.0 NP	24.0	20.4
		50	NP	42.5 NP	42.5 NP	30.0	25.5
D ₂		10	NP	4.0 8.0	4.0 8.0	2.5	2.1
		20	NP	8.0 16.0	8.0 16.0	5.0	4.3
		30	NP	12.0 24.0	12.0 24.0	7.5	6.4
		40	NP	16.0 32.0	16.0 32.0	10.0	8.5
		50	NP	20.0 40.0	20.0 40.0	12.5	10.6
		10	NP	7.5 NP	7.5 NP	5.5	4.7
		20	NP	15.0 NP	15.0 NP	11.0	9.4
		30	NP	22.5 NP	22.5 NP	16.5	14.0
		40	NP	30.0 NP	30.0 NP	22.0	18.7
		50	NP	37.5 NP	37.5 NP	27.5	23.4
		10	NP	NP	NP	NP	NP
		20	NP	NP	NP	NP	NP
		30	NP	NP	NP	NP	NP
		40	NP	NP	NP	NP	NP
		50	NP	NP	NP	NP	NP
	Cripple wall below one- or two-story dwelling	10	NP	NP	NP	7.5	6.4
		20	NP	NP	NP	15.0	12.8
		30	NP	NP	NP	22.5	19.1
		40	NP	NP	NP	30.0	25.5
		50	NP	NP	NP	37.5	31.9

- a. Linear interpolation shall be permitted.
- b. Wall bracing lengths are based on a soil site class "D". Interpolation of bracing length between the S_d values associated with the seismic design categories shall be permitted when a site-specific S_d value is determined in accordance with Section 16.13.3 of the *International Building Code*.
- c. Where the braced wall line length is greater than 50 feet, braced wall lines shall be permitted to be divided into shorter segments having lengths of 50 feet or less, and the amount of bracing within each segment shall be in accordance with this table.
- d. Method LIB shall have gypsum board fastened to not less than one side with nails or screws in accordance with Table R602.3(1) for exterior sheathing or Table R702.3.5 for interior gypsum board. Spacing of fasteners at panel edges shall not exceed 8 inches.
- e. Method CS-SFB does not apply in Seismic Design Categories D₀, D₁ and D₂.
- f. Methods GB and PCP braced wall panel h/w ratio shall not exceed 1.1 in SDC D₀, D₁, or D₂. Methods DWB, SFB, PBS, and HPS are not permitted in SDC D₀, D₁, or D₂.

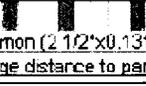
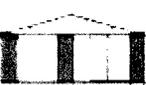
(q) Table R602.10.4 of the 2016 Edition of the California Residential Code is amended to read as follows:

**TABLE R602.10.4
BRACING METHODS^f**

METHODS, MATERIAL	MINIMUM THICKNESS	FIGURE	CONNECTION CRITERIA ^a	
			Fasteners	Spacing
LIB Let-it-bracing	1 x 4 wood or approved metal straps at 45° to 60° angles for maximum 16" stud spacing		Wood: 2-8d common nails or 3-8d (2 1/2" long x 0.113" dia.) nails	Wood: per stud and top and bottom plates
			Metal strap: per manufacturer	Metal: per manufacturer
DWB Diagonal wood boards	1/2" (1" nominal) for maximum 24" stud spacing		2-8d (2 1/2" long x 0.113" dia.) nails or 2 x 1 1/2" long staples	Per stud
WSP Wood structural panel (See Section R604)	3/8"		8d common (2 1/2" x 0.131") nails 3/8" edge distance to panel edge Table R602.3(1)	6" edges 12" field
			8d common (2 1/2" x 0.131") nails 3/8" edge distance to panel edge Table R602.3(1) or R602.3(2)	Varies by fastener 6" edges 12" field
BV-WSP Wood Structural Panels with Stone or Masonry Veneer (See Section R602.10.6.5)	7/16"	See Figure R602.10.6.5	8d common (2 1/2" x 0.131") nails	4" at panel edges 12" at intermediate supports 4" at braced wall panel end posts
SFB Structural fiberboard sheathing	1/2" or 5/8" for maximum 16" stud spacing		1 1/2" long x 0.12" dia. (for 1/4" thick sheathing) or 1 1/2" long x 0.12" dia. (for 5/8" thick sheathing) galvanized roofing nails or 8d common (2 1/2" long x 0.131" dia.) nails	3" edges 6" field
GB Gypsum board	1/2"		Nails or screws per Table R602.3(1) for exterior locations	For all braced wall panel locations: 7" edges (including top and bottom plates) 7" field
			Nails or screws per Table R702.3.5 for interior locations	
PBS Particleboard sheathing (See Section R605)	3/8" or 1/2" for maximum 16" stud spacing		For 3/8", 6d common (2" long x 0.113" dia.) nails For 1/2", 8d common (2 1/2" long x 0.131" dia.) nails	3" edges 6" field
PCP Portland cement plaster	See Section R703.6 for maximum 16" stud spacing		1 1/2" long, 11 gage, 1/16" dia. head nails or 7/8" long, 16 gage staples ^g	6" o.c. on all framing members
HPS Hardboard panel siding	1/8" for maximum 16" stud spacing		0.002" dia., 0.225" dia. head nails with length to accommodate 1 1/2" penetration into studs	4" edges 8" field
ABW Alternate braced wall	3/8"		See Section R602.10.6.1	See Section R602.10.6.1

(continued)

