

ORDINANCE NO 13-0027

AN ORDINANCE OF THE CITY OF MANHATTAN BEACH AMENDING CHAPTER 5.26 OF TITLE 5 OF THE MANHATTAN BEACH MUNICIPAL CODE; ADOPTING BY REFERENCE THE 2013 EDITIONS OF THE CALIFORNIA BUILDING CODE, CALIFORNIA RESIDENTIAL CODE, CALIFORNIA ELECTRICAL CODE, CALIFORNIA PLUMBING CODE, CALIFORNIA MECHANICAL CODE, CALIFORNIA GREEN BUILDING STANDARDS CODE, AND THE CALIFORNIA ENERGY CODE; TOGETHER WITH CERTAIN DELETIONS, ADDITIONS AND AMENDMENTS; AND AMENDING TITLE 9 OF THE MANHATTAN BEACH MUNICIPAL CODE.

THE CITY COUNCIL OF THE CITY OF MANHATTAN BEACH DOES ORDAIN AS FOLLOWS:

**SECTION 1.** The City Council hereby finds that it can be seen with certainty that there is no possibility that the adoption of this Ordinance may have a significant effect on the environment. It is therefore exempt from review under the California Environmental Quality Act pursuant to Title 14, Section 15061(b)(3) of the California Code of Regulations (CEQA Guidelines).

**SECTION 2.** Chapter 9.01 of Title 9 of the Manhattan Beach Municipal Code is amended to read as follows:

**Chapter 9.01 BUILDING CODE.**

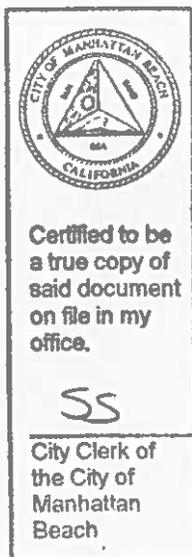
**9.01.010 Adoption of the 2013 California Building Code.**

Pursuant to the provisions of Section 50022.1 to 50022.10, inclusive, of the Government Code of the State and subject to the particular additions, deletions and amendments set forth in this chapter, the rules, regulations, provisions and conditions set forth in that certain Code entitled California Building Code 2013 Edition," including the Appendices and Standards (including Chapter/Section 1, Division 2; Chapter 31B; and excluding all Appendices with the exception of Appendices I and J) therein contained, promulgated and published by the International Code Council and the California Building Standards Commission, one (1) full printed copy of which, printed as a Code in book form were by the Council ordered filed and which have been filed in the office of the City Clerk, expressly incorporated herein and made a part hereof as fully and for all intents and purposes as though set forth herein at length, are hereby established and adopted as the rules, regulations, provisions and conditions to be observed and followed in the construction, alteration, improvements, movement, enlargement, replacement, repair, equipment, use and occupancy, location, maintenance, removal, demolition, conversion, area and height, of buildings or structures or any appurtenances connected or attached to such buildings or structures in the city; and subject to the additions, deletions and amendments set forth in this chapter, said Code with its Appendices and the said Standards containing said rules, regulations, standards, provisions and conditions is hereby established and adopted by reference, and the same shall be designated, known and referred to as the "Building Code" of and for the City.

**9.01.020 Referenced codes.**

Section [A]101.4 is amended to read as follows:

**Section [A]101.4. Referenced codes.** The other codes listed in Sections [A]101.4.1 through [A]101.4.6 and referenced elsewhere in this code shall be considered part of the requirements of this



code to the prescribed extent of each such reference. Specifically, the Electrical, Gas, Mechanical, Plumbing, Swimming Pool, and Energy Codes; the most recently adopted California State and Manhattan Beach Municipal Codes will take precedence.

**9.01.030 Work exempt from permit.**

Section [A]105.2, item 2 is amended to read as follows:

2. Fences not over 6 feet (1829 mm) high.

Section [A]105.2, item 9 is amended to read as follows:

9. Prefabricated swimming pools accessory to Group R-3 Occupancy that are less than 24 18 inches (457 mm) deep, do not exceed 5,000 gallons (18925 L) and installed entirely above ground.

**9.01.040 Expiration of plan review.**

Section [A]105.3.2 is amended to read as follows:

**Section [A]105.3.2 Time limitation of application.** Applications for which no permit is issued within 180 days following the date of application shall expire by limitation and plans and other data submitted for review may thereafter be returned to the applicant or destroyed by the Building Official. The Building Official may extend the time for action by applicant for a period not exceeding 180 days upon written request by the applicant and justifiable cause demonstrated. No application shall be extended more than once. In order to renew action on an application after expiration, the applicant shall resubmit plans and pay a new plan review fee and plans shall be reviewed under the current codes and ordinances at the time of the new applications.

**9.01.050 Permit expiration.**

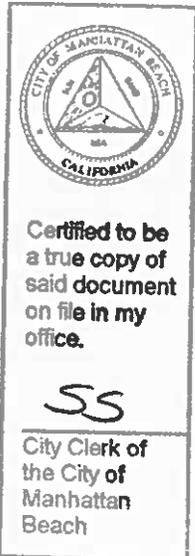
Section [A]105.5 is amended to read as follows:

**[A]105.5 Expiration.** Every permit issued shall become invalid unless the work on the site authorized by such permit is commenced within 180 days after its issuance, or if the work authorized on the site by such permit is suspended or abandoned for a period of 180 days after the work is commenced, or if the building or work authorized by such permit is not completed within 2 calendar years from the issuance date of the permit.

Before such work can be recommenced, a new permit, or a renewed permit as specified below, shall be first obtained. No permit shall be renewed more than once.

For permits where work has not commenced within 180 days from the date of such permit, a renewed permit may be obtained provided that: (1) no changes have been made or will be required in the original plans and specifications for such work; and (2) the expiration has not exceeded two years from the original issuance date.

For permits where work had commenced and was subsequently suspended or abandoned for a period exceeding 180 days, a renewed permit may be obtained provided that: (1) No changes have been made or will be required in the original plans and specifications for such work; and (2) the expiration has not exceeded two years from the issuance date and/or (3) Where construction has progressed and has been approved to the point whereby only a final inspection(s) is required, a fee shall be determined based on the number of estimated inspections, estimated staff time, and required meetings as determined by the Building Official.



For permits that have exceeded two years beyond the issuance date, a new permit is required. The applicant shall pay the fee based on the valuation of the uncompleted work required for a plan check and a new permit and plans will be reviewed under the current codes and ordinances at the time of the new applications.

Any permittee holding an unexpired permit may apply for an extension of the time within which work under that permit may be continued when, for good and satisfactory reasons, the permittee is unable to continue work within the time required by this section. The Building Official may extend the time for action by the permittee for a period not exceeding six calendar months upon written request by the permittee showing that circumstances beyond the control of the permittee have prevented action from being taken. No permit shall be extended more than once.

If the owner or applicant fails to complete the construction work within the time required, the Building Official is authorized to obtain the abatement of any unsafe condition or nuisance created by such incomplete work. The City Attorney is authorized to file an action for the abatement of any such unsafe condition or nuisance if required to do so by the Building Official.

**9.01.060 Fees.**

Sections [A]109.2 and [A]109.4 are amended to read as follows:

**[A]109.2 Schedule of permit fees.** The fees shall be determined by the most current City Resolution of Fees.

**Plan Review Fees.** When submittal documents are required by the building official, a plan review fee shall be paid at the time of submitting the submittal documents for plan review. Said plan review fee shall be determined by the most current City Resolution of Fees.

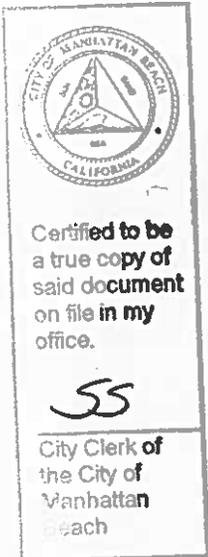
The plan review fees specified in this section are separate fees from the permit fees and are in addition to the permit fees.

When submittal documents are incomplete or changed so as to require additional plan review or when the project involves deferred submittal items as defined in Section [A]107.3.4.2, an additional plan review fee shall be charged as determined by the most current City Resolution of Fees.

**[A]109.4 Work commencing before permit issuance.** Any person who commences any work on a building, structure, electrical, gas, mechanical or plumbing system before obtaining the necessary permits shall be subject to a fee established by the Building Official and the most current Manhattan Beach Resolution of Fees in addition to the required permit fees.

**Investigation.** Whenever any work for which a permit is required by this code has been commenced without first obtaining said permit, a special investigation shall be made before a permit may be issued for such work.

**Investigation Fee.** An investigation fee, in addition to the permit fee, shall be collected whether or not a permit is then or subsequently issued. The investigation fee shall be equal up to the amount of the permit fee required by this code as determined by the Building Official. The minimum investigation fee shall be determined by the most current Resolution of Fees. 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.



**9.01.070 Violation penalties.**

Section [A]114.4 is amended to read as follows:

**[A]Section 114.4. Violation penalties.** Any person who violates a provision of this code or fails to comply with any of the requirements thereof or who erects, constructs, alters or repairs a building or structure in violation of the approved construction documents or directive of the building official, or of a permit or certificate issued under the provisions of this code, shall be subject to the penalties as prescribed by law. Every person who willfully resists, delays, obstructs or interferes in any way with any City Building Inspector in the discharge or attempt to discharge any duty of his or her office or employment shall be guilty of a violation of this Chapter

Any person, firm, or corporation violating any of the provisions or failing to comply with any of the mandatory requirements of the ordinances of Manhattan Beach shall be guilty of a misdemeanor. Any person convicted of a misdemeanor under the ordinances of Manhattan Beach shall be punished by a fine of not more than one thousand dollars (\$1,000), or by imprisonment not to exceed six (6) months, or by both such fine and imprisonment. Each such person shall be guilty of a separate offense for each and every day during any portion of which any violation of any provision of the ordinances of Manhattan Beach is committed, continued, or permitted by any such person, and shall be punished accordingly.

**9.01.080 Definitions.**

Section 202 is amended by adding a definition to read as follows:

**ABANDONED OR SUSPENDED WORK.** Work that has been stopped or no progress in construction and no inspection is required or performed for a period of 180 days.

**9.01.090 Yards.**

Section 1206.2 is amended by adding Exception 1 to read as follows:

**Exception 1.** One and two family dwellings not exceeding three stories, which are located on a 30 foot wide lot or less may have 3 foot (914 mm) side yards, if additional artificial light and mechanical ventilation are provided for the structure as determined to be adequate by the building official.

**9.01.100 Roofing and re-roofing.**

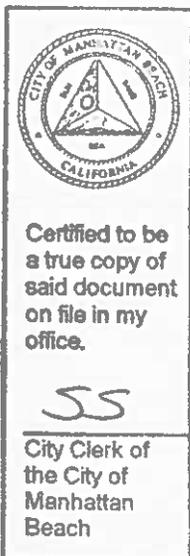
Table 1505.1 is amended to read as follows:

**Table 1505.1. Minimum Roof Covering Classification for Types of Construction.** All roof classifications of "C" shall be deleted from Table 1505.1 and replaced by class "B" roof classification.

Sections 1505 and 1507 are amended by adding a sentence to each that reads as follows:

Fire-retardant roofs are roofing assemblies complying with California Building Code Standards and listed as Class A or B roofs. The use of fire-retardant wood shakes or fire retardant wood shingles is prohibited.

Section 1505.5 is amended to read as follows:



**1505.5 Non-classified Roofing.** Non-classified roofing is approved material that is not listed as a Class A or B roofing assembly. The use of wood shakes or wood shingles is prohibited.

Sections 1505.4 1505.5, 1507.6, and 1507.7 are hereby deleted [DO YOU WANT TO AMEND 1505.5 OR DELETE IT?

Section 1510.1 is amended by adding Exception 2 to read as follows:

**Exception 2.** All re-roofing shall conform to the applicable provisions of Chapter 15 of this code and as otherwise required in this chapter.

Roofing materials and methods of application shall comply with the California Building Code standards or shall follow the manufacturer's installation requirements when approved by the building official.

Wood shakes and wood shingles re-roofs of entire structure are prohibited unless approved by the building official because of special circumstances.

**9.01.110 General structural design provisions.**

**The following sections are amended to read as follows:**

Section 1613.6 is added to read as follows:

**1613.6 ASCE 7, 12.12.3**

Modify ASCE 7 Equation 12.12-1 of Section 12.12.3 to read as follows:

$$\delta_M = \frac{C_d \delta_{max}}{1-r} \quad (12.12-1)$$

Section 1613.7 is added to read as follows:

**1613.7 ASCE 7, 12.2.3.1, Exception 3.**

Modify ASCE 7 Section 12.2.3.1 Exception 3 to read as follows:

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

Section 1613.8 is added to read as follows:

**1613.8 ASCE 7 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.

Section 1613.10 is added to read as follows:

**1613.10 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.

**1613.10.1 Scope.** This part contains special requirements for suspended ceilings and lighting systems. Provisions of Section 13.5.6 of ASCE 7-10 shall apply except as modified herein.

**1613.10.2 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.

**1613.10.3 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 in. (50mm) oversize ring, sleeve, or adapter through the ceiling tile to allow for free movement of at least 1 in. (25mm) in all horizontal directions. Alternatively, a swing joint that can accommodate 1 in. (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.

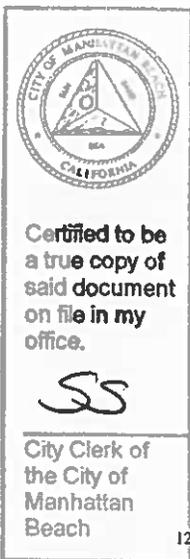
**1613.10.4 Special Requirements for Means of Egress.** Suspended ceiling assemblies located along means of egress serving an occupant load of 30 or more shall comply with the following provisions.

**1613.10.4.1 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.

**1613.10.4.2 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.

**1613.10.4.3 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 1006.3 of this Code.

**1613.10.4.4 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.



Section 1704.5 is amended to read as follows:

**1704.5 Structural Observations.**

Where required by the provisions of Section 1704.5.1 or 1704.5.2, 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.

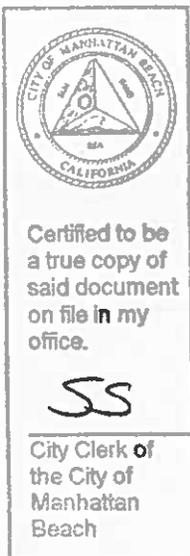
The owner or owner's representative shall coordinate and call a preconstruction meeting between the structural observer, contractors, affected subcontractors and special inspectors. The structural observer shall preside over the meeting. The purpose of the meeting shall be to identify the major structural elements and connections that affect the vertical and lateral load resisting systems of the structure and to review scheduling of the required observations. A record of the meeting shall be included in the report submitted to the Building Official.

Observed deficiencies shall be reported 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 is required before acceptance of the work by the Building Official.

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 or owner's representative shall coordinate and call a preconstruction meeting between the structural observer, contractors, affected subcontractors and special inspectors. The structural observer shall preside over the meeting. The purpose of the meeting shall be to identify the major structural elements and connections that affect the vertical and lateral load resisting systems of the structure and to review scheduling of the required observations. A record of the meeting shall be included in the report submitted to the Building Official.

Observed deficiencies shall be reported 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 is required before acceptance of the work by the Building Official.



Section 1704.5.1 is amended to read as follows:

**1704.5.1 Structural observations for seismic resistance.**

Structural observations shall be provided 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.

Section 1705.3 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.

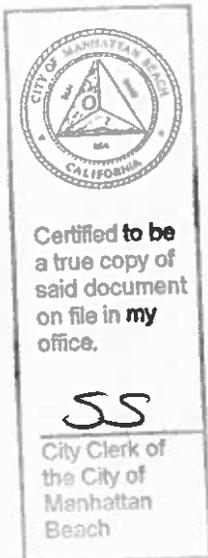


Table 1705.3, Items 3 AND 4, are amended to read as follows:

**TABLE 1705.3  
REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION**

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCE STANDARD <sup>a</sup>	IBC REFERENCE
3. Inspection of anchors cast in concrete where allowable loads have been increased or where strength design is used.	-	X	ACI 318: D.9.2	1908.5,
4. Inspection of anchors post-installed in hardened concrete members <sup>b</sup> .	-		ACI 318:D.9.2.4	
a. <u>Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads.</u>	X		ACI 318: D.9.2	-
b. <u>Mechanical anchors and adhesive anchors not defined in 4.a.</u>		X		-

b. Specific requirements for special inspection shall be included in the research report for the anchor issued by an approved source in accordance with ACI 355.2 D.9.2 in ACI 318, or other qualification procedures. Where specific requirements are not provided, special inspection requirements shall be specified by the registered design professional and shall be approved by the building official prior to the commencement of the work.

*(Portions of table not shown remain unchanged.)*

Section 1705.11 is amended to read as follows:

**1705.11 Special inspections for seismic resistance.**

Special inspections itemized in Sections 1705.11.1 through 1705.11.8, unless exempted by the exceptions of Section 1704.2, are required for the following:

1. The seismic force-resisting systems in structures assigned to Seismic Design Category C, D, E or F in accordance with Sections 1705.11.1 through 1705.11.3, as applicable.
2. Designated seismic systems in structures assigned to Seismic Design Category C, D, E or F in accordance with Section 1705.11.4.
3. Architectural, mechanical and electrical components in accordance with Sections 1705.11.5 and 1705.11.6.
4. Storage racks in structures assigned to Seismic Design Category D, E or F in accordance with Section 1705.11.7.
5. Seismic isolation systems in accordance with Section 1705.11.8.

**Exception:** Special inspections itemized in Sections 1705.11.1 through 1705.11.8 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.

Section 1711.1.1 is amended to read as follows:

**1711.1.1 General.**

The vertical load-bearing capacity, torsional moment capacity and deflection characteristics of joist hangers shall be determined in accordance with ASTM D 1761 and ASTM D 7147 as specified below using lumber having a specific gravity of 0.49 or greater, but not greater than 0.55, as determined in accordance with AF&PA NDS for the joist and headers.

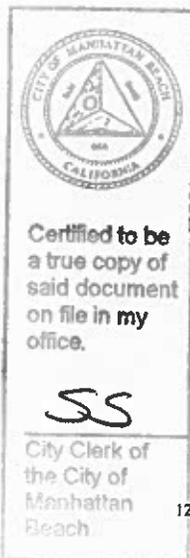
**Exception:** The joist length shall not be required to exceed 24 inches (610 mm).

Section 1711.1.2 is amended to read as follows:

**1711.1.2 Vertical load capacity for joist hangers.**

The vertical load-bearing capacity for the joist hanger shall be determined by testing a minimum of three joist hanger assemblies as specified in ASTM D 1761 or ASTM D 7147. If the ultimate vertical load for any one of the tests varies more than 20 percent from the average ultimate vertical load, at least three additional tests shall be conducted. The allowable vertical load-bearing of the joist hanger shall be the lowest value determined from the following:

1. The lowest ultimate vertical load for a single hanger from any test divided by three (where three tests are conducted and each ultimate vertical load does not vary more than 20 percent from the average ultimate vertical load).
2. The average ultimate vertical load for a single hanger from all tests divided by three (where six or more tests are conducted).
3. The average from all tests of the vertical loads that produce a vertical movement of the joist with respect to the header of 1/8 inch (3.2 mm).



4. The sum of the allowable design loads for nails or other fasteners utilized to secure the joist hanger to the wood members and allowable bearing loads that contribute to the capacity of the hanger.

5. The allowable design load for the wood members forming the connection.

Chapter 35 is amended by revising the following Standard Reference Numbers for ASTM to read as follows:

D 1761-88(2000) ε1	Test Method for Mechanical Fasteners in Wood	1711.1.1 1711.1.2 1711.1.3
D 7147-05	Standard Specification for Testing and Establishing Allowable Loads of Joist Hangers	1711.1.1 1711.1.2

Section 1807.1.4 is amended to read as follows:

**1807.1.4 Permanent wood foundation systems.**

Permanent wood foundation systems shall be designed and installed in accordance with AF&PA 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 2303.1.8.1. Permanent wood foundation systems shall not be used for structures assigned to Seismic Design Category D, E or F.

Section 1807.1.6 is amended to read as follows:

**1807.1.6 Prescriptive design of concrete and masonry foundation walls.**

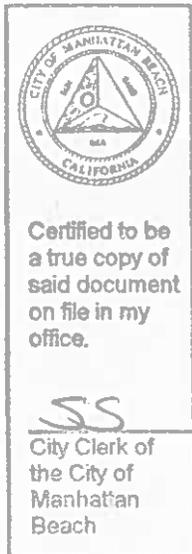
Concrete and masonry foundation walls that are laterally supported at the top and bottom shall be permitted to be designed and constructed in accordance with this section. Prescriptive design of foundation walls shall not be used for structures assigned to Seismic Design Category D, E or F.

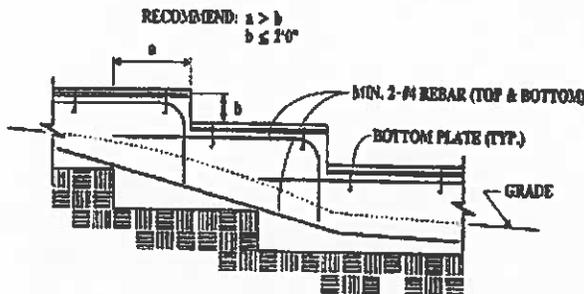
Section 1809.3 is amended to read as follows:

**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 rebar. Two bars shall be placed at the top and bottom of the footings as shown in Figure 1809.3.





**STEPPED FOUNDATIONS**  
**FIGURE 1809.3**  
**STEPPED FOOTING**

Section 1809.7 and Table 1809.7 are 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 <sup>a, b, c, d, e</sup>**

NUMBER OF FLOORS SUPPORTED BY THE FOOTING	WIDTH OF FOOTING (Inches)	THICKNESS OF FOOTING (Inches)
1	12	6
2	15	6
3	18	8 <sup>g</sup>

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.



Certified to be a true copy of said document on file in my office.

*SS*

City Clerk of the City of Manhattan Beach

Section 1809.12 is 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 AF&PA NDS. Timber footings shall not be used in structures assigned to Seismic Design Category D, E or F.

Section 1810.3.2.4 is amended to read as follows:

**1810.3.2.4 Timber.**

Timber deep foundation elements shall be designed as piles or poles in accordance with AF&PA 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.

Section 1905.1.3 is amended to read as follows:

**1905.1.3 ACI 318, Section 21.4.**

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

*21.4.3 – Connections that are designed to yield shall be capable of maintaining 80 percent of their design strength at the deformation induced by the design displacement or shall use Type 2 mechanical splices.*

*21.4.4 – Elements of the connection that are not designed to yield shall develop at least  $1.5 S_y$ .*

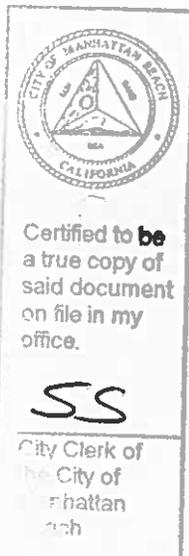
*21.4.5 – In structures assigned to Seismic Design Category D, E or F, intermediate precast wall panels and wall piers shall be designed in accordance with Section 21.9 or 21.13.*

*21.4.6 – Wall piers not designed as part of a moment frame in buildings assigned to Seismic Design Category C shall have transverse reinforcement designed to resist the shear forces determined from 21.3.3. Spacing of transverse reinforcement shall not exceed 8 inches (203 mm). Transverse reinforcement shall be extended beyond the pier clear height for at least 12 inches (305 mm).*

**Exceptions:**

- 1. Wall piers that satisfy 21.13.*
- 2. Wall piers along a wall line within a story where other shear wall segments provide lateral support to the wall piers and such segments have a total stiffness of at least six times the sum of the stiffnesses of all the wall piers.*

*21.4.7 – Wall segments with a horizontal length-to-thickness ratio less than 2.5 shall be designed as columns.*



Section 1905.1.8 is amended to read as follows:

**1905.1.8 ACI 318, Section 22.10.**

Delete ACI 318, Section 22.10, and replace with the following:

*22.10 – Plain concrete in structures assigned to Seismic Design Category C, D, E or F.*

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

- (a) 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.*

Section 1905.1 is amended and Sections 1905.1.10 through 1905.1.12 are added to read as follows:

**1905.1 General.**

The text of ACI 318 shall be modified as indicated in Sections 1905.1.1 through 1905.1.12.