**TABLE R602.10.4-continued
BRACING METHODS^f**

METHODS, MATERIAL		MINIMUM THICKNESS	FIGURE	CONNECTION CRITERIA ^a	
				Fasteners	Spacing
Intermittent Bracing Methods	PFH Portal frame with hold-downs	$\frac{7}{8}$ "		See Section R602.10.6.2	See Section R602.10.6.2
	PFG Portal frame at garage	$\frac{7}{16}$ "		See Section R602.10.6.3	See Section R602.10.6.3
Continuous Sheathing Methods	CS-WSP Continuously sheathed wood structural panel	$\frac{7}{8}$ " <u>15/32"</u>	 8d common (2 1/2" x 0.131") nails 3/8" edge distance to panel edge	Exterior sheathing per Table R602.3(3) Interior sheathing per Table R602.3(1) or R602.3(2)	6" edges 12" field Varies by fastener 6" edges 12" field
	CS-G^{1,2} Continuously sheathed wood structural panel adjacent to garage openings	$\frac{7}{8}$ " <u>15/32"</u>		See Method CS-WSP	See Method CS-WSP
	CS-PF Continuously sheathed portal frame	$\frac{7}{16}$ " <u>15/32"</u>		See Section R602.10.6.4	See Section R602.10.6.4
	CS-SFB⁴ Continuously sheathed structural fiberboard	$\frac{7}{8}$ " or $\frac{25}{16}$ " for maximum 16' stud spacing		1 1/2" long x 0.12" dia. (for $\frac{7}{8}$ " thick sheathing) 1 3/4" long x 0.12" dia. (for $\frac{25}{16}$ " thick sheathing) galvanized roofing nails or 8d common (2 1/2" long x 0.131" dia.) nails	3" edges 6" field

For SI: 1 inch = 25.4 mm; 1 foot = 305 mm; 1 degree = 0.0175 rad; 1 pound per square foot = 47.8 N/m²; 1 mile per hour = 0.447 m/s.

- Adhesive attachment of wall sheathing, including Method GB, shall not be permitted in Seismic Design Categories C, D₀, D₁ and D₂.
- Applies to panels next to garage door opening where supporting gable end wall or roof load only. Shall only be used on one wall of the garage. In Seismic Design Categories D₀, D₁ and D₂, roof covering dead load shall not exceed 3 psf.
- Garage openings adjacent to a Method CS-G panel shall be provided with a header in accordance with Table R602.5(1). A full-height clear opening shall not be permitted adjacent to a Method CS-G panel.
- Method CS-SFB does not apply in Seismic Design Categories D₀, D₁ and D₂.
- Method applies to detached one- and two-family dwellings in Seismic Design Categories D₁ through D₂ only.
- Methods GB and PCP braced wall panel h/w ratio shall not exceed 1:1 in SDC D₀, D₁, or D₂. Methods LIB, DWB, SFB, PBS, HPS, and PFG are not permitted in SDC D₀, D₁, or D₂.
- Use of staples in braced wall panels shall be prohibited in SDC D₀, D₁, or D₂.

(r) Figure R602.10.6.1 of the 2016 Edition of the California Residential Code is hereby amended to read as follows:

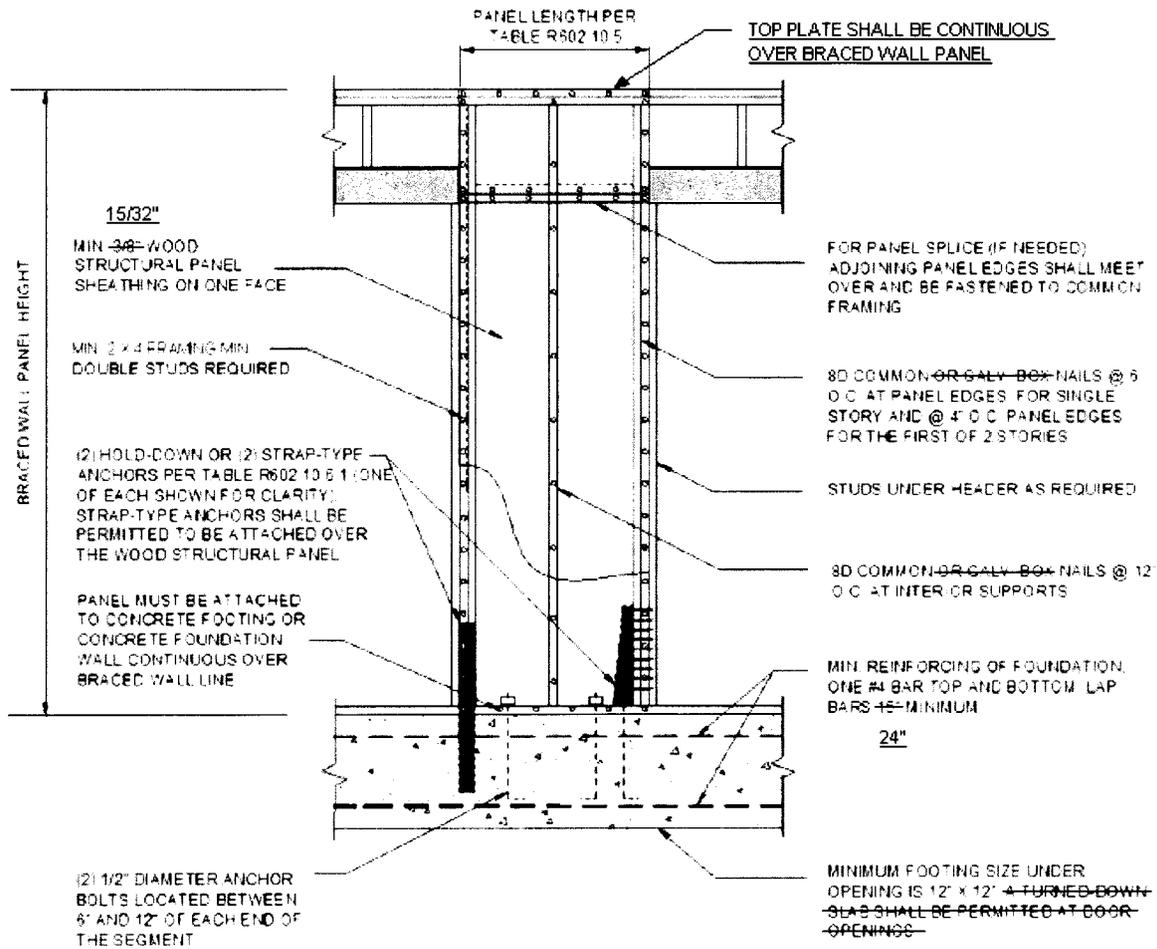
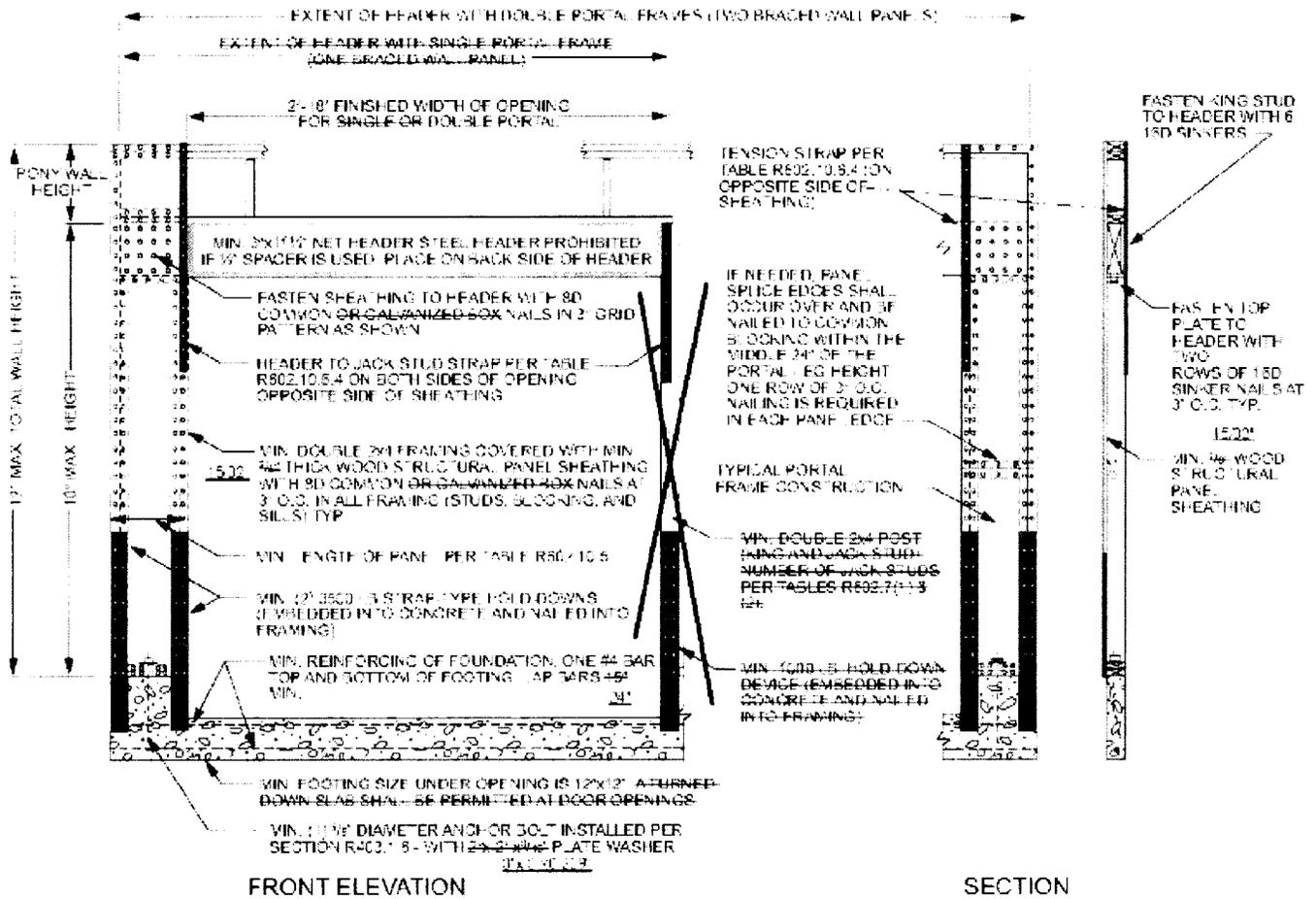


FIGURE R602.10.6.1
METHOD ABW—ALTERNATE BRACED WALL PANEL

(s) Figure R602.10.6.2 of the 2016 Edition of the California Residential Code is hereby amended to read as follows:

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For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

FIGURE R602.10.6.2
METHOD PFH—PORTAL FRAME WITH HOLD-DOWNS
AT DETACHED GARAGE DOOR OPENINGS

(t) Table R602.10.5 of the 2016 Edition of the California Residential Code is hereby amended to read as follows:

**TABLE R602.10.5
MINIMUM LENGTH OF BRACED WALL PANELS**

METHOD (See Table R602.10.4)		MINIMUM LENGTH ^a (inches)					CONTRIBUTING LENGTH (inches)
		Wall Height					
		8 feet	9 feet	10 feet	11 feet	12 feet	
DWE, WSP, SFB, PBS, PCP, HPS, BV, WSP		48	48	48	53	58	Actual ^b
GB		48	48	48	53	58	Double sided = Actual Single sided = 0.5 × Actual
LIB		55	62	69	NP	NP	Actual ^b
ABW	SDC A, B and C, ultimate design wind speed < 140 mph	28	32	34	38	42	48
	SDC D ₀ , D ₁ and D ₂ ultimate design wind speed < 140 mph	32	32	34	NP	NP	
PFH	Supporting roof only	46 24	46 24	46 24	49 24 ^c	50 24 ^c	48
	Supporting one story and roof	24	24	24	27 ^c	29 ^c	48
PFG		24	27	30	33 ^d	36 ^d	1.5 × Actual ^b
CS-C		24	27	30	33	36	Actual ^b
CS-PF	SDC A, B and C	16	18	20	22 ^e	24 ^e	1.5 × Actual ^b
	SDC D ₀ , D ₁ and D ₂	46 24	48 24	50 24	52 24 ^c	24 ^e	Actual ^b
CS-WSP, CS-SFB	Adjacent clear opening height (inches)						Actual ^b
	≤ 64	24	27	30	33	36	
	68	26	27	30	33	36	
	72	27	27	30	33	36	
	76	30	29	30	33	36	
	80	32	30	30	33	36	
	84	35	32	32	33	36	
	88	38	35	33	33	36	
	92	43	37	35	35	36	
	96	48	41	38	36	36	
	100	—	44	40	38	38	
	104	—	49	43	40	39	
	108	—	54	46	43	41	
	112	—	—	50	45	43	
	116	—	—	55	48	45	
	120	—	—	60	52	48	
	124	—	—	—	56	51	
	128	—	—	—	61	54	
	132	—	—	—	66	58	
	136	—	—	—	—	62	
140	—	—	—	—	66		
144	—	—	—	—	72		

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 mile per hour = 0.447 m/s
NP = Not Permitted.

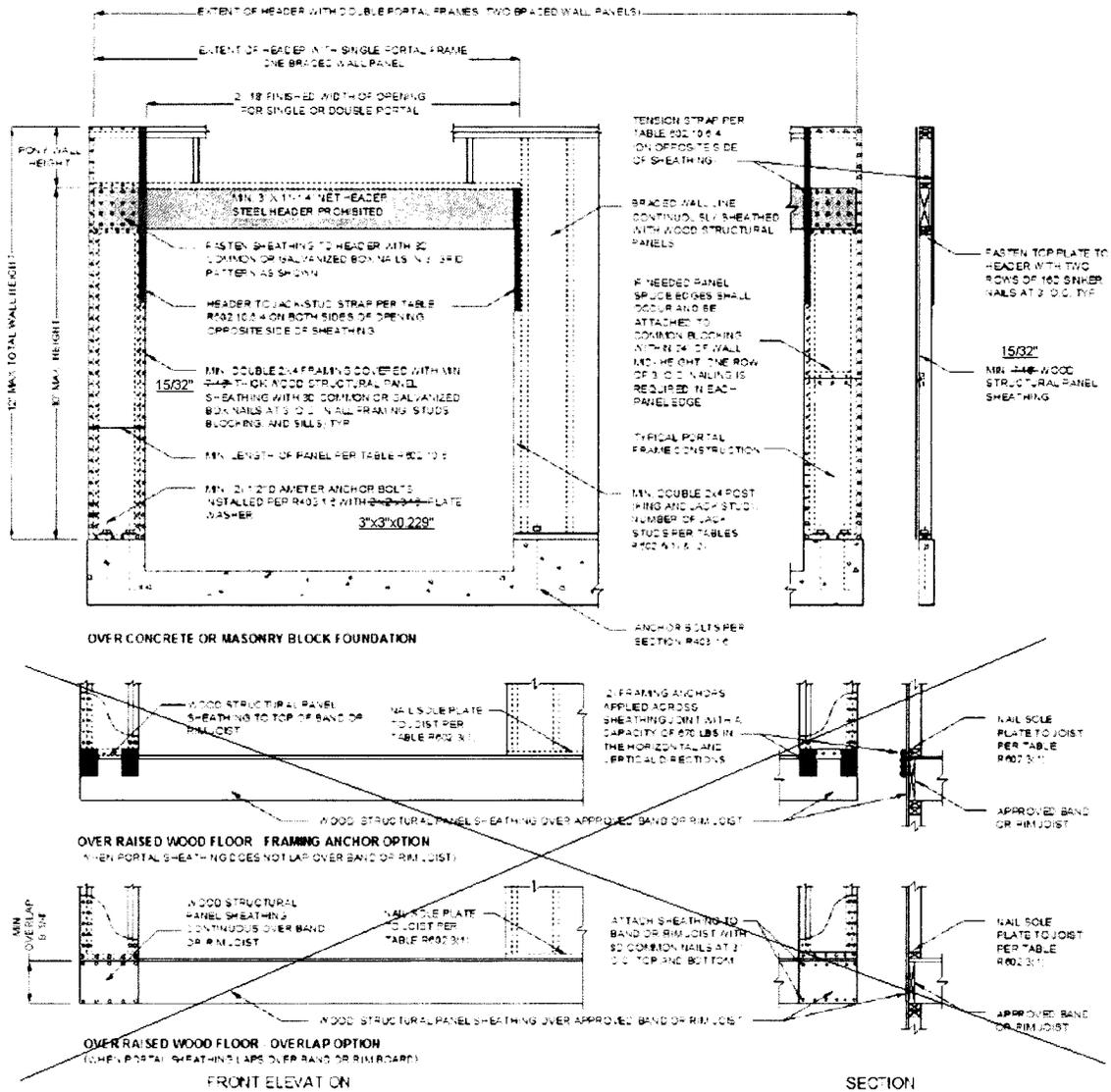
- a. Linear interpolation shall be permitted.
- b. Use the actual length where it is greater than or equal to the minimum length.
- c. Maximum header height for PEH is 10 feet in accordance with Figure R602.10.6.2, but wall height shall be permitted to be increased to 12 feet with pony wall.
- d. Maximum opening height for PFG is 10 feet in accordance with Figure R602.10.6.3, but wall height shall be permitted to be increased to 12 feet with pony wall.
- e. Maximum opening height for CS-PF is 10 feet in accordance with Figure R602.10.6.4, but wall height shall be permitted to be increased to 12 feet with pony wall.

(u) Section R602.10.2.3 of the 2016 Edition of the California Residential Code is hereby amended to read as follows:

R602.10.2.3 Minimum number of braced wall panels. Braced wall lines with a length of 16 feet (4877 mm) or less shall have a minimum of two braced wall panels of any length or one braced wall panel equal to 48 inches (1219 mm) or more. Braced wall lines greater than 16 feet (4877 mm) shall have a minimum of two braced wall panels. No braced wall panel shall be less than 48 inches in length in Seismic Design Category D₀, D₁, or D₂.

(v) Figure R602.10.6.4 of the 2016 Edition of the California Residential Code is hereby amended to read as follows:

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For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

FIGURE R602.10.6.4
METHOD CS-PF-CONTINUOUSLY SHEATHED PORTAL FRAME PANEL CONSTRUCTION

(w) Section R606.4.4 of the 2016 Edition of the California Residential Code is hereby amended to read as follows:

R606.4.4 Parapet walls. Unreinforced solid masonry parapet walls shall not be less than 8 inches (203 mm) thick and their height shall not exceed four times their thickness. Unreinforced hollow unit masonry parapet walls shall be not less than 8 inches (203 mm) thick, and their height shall not exceed three times their thickness. Masonry

parapet walls in areas subject to wind loads of 30 pounds per square foot (1.44 kPa) or located in Seismic Design Category D₀, D₁ or D₂, or on townhouses in Seismic Design Category C shall be reinforced in accordance with Section R606.12.

(x) Section R606.12.2.2.3 of the 2016 Edition of the California Residential Code is hereby amended to read as follows:

R606.12.2.2.3 Reinforcement requirements for masonry elements. Masonry elements listed in Section R606.12.2.2.2 shall be reinforced in either the horizontal or vertical direction as shown in Figure R606.11(3) and in accordance with the following:

1. Horizontal reinforcement. Horizontal joint reinforcement shall consist of at least one No. 4 bar spaced not more than 48 inches (1219 mm). Horizontal reinforcement shall be provided within 16 inches (406 mm) of the top and bottom of these masonry elements.

2. Vertical reinforcement. Vertical reinforcement shall consist of at least one No. 4 bar spaced not more than 48 inches (1219 mm). Vertical reinforcement shall be within 8 inches (406mm) of the ends of masonry walls.

(y) Exception to Section R602.3.2 of the 2016 Edition of the California Residential Code is hereby amended to read as follows:

Exception: In other than Seismic Design Category D₀, D₁ or D₂, a single top plate used as an alternative to a double top plate shall comply with the following:

1. The single top plate shall be tied at corners, intersecting walls, and at in-line splices in straight wall lines in accordance with Table R602.3.2.
2. The rafters or joists shall be centered over the studs with a tolerance of not more than 1 inch (25 mm).

SECTION 33: Section 24.106 of Article XIV, Chapter 24, Building and Construction, of the Code of the City of Vernon is amended to read as follows:

Sec. 24.106. 2016 California Green Building Standards Code adopted. The City of Vernon hereby adopts by reference the 2016 California Green Building Standards Code, also known as CALGreen Code, as published by the California Building Standards Commission, California Code of Regulations, Title 24, Part 11, including applicable tables, indices, appendices, addenda and footnotes. The voluntary provisions in Appendix Chapter A-4 and Chapter A-5 are not adopted as mandatory compliance features at this time. Except as otherwise provided herein, or as later amended, said California Green Building Standards Code is hereby referred to and by such reference is incorporated herein as if fully set forth and is hereby adopted by reference as the Green Building Standards Code of the City of Vernon.

SECTION 34: Section 24.107 of Article XIV, Chapter 24, Building and Construction, of the Code of the City of Vernon is amended to read as follows:

Sec. 24.107. Green Building Standards Code amendments, additions, and deletions.

The 2016 Edition of the California Green Building Standards Code is hereby amended as follows:

(a) Section 101.12 is hereby added to the 2016 California Green Building Standards Code to read as follows:

101.12 Green building standards permit fee. Green Building Standards permit fees shall be set forth in a fee schedule adopted by resolution of the City Council.

A reinspection fee may be assessed for each inspection or

reinspection when such portion of the work for which an inspection is called is not complete or when corrections called for are not made.

Reinspection fees may be assessed when the inspection record card is not posted or otherwise available at the work site, the approved plans are not readily available to the inspector, for failure to provide access on the date and time for which the inspection is requested, or for deviating from the plans requiring the approval of the building official.

In instances where reinspection fees have been assessed, the city may deny additional inspection of the work until the required fees are paid.

(b) The definition of "sustainability" is hereby added to Section 202 of the 2016 Edition of the California Green Building Standards Code in alphabetical order to read as follows:

SUSTAINABILITY. Consideration of present development and construction impacts on the community, the economy, and the environment without compromising the needs of the future.

(c) Section 301.1 of the 2016 Edition of the California Green Building Standards Code is hereby amended to read as follows:

301.1 Scope. Buildings shall be designed to include the green building measures specified as mandatory in this code. Voluntary green building measures are also included in this code and the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless they are adopted by a city or county as specified in Section 101.7.

(d) Section 301.1.1 of the 2016 Edition of the California Green Building Standards Code is hereby amended to read as follows:

301.1.1 Additions and alterations. [HCD] The mandatory

provisions of Chapter 4 shall be applied to additions or alterations of existing residential buildings. Code sections relevant to additions and alterations shall only apply to the portions of the building being added or altered within the scope of the permitted work.