**1905.1.10 ACI 318, Section 21.6.4.**

Modify ACI 318, Section 21.6.4, by adding Sections 21.6.4.8 and 21.6.4.9 as follows:

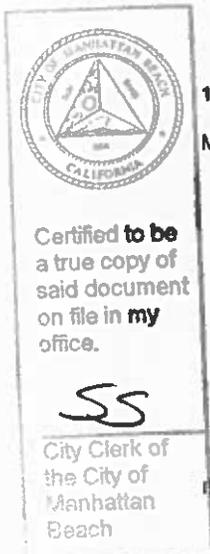
*21.6.4.8 Where the calculated point of contraflexure is not within the middle half of the member clear height, provide transverse reinforcement as specified in ACI 318 Sections 21.6.4.1, Items (a) through (c), over the full height of the member.*

*21.6.4.9 – At any section where the design strength,  $\phi P_n$ , of the column is less than the sum of the shears  $V_u$ , computed in accordance with ACI 318 Sections 21.5.4.1 and 21.6.5.1 for all the beams framing into the column above the level under consideration, transverse reinforcement as specified in ACI 318 Sections 21.6.4.1 through 21.6.4.3 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,  $\phi P_n$ , of the column, these moments are permitted to be assumed to result from the deformation of the frame in any one principal axis.*

**1905.1.11 ACI 318, Section 21.9.4.**

Modify ACI 318, Section 21.9.4, by adding Section 21.9.4.6 as follows:

*21.9.4.6 – 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 21.13.*



**1905.1.12 ACI 318, Section 21.11.6.**

Modify ACI 318, by adding Section 21.11.6.1 as follows:

*21.11.6.1 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.*

Section 2304.9.1 is amended to read as follows:

**2304.9.1 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 2304.9.1. 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.

Section 2304.11.7 is amended to read as follows:

**2304.11.7 Wood used in retaining walls and cribs.**

Wood installed in retaining or crib walls shall be preservative treated in accordance with AWPA U1 (Commodity Specifications A or F) 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.

Section 2305.4 is amended 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.

Section 2305.5 is added 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.

Section 2306.2 is amended to read as follows:

**2306.2 Wood-frame diaphragms.**

Wood-frame diaphragms shall be designed and constructed in accordance with AF&PA SDPWS. Where panels are fastened to framing members with staples, requirements and limitations of AF&PA 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.

**Exception:** [DSA-SS, DSA-SS/CC and OSHPD 1, 2 & 4] Wood structural panel diaphragms using staples as fasteners are not permitted by DSA and OSHPD.

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.

Section 2306.3 of is amended and Section 2307.2 is added to read as follows:

**2306.3 Wood-frame shear walls.**

Wood-frame shear walls shall be designed and constructed in accordance with AF&PA SDPWS. For structures assigned to Seismic Design Category D, E, or F, Application of Tables 4.3A and 4.3B of AF&PA 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. Where shear design values using allow stress design (ASD) exceed 350 plf or load and resistance factor design (LRFD) exceed 500 plf, all framing members receiving edge nailing from abutting panels shall not be less than a single 3-inch nominal member, or two 2-inch nominal members fastened together in accordance with Section 2306.1 to transfer the design shear value between framing members. Wood structural panel joint and sill plate nailing shall be staggered at all panel edges. See Section 4.3.6.1 and 4.3.6.4.3 of AF&PA SDPWS for sill plate size and anchorage requirements.
4. 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.
5. 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 AF&PA SDPWS shall not be used below the top level in a multi-level building for structures.



Where panels are fastened to framing members with staples, requirements and limitations of AF&PA 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 AF&PA SDPWS.

**Exception:** [DSA-SS 7DSA-SS/CC and OSHPD 1, 2 &4] Wood structural panel shear walls using staples as fasteners are not permitted by DSA and OSHPD.

**2307.2 Wood-frame shear walls.** Wood-frame shear walls shall be designed and constructed in accordance with Section 2306.3 as applicable.

Section 2308.3.4 is amended to read as follows:

**2308.3.4 Braced wall line support.**

Braced wall lines shall be supported by continuous foundations.

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

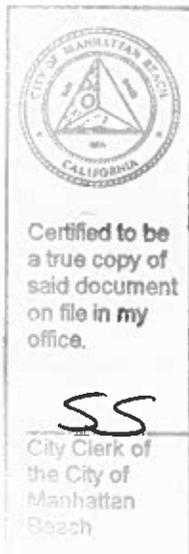
Section 2308.9.3.1, Section 2308.9.3.2 and Figure 2308.9.3.2 are amended to read as follows:

**2308.9.3.1 Alternative bracing.**

Any bracing required by Section 2308.9.3 is permitted to be replaced by the following:

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-minimum-thickness (9.5 mm) wood structural panel sheathing nailed with 8d common or galvanized box nails in accordance with Table 2304.9.1 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 2308.6 shall be provided in each panel. Anchor bolts shall be placed at each panel outside quarter points. Each panel end stud shall have a tie-down device fastened to the foundation, capable of providing an approved uplift capacity of not less than 1,800 pounds (8006 N). The tie-down device shall be installed in accordance with the manufacturer's recommendations. The panels 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 inches (381 mm) with the reinforcement required in the continuous foundation located directly under the braced wall line.



2. In the first story of two-story buildings, each wall panel shall be braced in accordance with Section 2308.9.3.1, item 1, except that 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 not be less than 3,000 pounds (13 344 N).

**2308.9.3.2 Alternate bracing wall panel adjacent to a door or window opening.**

Any bracing required by Section 2308.9.3 is permitted to be replaced by the following when used adjacent to a door or window opening with a full-length header:

1. 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 2308.9.3.2. 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 2308.9.3.2. The wood structural panel sheathing shall extend up over the solid sawn or glued-laminated header and shall be nailed in accordance with Figure 2308.9.3.2. A built-up header consisting of at least two 2 x 12s and fastened in accordance with Item 24 of Table 2304.9.1 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 2308.6 shall be provided in the center of each sill plate. The studs at each end of the panel shall have a tie-down device fastened to the foundation with an uplift capacity of not less than 4,200 pounds (18 480 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 tie-down device fastened to the foundation with an uplift capacity of not less than 1,000 pounds (4400 N).

The tie-down devices shall be an embedded strap type, installed in accordance with the manufacturer's recommendations. The 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 inches (381 mm) with the reinforcement required in the continuous foundation located directly under the braced wall line.

2. In the first story of two-story buildings, each wall panel shall be braced in accordance with Item 1 above, except that each panel shall have a length of not less than 24 inches (610 mm).



12100-0001N1644828v3.doc

Table 2308.12.4 is amended to read as follows:

**TABLE 2308.12.4  
WALL BRACING IN SEISMIC DESIGN CATEGORIES D AND E  
(Minimum Percentage of Wall Bracing per each Braced Wall Line<sup>a</sup>)**

CONDITION	SHEATHING TYPE <sup>b</sup>	$S_{DS} < 0.50$	$0.50 \leq S_{DS} < 0.75$	$0.75 \leq S_{DS} \leq 1.00$	$S_{DS} > 1.00$
One Story	G-P <sup>c</sup>	43	59	75	100
	S-W <sup>d</sup>	21	32	37	48

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

- a. Minimum length of panel bracing of one face of the wall for S-W sheathing shall be at least 4'-0" long or both faces of the wall for G-P sheathing shall be at least 8'-0" long; h/w ratio shall not exceed 2:1. For S-W panel bracing of the same material on two faces of the wall, the minimum length is permitted to be one-half the tabulated value but the h/w ratio shall not exceed 2:1 and design for uplift is required. The 2:1 h/w ratio limitation does not apply to alternate braced wall panels constructed in accordance with Section 2308.9.3.1 or 2308.9.3.2. 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.
- b. G-P = gypsum board, portland cement plaster or gypsum sheathing boards; S-W = wood structural panels
- c. Nailing as specified below shall occur at all panel edges at studs, at top and bottom plates and, where occurring, at blocking:
  - For 1/2-inch gypsum board, 5d (0.113 inch diameter) cooler nails at 7 inches on center;
  - For 5/8-inch gypsum board, No 11 gage (0.120 inch diameter) cooler nails at 7 inches on center;
  - For gypsum sheathing board, 1-3/4 inches long by 7/16-inch head, diamond point galvanized nails at 4 inches on center;
  - For gypsum lath, No. 13 gage (0.092 inch) by 1-1/8 inches long, 19/64-inch head, plasterboard at 5 inches on center;
  - For Portland cement plaster, No. 11 gage (0.120 inch) by 1 1/2 inches long, 7/16-inch head at 6 inches on center;
- d. S-W 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.

Section 2308.12.5 is amended to read as follows:

**2308.12.5 Attachment of sheathing.**

Fastening of braced wall panel sheathing shall not be less than that prescribed in Table 2308.12.4 or 2304.9.1. 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.

**SECTION 3.** Chapter 9.03 of Title 9 of the Manhattan Beach Municipal Code is amended to read as follows:

**Chapter 9.03 RESIDENTIAL CODE**

**9.03.010 Adoption of California Residential Code.**

Pursuant to the provisions of Section 50022.1 to 50022.10, inclusive, of the Government Code of the State and subject to the particular additions, deletions and amendments set forth in this chapter, the rules, regulations, provisions and conditions set forth in that certain Code entitled "California Residential Code 2013 Edition," including Chapter 1, Division 2 and Appendix G therein contained, promulgated and published by the International Code Council and the California Building Standards



Commission, one (1) full printed copy of which, printed as a Code in book form were by the Council ordered filed and which have been filed in the office of the City Clerk, expressly incorporated herein and made a part hereof as fully and for all intents and purposes as set forth herein at length, are hereby established and adopted as the rules, regulations, and provisions and conditions to be observed and followed in the construction, enlargement, alteration, movement, replacement, repair, equipment, use and occupancy, location, removal and demolition, conversion, use, height, area and maintenance of buildings, structures and improvements of every detached one-and two-family dwelling, townhouse not more than three stories above grade plane in height with a separate means of egress and structures accessory thereto in the city and related subjects, items and matters as set forth in said Code, within the City. Subject to the additions, deletions and amendments set forth in this chapter, said Code, with its said Chapter 1, Division 2 and Appendix G, is hereby established and adopted by reference, and the same shall be designated, known and referred to as the "Residential Code" of and for the City.

**9.03.020 Work exempt from permit.**

R105.2, item 2 is amended to read as follows:

2. Fences not over 6 feet (1829 mm) high.

R105.2, item 7 is amended to read as follows:

7. Prefabricated swimming pools that are less than 18 inches (457 mm) deep.

**9.03.030 Expiration of plan review.**

Section R105.3.2 is amended as follows:

**Section R105.3.2 Time limitation of application.** Applications for which no permit is issued within 180 days following the date of application shall expire by limitation and plans and other data submitted for review may thereafter be returned to the applicant or destroyed by the Building Official. The Building Official may extend the time for action by applicant for a period not exceeding 180 days upon written request by the applicant and justifiable cause demonstrated. No application shall be extended more than once. In order to renew action on an application after expiration, the applicant shall resubmit plans and pay a new plan review fee and plans shall be reviewed under the current codes and ordinances at the time of the new applications.

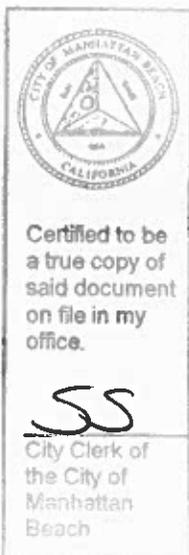
**9.03.040 Permit Expiration.**

Section R105.5 is amended to read as follows:

**R105.5 Expiration.** Every permit issued shall become invalid unless the work on the site authorized by such permit is commenced within 180 days after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of 180 days after the work is commenced, or if the building or work authorized by such permit is not completed within 2 calendar years from the issuance date of the permit.

Before such work can be recommenced, a new permit, or a renewed permit as specified below, shall be first obtained. No permit shall be renewed more than once.

For permits where work has not commenced within 180 days from the date of such permit, a renewed permit may be obtained provided that: (1) no changes have been made or will be required in the



original plans and specifications for such work; and (2) the expiration has not exceeded two years from the original issuance date.

For permits where work had commenced and was subsequently suspended or abandoned for a period exceeding 180 days, a renewed permit may be obtained provided that: (1) No changes have been made or will be required in the original plans and specifications for such work; and (2) the expiration has not exceeded two years from the issuance date and/or (3) Where construction has progressed and has been approved to the point whereby only a final inspection(s) is required, a fee shall be determined based on the number of estimated inspections, estimated staff time, and required meetings as determined by the Building Official.

For permits that have exceeded two years beyond the issuance date, a new permit is required. The applicant shall pay the fee based on the valuation of the uncompleted work required for a plan check and a new permit and plans will be reviewed under the current codes and ordinances at the time of the new applications.

Any permittee holding an unexpired permit may apply for an extension of the time within which work under that permit may be continued when, for good and satisfactory reasons, the permittee is unable to continue work within the time required by this section. The Building Official may extend the time for action by the permittee for a period not exceeding six calendar months upon written request by the permittee showing that circumstances beyond the control of the permittee have prevented action from being taken. No permit shall be extended more than once.

If the owner or applicant fails to complete the construction work within the time required, the Building Official is authorized to obtain the abatement of any unsafe condition or nuisance created by such incomplete work. The City Attorney is authorized to file an action for the abatement of any such unsafe condition or nuisance if required to do so by the Building Official.

#### 9.03.050 Fees.

Section R108.2 is amended to read as follows:

**R108.2 Schedule of permit fees.** The fees shall be determined by the most current City Resolution of Fees.

**Plan Review Fees.** When submittal documents are required by the building official, a plan review fee shall be paid at the time of submitting the submittal documents for plan review. Said plan review fee shall be determined by the most current City Resolution of Fees.

The plan review fees specified in this section are separate fees from the permit fees and are in addition to the permit fees.

When submittal documents are incomplete or changed so as to require additional plan review or when the project involves phased submittal items as defined in Section R106.3.3, an additional plan review fee shall be charged as determined by the most current City Resolution of Fees.

Section R108.3 is amended to read as follows:

**R108.3 Building permit valuations.** The applicant for a permit shall provide an estimated permit value at time of application. Building permit valuations shall include total value of the work for which a permit is being issued, such as electrical, gas, mechanical, plumbing equipment and other permanent systems, including materials and labor. If, in the opinion of the building official, the valuation is underestimated on the application, the permit shall be denied, unless the applicant can show detailed estimates to meet the approval of the building official. Final building permit valuation shall be set by the building official.



Certified to be  
a true copy of  
said document  
on file in my  
office.

  
City Clerk of  
the City of  
Manhattan  
Beach.

Section R108.6 is amended to read as follows:

**R108.6 Work commencing before permit issuance.** Any person who commences any work on a building, structure, electrical, gas, mechanical or plumbing system before obtaining the necessary permits shall be subject to a fee established by the Building Official and the most current Manhattan Beach Resolution of Fees in addition to the required permit fees.

**Investigation.** Whenever any work for which a permit is required by this code has been commenced without first obtaining said permit, a special investigation shall be made before a permit may be issued for such work.

**Investigation Fee.** An investigation fee, in addition to the permit fee, shall be collected whether or not a permit is then or subsequently issued. The investigation fee shall be equal up to the amount of the permit fee required by this code as determined by the Building Official. The minimum investigation fee shall be determined by the most current Resolution of Fees. 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.

**9.03.060 Violation penalties.**

Section R113.4 is amended to read as follows:

**Section R113.4. Violation penalties.** Any person who violates a provision of this code or fails to comply with any of the requirements thereof or who erects, constructs, alters or repairs a building or structure in violation of the approved construction documents or directive of the building official, or of a permit or certificate issued under the provisions of this code, shall be subject to the penalties as prescribed by law. Every person who willfully resists, delays, obstructs or interferes in any way with any City Building Inspector in the discharge or attempt to discharge any duty of his or her office or employment shall be guilty of a violation of this Chapter

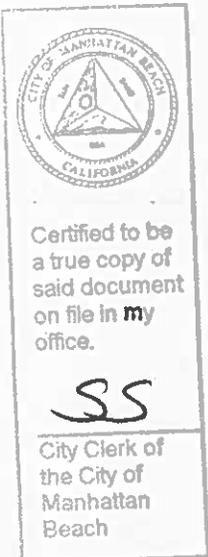
Any person, firm, or corporation violating any of the provisions or failing to comply with any of the mandatory requirements of the ordinances of Manhattan Beach shall be guilty of a misdemeanor. Any person convicted of a misdemeanor under the ordinances of Manhattan Beach shall be punished by a fine of not more than one thousand dollars (\$1,000), or by imprisonment not to exceed six (6) months, or by both such fine and imprisonment. Each such person shall be guilty of a separate offense for each and every day during any portion of which any violation of any provision of the ordinances of Manhattan Beach is committed, continued, or permitted by any such person, and shall be punished accordingly.

**9.03.070 Definitions.**

Section R202 is amended by adding and deleting a definition as follows:

**ADDITION.** An extension or increase in floor area or height of a building or structure. Also, major demolition which includes the removal of roof framing, interior and exterior walls for the purpose of rebuilding with an increase in floor area, shall be considered a new building as determined by the building official.

**ATTIC, HABITABLE.** This definition is deleted.



Section R301.1.3.2 is amended to read as follows:

**Section 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 D<sub>0</sub>, D<sub>1</sub>, D<sub>2</sub> or E.

Table R301.2.2.1.1 and Section R301.2.2.1.2 are amended to read as follows:

**TABLE R301.2.2.1.1  
SEISMIC DESIGN CATEGORY DETERMINATION**

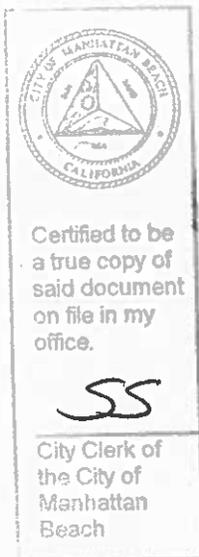
CALCULATED S <sub>DS</sub>	SEISMIC DESIGN CATEGORY
S <sub>DS</sub> ≤ 0.17g	A
0.17g < S <sub>DS</sub> ≤ 0.33g	B
0.33g < S <sub>DS</sub> ≤ 0.50g	C
0.50g < S <sub>DS</sub> ≤ 0.67g	D <sub>0</sub>
0.67g < S <sub>DS</sub> ≤ 0.83g	D <sub>1</sub>
0.83g < S <sub>DS</sub> ≤ 1.00g	D <sub>2</sub>
1.00g < S <sub>DS</sub>	E

**R301.2.2.1.2 Alternative determination of Seismic Design Category E.**

Buildings located in Seismic Design Category E in accordance with Figure R301.2(2) are permitted to be reclassified as being in Seismic Design Category D<sub>2</sub> provided one of the following is done:

1. A more detailed evaluation of the seismic design category is made in accordance with the provisions and maps of the *California Building Code*. Buildings located in Seismic Design Category E per Table R301.2.2.1.1, but located in Seismic Design Category D per the *California Building Code*, may be designed using the Seismic Design Category D<sub>2</sub> requirements of this code.
2. Buildings located in Seismic Design Category E that conform to the following additional restrictions are permitted to be constructed in accordance with the provisions for Seismic Design Category D<sub>2</sub> of this code:
  - 2.1. All exterior shear wall lines or *braced wall panels* are in one plane vertically from the foundation to the uppermost story.
  - 2.2. Floors shall not cantilever past the exterior walls.
  - 2.3. The building is within all of the requirements of Section R301.2.2.2.5 for being considered as regular.
  - 2.4. For buildings over one story in height, the calculated S<sub>DS</sub> shall not exceed 1.25g.

Section R301.2.2.2.5. items 1, 3 and 5, are amended to read as follows:



**R301.2.2.2.5 Irregular buildings**

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.

Section R301.2.2.3.8 is added 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.

Section R401.1 is 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 AF&PA 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).

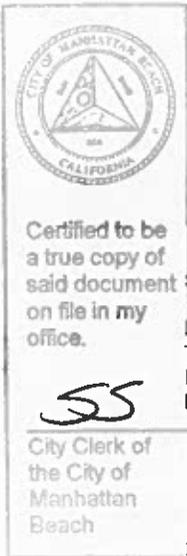
Wood foundations in Seismic Design Category D<sub>0</sub>, D<sub>1</sub> or D<sub>2</sub> shall not be permitted.

**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.

Sections R403.1.2, R403.1.3 and R403.1.5 are amended to read as follows:

**R403.1.2 Continuous footing in Seismic Design Categories D<sub>0</sub>, D<sub>1</sub> and D<sub>2</sub>.**

The braced wall panels at exterior walls of buildings located in Seismic Design Categories D<sub>0</sub>, D<sub>1</sub> and D<sub>2</sub> shall be supported by continuous footings. All required interior braced wall panels in buildings shall be supported by continuous footings.



**R403.1.3 Seismic reinforcing.**

Concrete footings located in Seismic Design Categories D<sub>0</sub>, D<sub>1</sub> and D<sub>2</sub>, as established in Table R301.2(1), shall have minimum reinforcement. Bottom reinforcement shall be located a minimum of 3 inches (76 mm) clear from the bottom of the footing.

In Seismic Design Categories D<sub>0</sub>, D<sub>1</sub> and D<sub>2</sub> where construction joint is created between a concrete footing and a stem wall, a minimum of one No. 4 bar shall be installed at not more than 4 feet (1219 mm) on center. The vertical bar shall extend to 3 inches (76 mm) clear of the bottom of the footing, have a standard hook and extend a minimum of 14 inches (357 mm) into the stem wall.

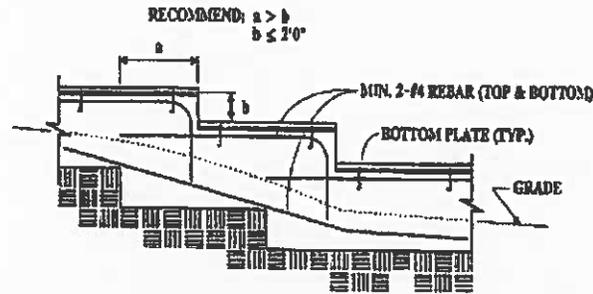
In Seismic Design Categories D<sub>0</sub>, D<sub>1</sub> and D<sub>2</sub> where a grouted masonry stem wall is supported on a concrete footing and stem wall, a minimum of one No. 4 bar shall be installed at not more than 4 feet (1219 mm) on center. The vertical bar shall extend to 3 inches (76 mm) clear of the bottom of the footing and have a standard hook.

In Seismic Design Categories D<sub>0</sub>, D<sub>1</sub> and D<sub>2</sub> masonry stem walls without solid grout and vertical reinforcing are not permitted.

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

**R403.1.5 Slope.** 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 located in Seismic Design Categories D<sub>0</sub>, D<sub>1</sub> or D<sub>2</sub>, 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.



**STEPPED FOUNDATIONS**

**FIGURE R403.1.5  
STEPPED FOOTING**



Certified to be  
a true copy of  
said document  
on file in my  
office.