Note: On and after January 1, 2014, residential buildings undergoing permitted alterations, additions or improvements shall replace noncompliant plumbing fixtures with water-conserving plumbing fixtures. Plumbing fixture replacement is required prior to issuance of a certificate of final completion, certificate of occupancy or final permit approval by the local building department. See Civil Code Section 1101.1, et seq., for the definition of a noncompliant plumbing fixture, types of residential buildings affected and other important enactment dates.

(e) Section 5.408.3 of the 2016 Edition of the California Green Building Standards Code is hereby amended to read as follows:

5.408.3 Excavated soil and land clearing debris [BSC] 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed.

Exception: Reuse, either on-or off-site, of vegetation or soil contaminated by disease or pest infestation.

Notes:

1. If contamination by disease or pest infestation is suspected, contact the County Agricultural Commissioner and follow its direction for recycling or disposal of the material. (www.cdfa.ca.gov/exec/county/county_contacts.html)

2. For a map of known pest and/or disease quarantine zones, consult with the California Department of Food and Agriculture. (www.cdffa.ca.gov)
3. Contaminated soil shall not be reused and shall be disposed of or remediated in accordance with relevant regulations.

(f) Section A4.105.2 of the 2016 Edition of the California Green Building Standards Code is hereby amended to read as follows:

A4.105.2 Reuse of materials. Use salvaged, refurbished or reused materials for a minimum of 2.5 percent of the total value, based on estimated cost of materials on the project. Materials which can be easily reused include but are not limited to the following:

1. Light fixtures
2. Plumbing fixtures
3. Doors and trim
4. Masonry (reused masonry may only be used for flatwork)
5. Electrical devices
6. Appliances
7. Foundations or portions of foundations

Note: Reused material must be in compliance with the appropriate Title 24 requirements.

(g) Section A4.106.5, Table A4.106.5.1(1), Table A4.106.5.1(2), Table A4.106.5.1(3) and Table A4.106.5.1(4) of the 2016 Edition of the California Green Building Standards Code are hereby amended to read as follows:

A4.106.5 Cool roof for reduction of heat island effect. Roofing materials for Tier 1 and Tier 2 buildings shall comply with this section.

**TABLE A4.106.5.1(1)
TIER 1 – LOW-RISE RESIDENTIAL**

ROOF SLOPE	CLIMATE ZONE	MINIMUM 3-YEAR AGED SOLAR REFLECTANCE	THERMAL EMITTANCE	SOLAR REFLECTANCE INDEX
£ 2:12	13 & 15	0.63	0.75	75
> 2:12	10-15	0.20	0.75	16

**TABLE A4.106.5.1(2)
TIER 2 – LOW-RISE RESIDENTIAL**

ROOF SLOPE	CLIMATE ZONE	MINIMUM 3-YEAR AGED SOLAR REFLECTANCE	THERMAL EMITTANCE	SOLAR REFLECTANCE INDEX
£ 2:12	2, 4, 6-15	0.68	85	82
> 2:12	2, 4, 6-15	0.28	85	27

**TABLE A4.106.5.1(3)
TIER 1 – HIGH-RISE RESIDENTIAL BUILDINGS, HOTELS, AND MOTELS**

ROOF SLOPE	CLIMATE ZONE	MINIMUM 3-YEAR AGED SOLAR REFLECTANCE	THERMAL EMITTANCE	SOLAR REFLECTANCE INDEX
£ 2:12	10&11, 13-15	0.63	0.75	75
> 2:12	2-15	0.20	0.75	16

**TABLE A4.106.5.1(4)
TIER 2 – HIGH-RISE RESIDENTIAL BUILDINGS, HOTELS, AND MOTELS**

ROOF SLOPE	CLIMATE ZONE	MINIMUM 3-YEAR AGED SOLAR REFLECTANCE	THERMAL EMITTANCE	SOLAR REFLECTANCE INDEX
£ 2:12	2-15	0.68	0.85	82
> 2:12	2-15	0.28	0.85	27

(h) Section A4.303.4 of the 2016 Edition of the California Green Building Standards Code is hereby amended to read as follows:

A4.303.4 Nonwater supplied urinals and composting toilets.

Nonwater supplied urinals or composting toilets are installed throughout the scope of the permit or comply with Sections 1101.1 thru 1101.8 of the California Civil Code, whichever is the most restrictive.

Where approved, hybrid urinals, as defined in Chapter 2, shall be considered waterless urinals.

(i) Section A4.404.3 of the 2016 Edition of the California Green Building Standards Code is hereby amended to read as follows:

A4.404.3 Building systems. Use premanufactured building systems to eliminate solid sawn lumber whenever possible. One or more of the following premanufactured building systems is used throughout:

1. Composite floor joist or premanufactured floor framing system
2. Composite roof rafters or premanufactured roof framing system
3. Panelized (SIPS, ICF or similar) wall framing system
4. Other methods approved by the enforcing agency

(j) Section A4.405.1 of the 2016 Edition of the California Green Building Standards Code is hereby amended to read as follows:

A4.405.1 Prefinished building materials. Utilize prefinished building materials which do not require additional painting or staining. One or more of the following building materials that do not require additional resources for finishing are used:

1. Exterior trim not requiring paint or stain
2. Windows not requiring paint or stain
3. Siding or exterior wall coverings which do not require paint or stain

(k) Section A4.405.4 of the 2016 Edition of the California Green Building Standards Code is hereby amended to read as follows:

A4.405.4 Use of building materials from rapidly renewable sources. One or more of the following materials manufactured from rapidly renewable sources or agricultural by-products is used for a minimum of 2.5 percent of the total value, based on estimated cost of materials on the project:

1. Insulation
2. Bamboo or cork
3. Engineered products
4. Agricultural based products
5. Other products acceptable to the enforcing agency

Note: The intent of this section is to utilize building materials and products which are typically harvested within a 10-year or shorter cycle.