*SS*  
City Clerk of  
the City of  
Manhattan  
Beach

Section R501.1 is amended to read as follows:

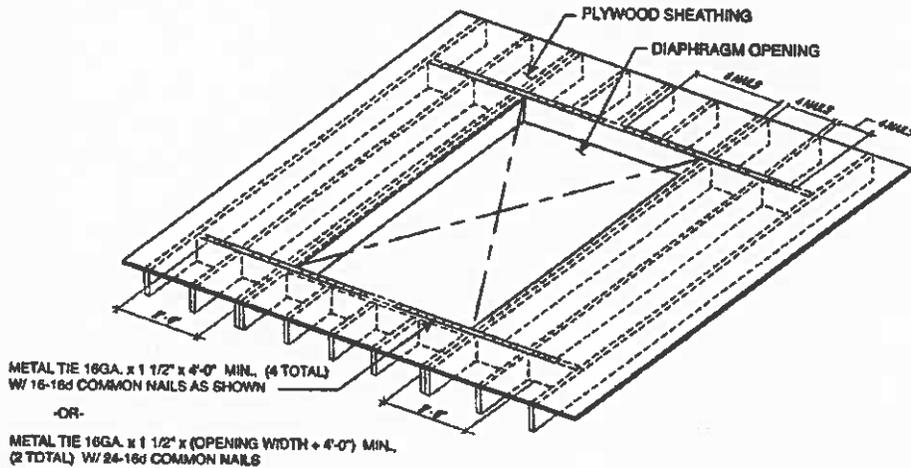
**R501.1 Application.**

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

Section R503.2.4 is added 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**

  
 Certified to be  
 a true copy of  
 said document  
 on file in my  
 office.  
  
 City Clerk of  
 the City of  
 Manhattan  
 Beach

Items 37 and 38 of Table R602.3(1) are amended, and footnote K is added, to read as follows:

TABLE R602.3(1)—continued  
FASTENER SCHEDULE FOR STRUCTURAL MEMBERS

ITEM	DESCRIPTION OF BUILDING MATERIALS	DESCRIPTION OF FASTENER <sup>a,b</sup>	SPACING OF FASTENERS	
			Edge (inches) <sup>c</sup>	Intermediate supports <sup>a,d</sup> (inches)
Wood structural panels, subfloor, roof and interior wall sheathing to framing and particleboard wall sheathing to framing				
32	1/8" - 1/2"	6d common (2" x 0.113") nail (subfloor wall) 8d common (2 1/2" x 0.131") nail (roof)	6	12"
33	3/32" - 1"	8d common nail (2 1/2" x 0.131")	6	12"
34	1 1/2" - 1 3/4"	10d common (3" x 0.148") nail or 8d (2 1/2" x 0.131") deformed nail	6	12
Other wall sheathing <sup>e</sup>				
35	1/2" structural cellulosic fiberboard sheathing	1 1/2" galvanized roofing nail, 7/16" crown or 1" crown staple 16 ga., 1 1/4" long	3	6
36	3/32" structural cellulosic fiberboard sheathing	1 3/4" galvanized roofing nail, 7/16" crown or 1" crown staple 16 ga., 1 1/2" long	3	6
37 <sup>h</sup>	1/2" gypsum sheathing <sup>d</sup>	1 1/2" galvanized roofing nail; staple galvanized, 1 1/2" long; 1 1/4" screws, Type W or S	7	7
38 <sup>h</sup>	3/8" gypsum sheathing <sup>d</sup>	1 3/4" galvanized roofing nail; staple galvanized, 1 1/2" long; 1 1/4" screws, Type W or S	7	7
Wood structural panels, combination subfloor underlayment to framing				
39	3/8" and less	6d deformed (2" x 0.120") nail or 8d common (2 1/2" x 0.131") nail	6	12
40	7/8" - 1"	8d common (2 1/2" x 0.131") nail or 8d deformed (2 1/2" x 0.120") nail	6	12
41	1 1/8" - 1 3/4"	10d common (3" x 0.148") nail or 8d deformed (2 1/2" x 0.120") nail	6	12

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

- a. All nails are smooth-common, box or deformed shanks except where otherwise stated. Nail 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. For regions having basic wind speed of 110 mph or greater, 8d deformed (2 1/2" x 0.120") nails shall be used for attaching plywood and wood structural panel roof sheathing to framing within minimum 48-inch distance from gable end walls, if mean roof height is more than 25 feet, up to 35 feet maximum.
- g. For regions having basic wind speed of 100 mph or less, nails for attaching wood structural panel roof sheathing to gable end wall framing shall be spaced 6 inches on center. When basic wind speed is greater than 100 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.
- h. 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.
- i. Spacing of fasteners on floor sheathing panel edges applies to panel edges supported by framing members and required blocking and at all 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.
- j. 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.
- K. Use of staples in braced wall panels shall be prohibited in Seismic Design Category D0, D1, or D2.

Footnote "b" of Table R602.3(2) 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.



Certified to be  
a true copy of  
said document  
on file in my  
office.

SS

City Clerk of  
the City of  
Manhattan  
Beach

Table R602.10.3(3) is amended to read as follows:

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

<ul style="list-style-type: none"> <li>• SOIL CLASS D*</li> <li>• WALL HEIGHT = 10 FEET</li> <li>• 10 PSF FLOOR DEAD LOAD</li> <li>• 15 PSF ROOFCEILING DEAD LOAD</li> <li>• BRACED WALL LINE SPACING ≤ 25 FEET</li> </ul>			MINIMUM TOTAL LENGTH (FEET) OF BRACED WALL PANELS REQUIRED ALONG EACH BRACED WALL LINE <sup>2</sup>				
Seismic Design Category	Story Location	Braced Wall Line Length (feet)	Method LB <sup>1</sup>	Method GS <sup>4</sup>	Methods DWB, SFB, PBS, PCP, HPB, CS-SFB <sup>3,4</sup>	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 <sub>s</sub>		10	NP	<del>2.8</del> 5.6	<del>2.8</del> 5.6	1.8	1.6
		20	NP	<del>5.5</del> 11.0	<del>5.5</del> 11.0	3.6	3.1
		30	NP	<del>8.3</del> 16.6	<del>8.3</del> 16.6	5.4	4.6
		40	NP	<del>11.0</del> 22.0	<del>11.0</del> 22.0	7.2	6.1
		50	NP	<del>13.8</del> 27.6	<del>13.8</del> 27.6	9.0	7.7
		10	NP	<del>5.3</del> NE	<del>5.3</del> NE	3.8	3.2
		20	NP	<del>10.5</del> NE	<del>10.5</del> NE	7.5	6.4
		30	NP	<del>15.8</del> NE	<del>15.8</del> NE	11.3	9.6
		40	NP	<del>21.0</del> NE	<del>21.0</del> NE	15.0	12.8
		50	NP	<del>26.3</del> NE	<del>26.3</del> NE	18.8	16.0
		10	NP	<del>7.3</del> NE	<del>7.3</del> NE	5.3	4.5
		20	NP	<del>14.5</del> NE	<del>14.5</del> NE	10.5	9.0
		30	NP	<del>21.8</del> NE	<del>21.8</del> NE	15.8	13.4
		40	NP	<del>29.0</del> NE	<del>29.0</del> NE	21.0	17.9
		50	NP	<del>36.3</del> NE	<del>36.3</del> NE	26.3	22.3

(continued)

  
 Certified to be  
 a true copy of  
 said document  
 on file in my  
 office.  
  
 City Clerk of  
 the City of  
 Manhattan  
 Beach

12100-0001\1644828v3.doc

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

SOIL CLASS D <sup>a</sup> 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 <sup>b</sup>					
Seismic Design Category	Story Location	Braced Wall Line Length (feet)	Method LTB <sup>c</sup>	Method GB <sup>d</sup>	Methods DWB, SFB, PBS, PCP, HPS, CS-SFB <sup>e</sup>	Method WSP	Methods CS-WSP, CS-G	
D <sub>1</sub>		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 <sub>2</sub>		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	NP	7.5	6.4
		20	NP	NP	NP	NP	15.0	12.8
		30	NP	NP	NP	NP	22.5	19.1
		40	NP	NP	NP	NP	30.0	25.5
		50	NP	NP	NP	NP	37.5	31.9

For SI: 1 inch = 25.4 mm, 1 foot = 305 mm, 1 pound per square foot = 0.0479 kPa.

- Linear interpolation shall be permitted.
- Wall bracing lengths are based on a soil site class "D." Interpolation of bracing lengths between the  $S_w$  values associated with the Seismic Design Categories shall be permitted when a site-specific  $S_w$  value is determined in accordance with Section 1613.3 of the *International Building Code*.
- Method LTB shall have gypsum board fastened to at least one side with nails or screws per 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.
- Method CS-SFB applies in SDC C only.
- 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.



Certified to be a true copy of said document on file in my office.

SS

City Clerk of the City of Manhattan Beach

Table R602.10.4 is amended to read as follows:

TABLE R602.10.4  
BRACING METHODS 1

METHODS, MATERIAL	MINIMUM THICKNESS	FIGURE	CONNECTION CRITERIA*		
			Fasteners	Spacing	
Intermittent Bracing Method	LTB Let-in-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 Metal straps: per manufacturer	Wood: per stud and top and bottom plates Metal: per manufacturer
	DWB Diagonal wood boards	3/4" (1" nominal) for maximum 24" stud spacing		2-8d (2 1/2" long x 0.113" dia.) nails or 2 - 1 1/4" long staples	Per stud
	WSP Wood structural panel (See Section R604)	3/8" - 15/32"		8d common (2 1/2" x 0.131") nails - Exterior sheathing per Table R602.3(3) 8d common (2 1/2" x 0.131") nails - Interior sheathing per Table R602.3(1) or R602.3(2)	6" edges 12" field Varies by fastener - 6" edges 12" field
	EV-WSP Wood Structural Panels with Stone or Masonry Veneer (See Section R602.10.6.5)	1/16"	Sec 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 3/8" for maximum 16" stud spacing		1 1/2" long x 0.12" dia. (for 1/2" thick sheathing) 1 3/4" long x 0.12" dia. (for 3/8" 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 Nails or screws per Table R702.3.5 for interior locations	For all braced wall panel locations: 7" edges (including top and bottom plates) 7" field
	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	6" o.c. on all framing members
	HPS Hardboard panel siding	1/16" for maximum 16" stud spacing		0.092" 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)



Certified to be a true copy of said document on file in my office.

SS

City Clerk of the City of Manhattan Beach

12100-0001\1644828v3.doc

TABLE R602.10.4—continued  
BRACING METHODS<sup>1</sup>

METHODS, MATERIAL	MINIMUM THICKNESS	FIGURE	CONNECTION CRITERIA <sup>a</sup>		
			Fasteners	Spacing	
Intermittent Bracing Methods	PFB Portal frame with hold-downs	$\frac{1}{2}$ "		See Section R602.10.6.2	See Section R602.10.6.2
	PFG Portal frame at garage	$\frac{1}{16}$ "		See Section R602.10.6.3	See Section R602.10.6.3
Continuous Sheathing Methods	CS-WSP Continuously sheathed wood structural panel	$\frac{1}{8}$ " 15/32"		8d common (2 1/2" x 0.131") nails 1/4" 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 <sup>b</sup> Continuously sheathed wood structural panel adjacent to garage openings	$\frac{1}{8}$ " 15/32"		See Method CS-WSP	See Method CS-WSP
	CS-PF Continuously sheathed portal frame	$\frac{1}{16}$ " 15/32"		See Section R602.10.6.4	See Section R602.10.6.4
	CS-SFB <sup>c</sup> Continuously sheathed structural fiberboard	$\frac{1}{2}$ " or $\frac{23}{32}$ " for maximum 16" stud spacing		1 1/4" long x 0.12" dia. (for 1/2" thick sheathing) 1 3/4" long x 0.12" dia. (for 23/32" 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/m<sup>2</sup>, 1 mile per hour = 0.447 m/s.

- Adhesive attachment of wall sheathing, including Method CB, shall not be permitted in Seismic Design Categories C, D<sub>0</sub>, D<sub>1</sub>, and D<sub>2</sub>.
- Applies to panels next to garage door opening when supporting gable end wall or roof load only. May only be used on one wall of the garage. In Seismic Design Categories D<sub>0</sub>, D<sub>1</sub>, and D<sub>2</sub>, roof covering dead load may not exceed 3 psf.
- Garage openings adjacent to a Method CS-O panel shall be provided with a header in accordance with Table R502.5(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 D<sub>0</sub>, D<sub>1</sub>, and D<sub>2</sub>, and in areas where the wind speed exceeds 100 mph.
- Method applies to detached one- and two-family dwellings in Seismic Design Categories D<sub>0</sub> through D<sub>2</sub> only.
- Methods GB and PCP braced wall panel h/w ratio shall not exceed 1.1 in SDC D<sub>0</sub>, D<sub>1</sub>, or D<sub>2</sub>. Methods LB, DWB, SFB, PFS, HPS, and PFG are not permitted in SDC D<sub>0</sub>, D<sub>1</sub>, or D<sub>2</sub>.
- Use of staples in braced wall panels shall be prohibited in SDC D<sub>0</sub>, D<sub>1</sub>, or D<sub>2</sub>.



Certified to be a true copy of said document on file in my office.

SS

City Clerk of the City of Manhattan Beach

Figure R602.10.6.1 is amended to read as follows:

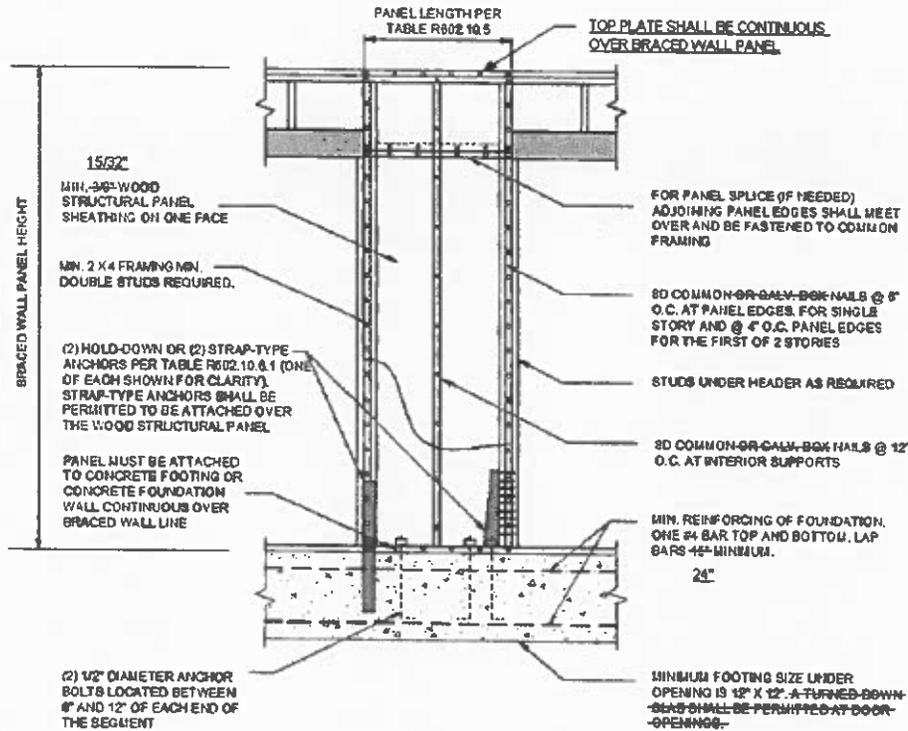


FIGURE R602.10.6.1  
METHOD ABW—ALTERNATE BRACED WALL PANEL

  
 Certified to be  
 a true copy of  
 said document  
 on file in my  
 office.  
  
 City Clerk of  
 the City of  
 Manhattan  
 Beach

Figure R602.10.6.2 is amended to read as follows:

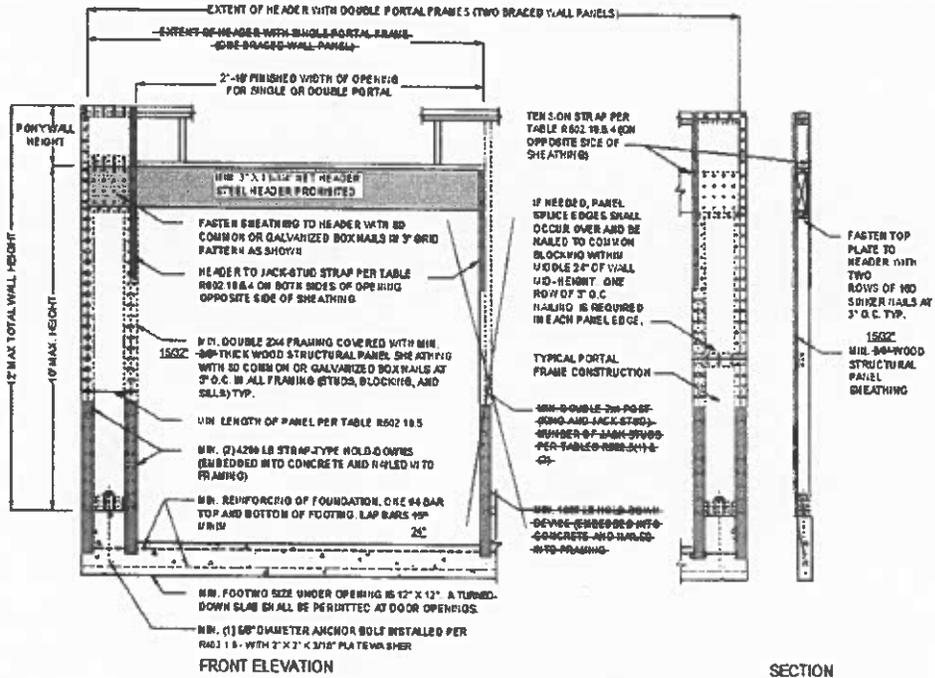


FIGURE R602.10.6.2  
METHOD PFH—PORTAL FRAME WITH HOLD-DOWNS  
AT DETACHED GARAGE DOOR OPENINGS

  
 Certified to be  
 a true copy of  
 said document  
 on file in my  
 office.  
  
 City Clerk of  
 the City of  
 Manhattan  
 Beach

Table R602.10.5 is amended to read as follows:

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

METHOD (See Table R602.10.4)	MINIMUM LENGTH <sup>a</sup> (Inches)					CONTRIBUTING LENGTH (Inches)	
	Wall Height						
	8 feet	9 feet	10 feet	11 feet	12 feet		
DWB, WSP, SFB, PBS, PCP, HPS, BV-WSP	48	48	48	53	58	Actual <sup>b</sup>	
GB	48	48	48	53	58	Double sided = Actual Single sided = 0.5 x Actual	
LIB	55	62	69	NP	NP	Actual <sup>b</sup>	
ABW	SDC A, B and C, wind speed < 110 mph	28	32	34	38	42	48
	SDC D <sub>1</sub> , D <sub>2</sub> and D <sub>3</sub> , wind speed < 110 mph	32	32	34	NP	NP	
PFH	Supporting roof only	16-24	16-24	16-24	18-24	20-24	48
	Supporting one story and roof	24	24	24	27	29	48
PFG		24	27	30	33	36	1.5 x Actual <sup>b</sup>
CS-G		24	27	30	33	36	Actual <sup>b</sup>
CS-PF		16-24	18-24	20-24	22-24	24	Actual <sup>b</sup>
CS-WSP, CS-SFB	Adjacent clear opening height (inches)						Actual <sup>b</sup>
	≤ 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 when it is greater than or equal to the minimum length.  
 c. Maximum header height for PFH is 10 feet in accordance with Figure R602.10.6.2, but wall height may 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 may 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 may be increased to 12 feet with pony wall.

**Certified to be  
a true copy of  
said document  
on file in my  
office.**

*SS*  
12100-0001\1644828v3.doc

City Clerk of  
the City of  
Manhattan  
Beach

Figure R602.10.6.1 is amended to read as follows:

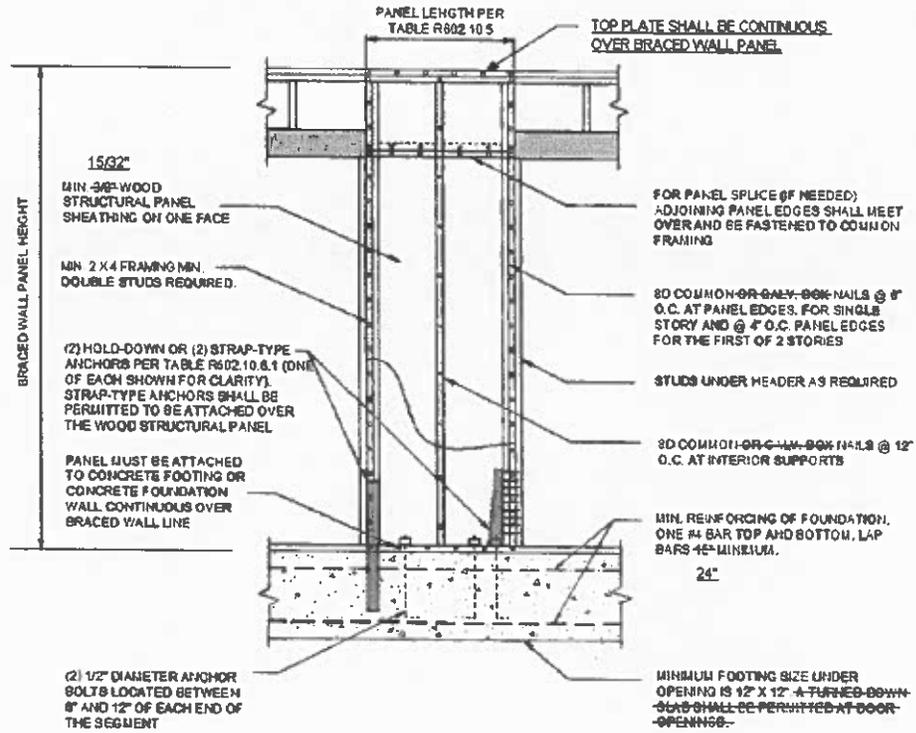


FIGURE R602.10.6.1  
METHOD ABW—ALTERNATE BRACED WALL PANEL

  
 Certified to be  
 a true copy of  
 said document  
 on file in my  
 office.  
  
 City Clerk of  
 the City of  
 Manhattan  
 Beach

Figure R602.10.6.2 is amended to read as follows:

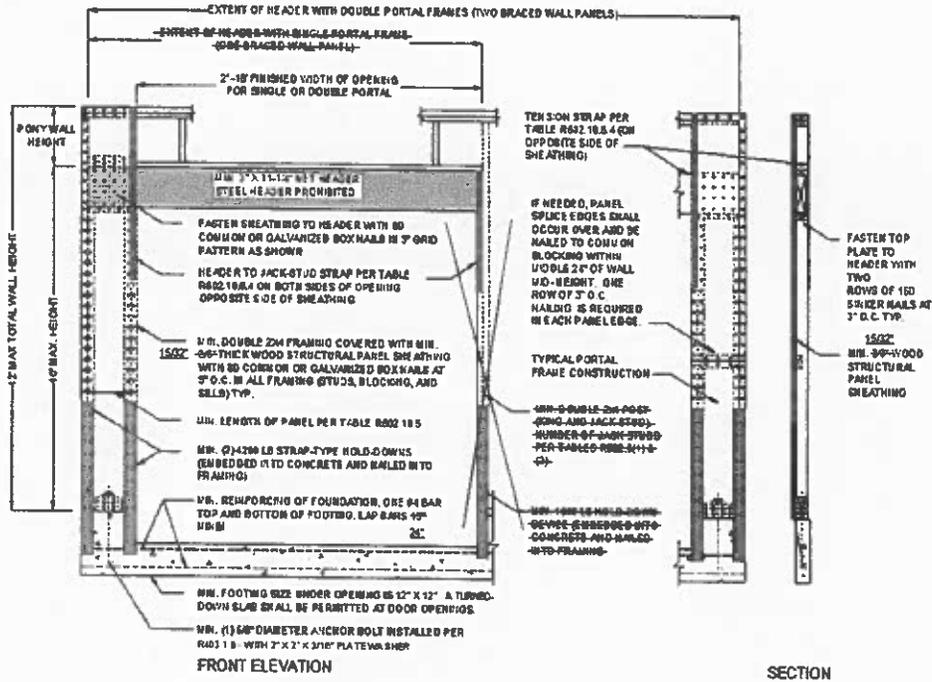
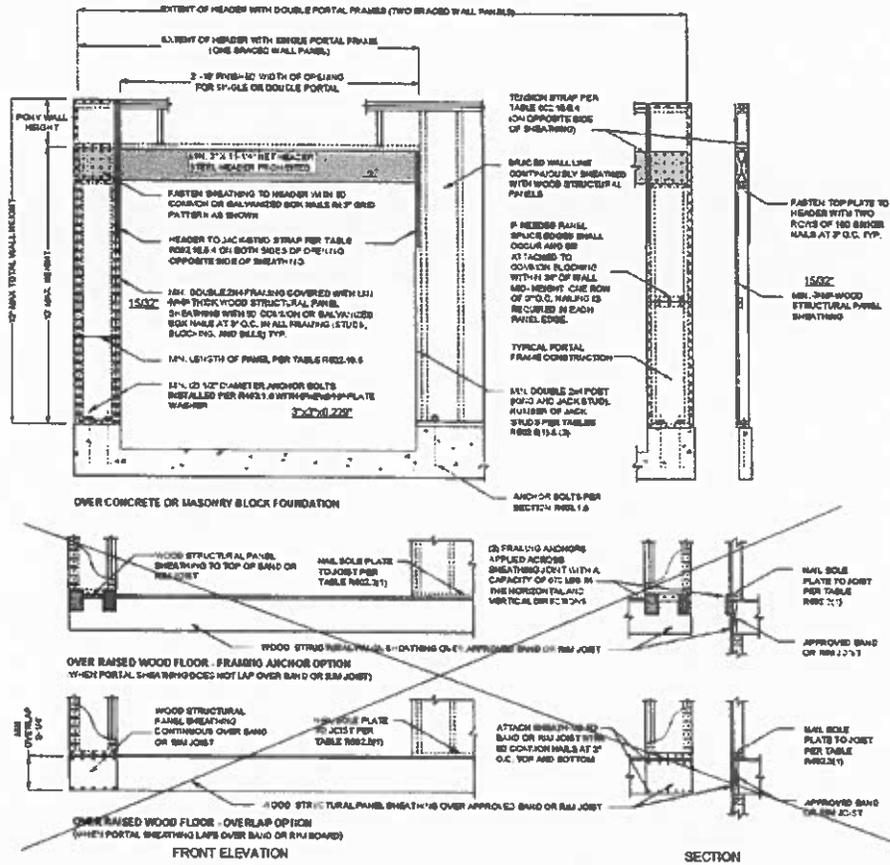


FIGURE R602.10.6.2  
METHOD PFH—PORTAL FRAME WITH HOLD-DOWNS  
AT DETACHED GARAGE DOOR OPENINGS

  
 Certified to be  
 a true copy of  
 said document  
 on file in my  
 office.  
  
 City Clerk of  
 the City of  
 Manhattan  
 Beach

Figure R602.10.6.4 is amended to read as follows:



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



Certified to be  
a true copy of  
said document  
on file in my  
office.

*SS*

City Clerk of  
the City of  
Manhattan  
Beach

12100-0001\1644828v3.doc

Section R602.10.9.1 is deleted in its entirety.

Section R606.2.4 is amended to read as follows:

**R606.2.4 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 D<sub>0</sub>, D<sub>1</sub>, or D<sub>2</sub>, or on townhouses in Seismic Design Category C shall be reinforced in accordance with Section R606.12.

Section R606.12.2.2.3 is 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 Horizontal reinforcement shall be provided within 16 inches (406 mm) of the top and bottom of these masonry elements.
3. 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.

Exception in Section R602.3.2 is amended to read as follows:

**Exception:** In other than Seismic Design Category D<sub>0</sub>, D<sub>1</sub> or D<sub>2</sub>, a single top plate may be installed in stud walls, provided the plate is adequately tied at joints, corners and intersecting walls by a minimum 3-inch-by-6-inch by a 0.036-inch-thick (76 mm by 152 mm by 0.914 mm) galvanized steel plate that is nailed to each wall or segment of wall by six 8d nails on each side, provided the rafters or joists are centered over the studs with a tolerance of no more than 1 inch (25 mm). The top plate may be omitted over lintels that are adequately tied to adjacent wall sections with steel plates or equivalent as previously described.

Section R803.2.4 is added to read as follows:

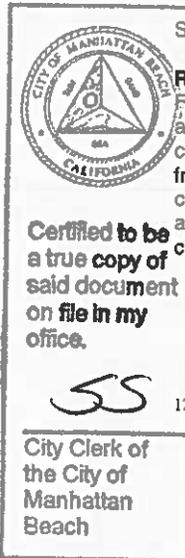
**R803.2.4 Openings in horizontal diaphragms.**

Openings in horizontal diaphragms shall conform with Section R503.2.4.

Section R1001.3.1 is amended to read as follows:

**R1001.3.1 Vertical reinforcing.**

For chimneys up to 40 inches (1016 mm) wide, four No. 4 continuous vertical bars adequately anchored into the concrete foundation shall be placed between wythes of solid masonry or within the cells of hollow unit masonry and grouted in accordance with Section R609. Grout shall be prevented from bonding with the flue liner so that the flue liner is free to move with thermal expansion. For chimneys more than 40 inches (1016 mm) wide, two additional No. 4 vertical bars adequately anchored into the concrete foundation shall be provided for each additional flue incorporated into the chimney or for each additional 40 inches (1016 mm) in width or fraction thereof.



17100-0001\1644828v3.doc

**SECTION 4.** Chapter 9.12 of the Manhattan Beach Municipal Code is amended to read as follows:

**"Chapter 9.12. ELECTRICAL CODE.**

**9.12.010 Adoption of California Electrical Code.**

Pursuant to the provisions of Section 50022.1 to 50022.10, inclusive of the Government Code of the State and subject to the particular additions, amendments, and deletions set forth in this chapter, the rules, regulations, provisions, and conditions set forth in those certain Codes entitled "California Electrical Code, 2013 Edition ("NEC"), " including the Annexes and Tables therein contained, promulgated and published by the National Fire Protection Association of Quincy, Massachusetts and the California Building Standards Commission , including the Annexes and Tables therein contained, one (1) full printed copy of which, printed as a Code in book form, was by the Council ordered filed and which has been actually filed in the office of the City Clerk, expressly incorporated herein and made a part hereof as fully and for all intents and purposes as though set forth herein at length, are hereby established and adopted as the rules, regulations, standards, provisions, and conditions to be observed and followed in the installation, arrangement, alteration, repair, use, and operation of electrical wire connections, fixtures, and other electrical appliances, and subject to the additions, amendments, and deletions set forth in this chapter, said Code with its Annexes and Tables, containing said rules, regulations, standards, provisions, and conditions, is hereby established and adopted by reference, and the same shall be designated, known, and referred to as the "Electrical Code" of and for the City.

**9.12.020 Fees.**

Section 89.108.4.2 is amended by adding the following paragraph:

**ELECTRICAL PERMIT AND ELECTRICAL PLAN REVIEW FEES.** Any person desiring an electrical permit shall, at the time of filing an application therefor, pay to the City fees established by the Council under the Fee Resolution in accordance to the building permit and building plan review fees or may be based on an hourly rate as established in the applicable fee resolution.

**9.12.030 Plans and specifications.**

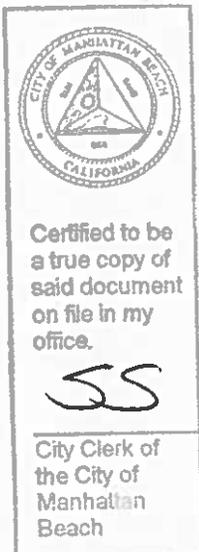
Section 89.108.4.3 is amended by adding the following paragraphs:

**Electrical Plans and Specifications.** When required by the Building Official, electrical plans, specifications, and applications shall be filed and approved by the Building Official prior to any electrical wiring or installations.

Electrical plans and specifications for all occupancies listed in the current adopted Uniform Building Code shall be prepared by an Electrical Engineer who possesses a valid Professional Electrical Engineering Registration issued pursuant to and in accordance with the laws of the State of California. All electrical sheets shall be wet stamped and have a wet signature by the licensed Professional Electrical Engineer.

Residential electrical plans shall include but are not limited to load schedule, wiring diagrams, homeruns, wire sizes, location and size of service panels and subpanels, method of grounding of service. The following must be included:

- (1) All Commercial and Industrial tenant improvements, additions, and service changes.



(2) The mixed Occupancy of R-2 and U Occupancy where U Occupancy is between 1000 and 3000 square feet and over 200 amps.

(3) R-3 Occupancy and U Occupancy when service is over 200 amps.

"Green Sheet" Plans shall be prepared and submitted by a licensed electrical contractor and/or owner/builder under the following conditions:

(1) R-3 Occupancy including new construction, additions, and service changes.

(2) U Occupancy (which is part of the R -3 Occupancy), which does not exceed 1000 square feet in area.

**Exception:** The Building Official may waive the submission of electrical plans, calculations, etc., if it is found that the nature of the work applied for is such that reviewing of electrical plans is not necessary to obtain compliance with this Code.

**9.12.040 Penalties.**

Section 89.108.3.2.6 is added to read as follows:

- (a) Any person, firm, or corporation violating any of the provisions of this Chapter, or of the Electrical Code adopted thereby, shall be guilty of a misdemeanor and upon conviction of any such violation such person shall be punishable by a fine of not more than one thousand dollars or by imprisonment for a period of not to exceed six months, or by both such fine and imprisonment in the discretion of the Court.
- (b) Every such person shall be deemed guilty of a separate offense for each and every day during which, or during any portion of which, any of the provisions of this Code are violated, committed, continued, or permitted by such person, and shall be punishable therefore as herein provided.

**9.12.050 Services undergrounding.**

Section 230-30 is amended by the addition of subsection (5) to read as follows:

(5)Underground Utilities Required. All new buildings and structures in the City of Manhattan Beach shall provide underground electrical and communication service laterals on the premises to be served, as hereinafter required.

(a) New Construction. All electrical, telephone, cable television system, and similar service wires and cables which provide direct service to new main buildings, new accessory buildings, and structures, shall be installed underground in compliance with all applicable building and electrical codes, safety regulations, and orders, rules of the Public Utilities Commission of the State of California, and specifications or standards of the Public Works Department.

(b) Existing Buildings. Such service wires and cables shall also be placed underground when existing buildings, existing accessory buildings, and structures are repaired, remodeled, altered or expanded, except where the value, as determined for building permit fee purposes, by the Building Code of the City of Manhattan Beach, of such repairs or remodeling, or expansion does not exceed fifty percent (50%) of the value of the building or structure as determined by the California Building Code.



Certified to be a true copy of said document on file in my office.

SS

City Clerk of the City of Manhattan Beach

(c) Wiring between the accessory buildings and the main buildings shall be in an underground system.

(d) Responsibility for Compliance. The Contractor and Owner are jointly and severally responsible for complying with the requirements of this section and shall make the necessary arrangements with the utility companies servicing the structure for the installation of such facilities.

If a proposed building or structure would create a situation which would make unreasonable, impractical, or physically impossible the continuance of overhead utility service to an existing adjacent property (or properties), then the Contractor and owner of the proposed building or structure shall be responsible for relocating such utilities per utility company specifications, and shall be installed underground in compliance with all applicable codes, safety regulations, and orders, rules of the Public Utilities Commission of the State of California, and specifications or standards of the Public Works Department.

(e) Appurtenances. For the purpose of this section, appurtenances and associated equipment such as, but not limited to, service mounted transformers, pedestal mounted terminal boxes and meter cabinets may be placed above ground if permitted by and in accordance with the rules of the State Public Utilities Commission.