(l) Section A4.407.1 of the 2016 Edition of the California Green Building Standards Code is hereby amended to read as follows:

A4.407.1 Drainage around foundations. Install foundation and landscape drains which discharge to a dry well, sump, bioswale or other approved on-site location except when not required by state code or locally approved ordinance.

(m) Section A5.106.4.1 of the 2016 Edition of the California Green Building Standards Code is hereby amended to read as follows:

A5.106.4.1 Short-term bicycle parking. If the project is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 15 percent of visitor motorized vehicle parking capacity, with a minimum of one two-bike capacity rack.

(n) Table A5.106.4.3 of the 2016 Edition of the California Green Building Standards Code is hereby amended to read as follows:

A5.106.4.3 Changing rooms. For buildings with over 10 tenant-occupants, provide changing/shower facilities for tenant-occupants only in accordance with Table A5.106.4.3 or document arrangements with nearby changing/shower facilities.

TABLE A5.106.4.3

NUMBER OF TENANT-OCCUPANT	SHOWER/CHANGING FACILITIES REQUIRED	2-TIER (12" X 15" X 72") PERSONAL EFFECTS LOCKERS REQUIRED
0-10	1 unisex shower	1
11-50	1 unisex shower	2
51-100	1 unisex shower	3
101-200	1 shower stall per gender	4
Over 200	1 shower stall per gender for each 200 additional tenant-occupants	One 2-tier locker for each 50 additional tenant-occupants

Note: Additional information on recommended bicycle accommodations may be obtained from Sacramento Area Bicycle Advocates

(o) Section A5.106.6.1 of the 2016 Edition of the California Green Building Standards Code is hereby amended to read as follows:

A5.106.6.1 Reduce parking capacity. With the approval of the enforcement authority, employ strategies to reduce on-site parking area by 20% by:

1. Use of on street parking or compact spaces, illustrated on the site plan; or
2. Implementation and documentation of programs that encourage occupants to carpool, ride share or use alternate transportation.

Note: Strategies for programs may be obtained from local TMAs.

(p) Section A5.406.1 of the 2016 Edition of the California Green Building Standards Code is hereby amended to read as follows:

A5.406.1 Choice of materials. Compared to other products in a given product category, choose materials proven to be characterized by one or more of the following for a minimum of 5 percent of the total value, based on estimated cost of materials on the project.

SECTION 35: Section 24.108 of Article XV, Chapter 24, Building and Construction, of the Code of the City of Vernon is amended to read as follows:

Sec. 24.108. 2016 California Energy Code adopted. The City of Vernon hereby adopts by reference the 2016 California Energy Code, as published by the California Building Standards Commission, California Code of Regulations, Title 24, Part 6, including all of its tables, indices, appendices, addenda and footnotes subject, however, to the amendments, additions and deletions set forth in this article. Except as otherwise provided herein, or as later amended, said California Energy Code is hereby referred to and by such reference is incorporated herein as if fully set forth as the Energy Code of the City of Vernon.

SECTION 36: Section 24.109 of Article XV, Chapter 24, Building and Construction, of the Code of the City of Vernon is amended to read as follows:

Sec. 24.109. Energy Code amendments, additions, and deletions. The 2016 California Energy Code is amended as follows:

(a) Paragraph (i) is hereby added to Section 100 of the 2010 California Energy Code to read as follows:

(i) **Energy permit fee.** Energy permit fees shall be set forth in a fee schedule adopted by resolution of the City Council.

A reinspection fee may be assessed for each inspection or reinspection when such portion of the work for which an inspection is called is not complete or when corrections called for are not made.

Reinspection fees may be assessed when the inspection record card is not posted or otherwise available at the work site, the approved plans are not readily available to the inspector, for failure to provide access on the date and time for which the inspection is

requested, or for deviating from the plans requiring the approval of the building official.

In instances where reinspection fees have been assessed, the city may deny additional inspection of the work until the required fees are paid.

SECTION 37: Findings and Justifications. Findings of fact and justifications of the City Council of the aforementioned amendment that justify local amendments to the California Building Standards Code, Title 24 CCR, on the basis of specific local climatic, topographic or geologic conditions and submitted to the City Council under separate cover for approval.

SECTION 38: Ordinances Repealed. Any ordinance, part of an ordinance, or code section in conflict with this Ordinance is hereby repealed.

SECTION 39: Severability. If any chapter, article, section, subsection, subdivision, paragraph, sentence, clause, or phrase or word of this Ordinance or any part thereof is for any reason held to be unconstitutional or invalid or ineffective by any court of competent jurisdiction, such decision shall not affect the validity or effectiveness of the remaining portions of this Ordinance or any part thereof. The City Council hereby declares that it would have adopted this Ordinance and each chapter, article, section, subsection, subdivision, sentence, clause or phrase thereof, irrespective of the fact that any one or more chapters, articles, sections, subsections, subdivisions, clauses, paragraphs, sentences, clauses, phrases or words be declared unconstitutional, or invalid, or ineffective.

SECTION 40: Effect of Code on Past Actions and Obligations. The adoption of this Ordinance does not affect any civil lawsuit

instituted or filed or prosecutions for ordinance violations committed on or prior to the effective date of this Ordinance, does not waive any fee or penalty due and unpaid prior to the effective date of this Ordinance and does not affect the validity of any bond or cash deposit posted, filed or deposited pursuant to the requirements of any ordinance.

SECTION 41: References to Prior Code. Unless superseded and expressly repealed, references in City forms, documents and regulations to the chapters and sections of the former Ordinance No. 1217, shall be construed to apply to the corresponding provisions contained within this Ordinance. Ordinance No. 1217 of the City of Vernon, and all other ordinances or parts of ordinances, in conflict herewith are hereby superseded and expressly repealed.

SECTION 42: Penalty. Unless otherwise provided in the Vernon Municipal Code, any person violating any provision of this Ordinance shall be guilty of a misdemeanor and upon conviction thereof, shall be punished by a fine not exceeding one thousand dollars, or by imprisonment in jail for a term not exceeding six months, or both such fine and imprisonment.

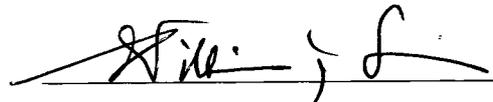
SECTION 43: Copies on File with City Clerk. Pursuant to Government Code Section 50022.6, one certified copy of each of the following: 2016 Fire Code, 2016 California Building Code, 2016 California Electrical Code and 2006 Edition of the ICC Electrical Code Administrative Provisions, 2016 California Mechanical Code, 2016 California Plumbing Code, 2016 California Existing Building Code, 2015 International Existing Building Code, 2016 California Residential Code, 2016 California Green Building Standards Code, and 2016 California Energy Code shall be made available for public inspection in the Office

of the City Clerk.

SECTION 44: Book of Ordinances. The City Clerk, or Deputy City Clerk, shall attest and certify to the adoption of this Ordinance and shall cause this Ordinance and the City Clerk's, or Deputy City Clerk's, certification to be entered in the Book of Ordinances of the Council of this City. The City Clerk, or Deputy City Clerk, shall cause this ordinance to be published or posted as required by law.

SECTION 45: Effective Date. This ordinance becomes effective and shall be in full force on the thirty-first day after the passage thereof; provided, however that where complete plans for buildings have been filed and are pending for building permits prior to the effective date of this Ordinance, permits may be issued, and the applicant may proceed with the construction in strict compliance with Ordinance No. 1237, provided however that physical construction is started within one hundred eighty (180) days from the date of issuance of the permit and continued to completion according to said Ordinance No. 1237.

APPROVED AND ADOPTED this 6th day of December, 2016.



Name: William J. Davis

Title: Mayor / ~~Mayor Pro-Tem~~

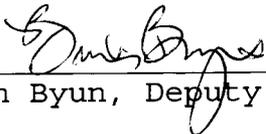
ATTEST:



Maria E. Ayala

City Clerk / ~~Deputy City Clerk~~

APPROVED AS TO FORM:



Brian Byun, Deputy City Attorney

TRANSMITTAL COMMUNICATION

CITY CLERK' S OFFICE

INTEROFFICE MEMORANDUM

DATE: December 8, 2016

TO: Derek Wieske, Director of Public Works, Water & Development Services 

FROM: Deborah Juarez, Records Management Assistant

RE: **Ordinance No. 1237** – An Ordinance of the City Council of the City of Vernon Amending Various Sections of Chapters 7, Fire Regulations and 24, Building and Construction, of the Vernon Municipal Code, Along with Amendments, Additions and Deletions and Adopting by Reference the Following Codes: (1) the 2016 California Fire Code, 24 CCR Part 9; (2) the 2016 California Building Code, 24 CCR Part 2; (3) the 2016 California Electrical Code, 24 CCR Part 3 (4) the 2006 Edition of the International Code Council Electrical Code Administrative Provisions; (5) the 2016 California Mechanical Code, 24 CCR Part 4; (6) the 2016 California Plumbing Code, 24 CCR Part 5; (7) the 2016 California Existing Building Code, 24 CCR Part 10; (8) the 2015 International Existing Building Code, (9) the 2016 California Residential Code, 24 CCR Part 2.5; (10) the 2016 California Green Building Standards Code Also Called the CalGreen Code, 24 CCR Part 11; (11) the 2016 California Energy Code, 24 CCR Part 6; Repealing All Prior Ordinances and Parts of Ordinances in Conflict Therewith

Transmitted herewith for your transmittal to the State is a certified copy of Ordinance No. 1237 referenced above, which was approved by City Council on December 6, 2016.

Please see that a copy of the transmittal letter is sent to the City Clerk's office for the file.

Thank you.

c: Claudia Arellano
Andrew Guth
Ordinance No. 1237

CERTIFICATE

STATE OF CALIFORNIA)

) ss

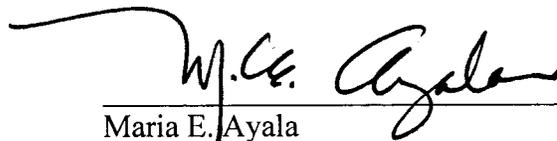
COUNTY OF LOS ANGELES)

I, Maria E. Ayala, City Clerk of the City of Vernon, County of Los Angeles, State of California, hereby certify that the attached is a full and complete copy of:

Ordinance No. 1237 – An Ordinance of the City Council of the City of Vernon Amending Various Sections of Chapters 7, Fire Regulations and 24, Building and Construction, of the Vernon Municipal Code, Along with Amendments, Additions and Deletions and Adopting by Reference the Following Codes: (1) the 2016 California Fire Code, 24 CCR Part 9; (2) the 2016 California Building Code, 24 CCR Part 2; (3) the 2016 California Electrical Code, 24 CCR Part 3 (4) the 2006 Edition of the International Code Council Electrical Code Administrative Provisions; (5) the 2016 California Mechanical Code, 24 CCR Part 4; (6) the 2016 California Plumbing Code, 24 CCR Part 5; (7) the 2016 California Existing Building Code, 24 CCR Part 10; (8) the 2015 International Existing Building Code, (9) the 2016 California Residential Code, 24 CCR Part 2.5; (10) the 2016 California Green Building Standards Code Also Called the CalGreen Code, 24 CCR Part 11; (11) the 2016 California Energy Code, 24 CCR Part 6; Repealing All Prior Ordinances and Parts of Ordinances in Conflict Therewith

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official Seal of the City of Vernon, County of Los Angeles, State of California, on this 7th day of December 2016.

SEAL:



Maria E. Ayala
City Clerk