(f) Waiver of Underground Requirements. If topographical, soil, or any other conditions make such underground installations unreasonable or impractical, a waiver of the requirements of this section may be granted by the Building Official, (a written approval from Southern California Edison is required when necessary) subject to the installation of all necessary electrical conduits, terminal boxes and other appurtenances as may be required to provide underground service in the future.

If the utility pole(s) from which underground service would be provided are not situated on the same side of the public street as the permittee, or not within five (5) feet of the area enclosed by the extension of the side property lines to said public street, the permittee may have the alternative of installing all conduit, wires, pullboxes, electrical panel and other appurtenances which may be required for future underground utility services from the structure to an approved location on the property line of the parcel which will facilitate future underground service; and that the property may continue to be served by overhead wires until said future underground utility conversion.

If a building or structure is served by the rear from utilities not located in the public right-of-way, the permittee may have the alternative of installing all conduit, wires, pullboxes, electrical panel, and other appurtenances which may be required for future underground utility services from the building or structure to an approved location on the property line of the parcel which will facilitate future underground service; and that the property may continue to be served by overhead wires until said future underground utility conversion.

**Exceptions:** This section shall not apply to:

- (i) Utility lines which do not provide service to the area being developed.
- (ii) Detached dwelling units with separate utility services which are not the subject of a common including permit.



**9.12.060 Service equipment.**

Section 230-62 is amended by the addition of subsection (c) to read as follows:

- (c) Single Family Dwellings, Multi-family Industrial and Commercial Structures Service Equipment. The minimum capacity of the service equipment for a single family dwelling, industrial, and commercial structures shall be as follows:
  - (1) A service entry conduit not less than 1-1/2" in diameter of rigid galvanized steel, except 100 amp service may be 1-1/4" rigid galvanized steel.

**9.12.070 Grounding and bonding.**

Section 250-53D. 2. is amended to add the following paragraph to add subsection (e) as follows:

Supplemental electrode required. All services shall have a minimum 5/8" by 8-foot long ground rod added, if not existing, when a new electrical service, water main or repipe is installed.

**9.12.080 Conductor material.**

Section 310.106(B) is amended to read as follows:

- (B) Conductor material. Conductors in this article shall be of copper unless otherwise approved by the Building Official.

**9.12.090 Aluminum conductor material.**

Section 310.15 is deleted.

**9.12.100 Ampacities of various conductors.**

Tables 310.15 (B) (16) - 310.15 (B) (21), including Notes to said Tables, are amended to delete all references to aluminum or copper-clad aluminum.

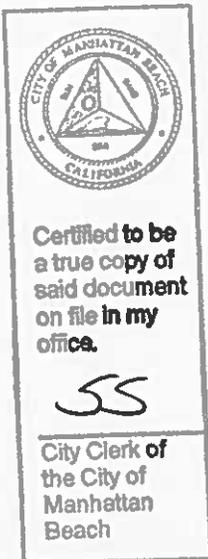
**SECTION 5.** Chapter 9.32 of Title 9 of the Manhattan Beach Municipal Code is amended to read as follows:

**Chapter 9.32: PLUMBING CODE**

**9.32.010 Adoption of California Plumbing Code.**

Pursuant to the provisions of Section 50022.1 to 50022.10, inclusive, of the Government Code of the State and subject to the particular additions, deletions and amendments set forth in this chapter, the rules, regulations, provisions and conditions set forth in that certain Code entitled "California Plumbing Code 2013 Edition," including the Appendices therein contained, promulgated and published by the International Association of Plumbing and Mechanical Officials, one (1) full printed copy of which, printed as a Code in book form were by the Council ordered filed and which have been filed in the office of the City Clerk, expressly incorporated herein and made a part hereof as fully and for all intents and purposes as set forth herein at length, are hereby established and adopted as the rules, regulations, and provisions and conditions to be observed and followed in the moving, removal,

12100-0001\1644828v3.doc



demolition, condemnation, maintenance and use of plumbing, house drainage, house sewers, sanitary sewers, cesspools, septic tanks, gas piping, gas water heater vents, swimming pools, and gas outlets for swimming pool heaters and related subjects, items and matters as set forth in said Code, within the City. Subject to the additions, deletions and amendments set forth in this chapter, said Code, with its said specified sections of Chapter 1, Division II, Appendices B, G, I, and L, is hereby established and adopted by reference, and the same shall be designated, known and referred to as the "Plumbing Code" of and for the City.

**9.32.020 Violations and penalties.**

**Section 102.3.1 is amended to read as follows:**

Any person, firm or corporation violating any provisions of this Code shall be deemed guilty of a misdemeanor and upon conviction thereof shall be punishable by a fine of not to exceed One thousand and no/100<sup>th</sup> (\$1,000.00) Dollars or by imprisonment in the County Jail of the County of Los Angeles, California, for not to exceed six (6) months, or by both such fine and imprisonment. Each separate day or any portion thereof during which any violation of this Code occurs or continues shall be deemed to constitute a separate offense, and upon conviction thereof shall be punishable as herein provided.

The issuance or granting of a permit or approval of plans and specifications shall not be deemed or construed to be a permit for, or an approval of, any violation of any of the provisions of this Code. No permit presuming to give authority to violate or cancel the provisions of this Code shall be valid, except insofar as the work or use which it authorized is lawful.

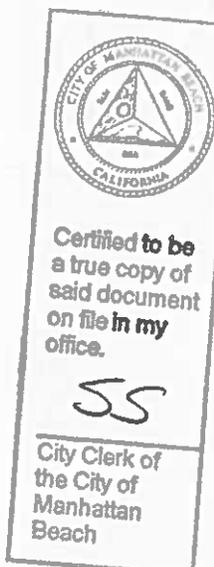
The issuance or granting of a permit or approval of plans shall not prevent the Administrative Authority from thereafter requiring the correction of errors in said plans and specifications or from preventing construction operations being carried on thereunder when in violation of this Code or of any other ordinance or from revoking any certificate of approval when issued in error.

Ever permit issued by the Administrative Authority under the provisions of this Code shall expire by limitation and become null and void, if the work authorized by such permit is not commenced within one hundred eighty (180) days from date of such permit, or if the work authorized by such permit is suspended or abandoned at any time after work is commenced for a period of one hundred eighty (180) days. Before such work can be recommenced, a new permit shall be first obtained, and the fee therefore shall be one-half the amount required for a new permit for such work, provided no changes have been made, or will be made in the original plan and specifications for such work; and provided further, that such suspension or abandonment has not exceeded one (1) year. Whenever any work for which a permit is required by this Code has been commenced without first obtaining said permit, an additional fee shall be collected at the time when the permit is issued. This fee shall be equal to the amount of the permit fees required by the most current City Resolution of Fees.

**9.32.030 Plumbing permit fees.**

Adopt Chapter 1, Division II, to specifically add and amend Section 103.1 of the California Plumbing Code is hereby amended for administrative requirements as follows:

Table 103.4 Plumbing Permit Fees is hereby deleted. The fees shall be determined as required by the most current City Resolution of Fees.



12100-0001\1644828v3.doc

**9.32.040 Graywater systems general.**

Section 1601A.0 is amended as follows:

Exception 1 is deleted for the exemption from permit requirements

SECTION 6. Chapter 9.36 of Title 9 of the Manhattan Beach Municipal Code is amended to read as follows:

**Chapter 9.36. SUSTAINABLE GREEN BUILDING PROGRAM AND ENERGY EFFICIENCY STANDARDS**

**9.36.010 Adoption of California Green Building Standards Code and California Energy Code.**

Pursuant to the provisions of Section 50022.1 to 50022.10, inclusive, of the Government Code of the State and subject to the particular additions, deletions and amendments set forth in this chapter, the rules, regulations, provisions and conditions set forth in that certain Code entitled "California Green Building Standards Code 2013 Edition" and the "California Energy Code 2013 Edition," including the Appendices therein contained, promulgated and published by the California Building Standards Commission, one (1) full printed copy of each, printed as a Code in book form were by the Council ordered filed and which have been filed in the office of the City Clerk, expressly incorporated herein and made a part hereof as fully and for all intents and purposes as set forth herein at length, are hereby established and adopted as the rules, regulations, and provisions and conditions to be observed and followed in the planning, design, operation, construction, demolition, use, occupancy, operations and maintenance regarding the planning, design and construction of buildings and related systems, equipment, and building components for energy efficiency, water efficiency and conservation, material conservation and resource efficiency, and environmental quality enhancement in the City and related subjects, items and matters as set forth in said Code, within the City. Subject to the additions, deletions and amendments set forth in this chapter, said Codes, with said Appendices, are hereby established and adopted by reference, and the California Green Building Standards Code shall be designated, known and referred to as "Sustainable Green Building Program" and the California Energy Code shall be designated, known and referred to as the "Energy Efficiency Standards" of and for the City.

Nothing in this chapter shall require the applicant to use covered products, as defined in the federal Energy Policy and Conservation Act (42 U.S.C. §6201 et seq.), that exceed any applicable federal energy conservation standards for such products.

**9.36.020 Program and purpose.**

A. This section sets forth a Sustainable Green Building Program as well as minimum Energy Efficiency Standards within the City of Manhattan Beach for new construction and renovation as set forth below.

B. The purpose of the chapter is to enhance the public health and welfare by promoting the environmental and economic health of the City through the design, construction, maintenance, operation and demolition of buildings and other site development by incorporating sustainable building practices into all development. The sustainable building provisions referred to in this chapter are designed to achieve the following goals:

1. Increase energy efficiency in buildings;
2. Encourage water and resource conservation through efficient fixtures and irrigation, recycled and renewable materials;



3. Improve indoor air quality; increased natural lighting, and improved thermal comfort/control.
3. Reduce waste generated by construction projects;
4. Provide durable buildings that are efficient and economical to own and operate; and
5. Promote the health and productivity of residents, workers, and visitors to the City.

**9.36.030 Definitions.**

**City:** the City of Manhattan Beach, State of California

**City building:** a building primarily funded by the City or on City owned land.

**Compliance official:** the Building Official or his or her designee.

**Good faith effort:** a project that has not met the required compliance threshold, but for extenuating reasons, the Compliance official has found the project meets the good faith effort provisions of Section 9.36.060.

**LEED™:** the "Leadership in Energy and Environmental Design" green building rating system developed by the U.S. Green Building Council (USGBC).

**LEED® AP:** A person who has been designated a LEED Accredited Professional by the Green Building Certification Institute (GBCI).

**LEED™ checklist:** The credit and point checklists developed by the Leadership in Energy and Environmental Design Green Building Rating System for measuring the sustainability, efficiency, and environmental soundness of a building.

**Project:** Any proposal for new or changed use, or for new construction, alteration, or enlargement of any structure, that is subject to the provisions of this title.

**Renovation:** any rehabilitation, repair, remodeling, change, or modification to an existing building, where changes to floor area and the footprint of the building are negligible. The valuation of renovation improvements shall be determined by the Director of Community Development per Section 10.68.030(E) of the Manhattan Beach Municipal Code. Additionally, the compliance official may exclude from such valuation the cost of (a) seismic upgrades, (b) accessibility upgrades, or (c) photovoltaic panels or other solar energy or similar devices exterior to the building.

**Sustainable building rating system:** the rating system associated with specific sustainable building criteria and used to determine compliance thresholds. An example of a rating system includes, but is not limited to, the LEED rating system.

**9.36.040 Applicability.**

- A. Projects meeting the following thresholds and for which no use permit, variance, vesting subdivision, or any other discretionary Planning approval has been granted, or for which no valid building permit has been lawfully issued by the City prior to the effective date of this ordinance shall comply with the provisions of this chapter:
  1. City buildings of 5,000 square feet or more of new "gross floor area" (new construction), as defined by Section 10.04.030.
  2. Renovations of or in City buildings of 5,000 gross square feet or more, where the project exceeds the total building replacement valuation of 50% of the entire existing building as

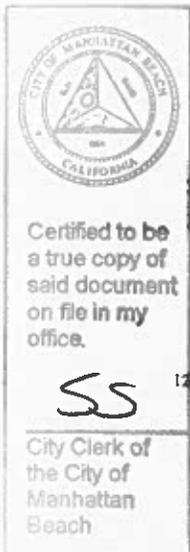


defined by Section 10.68.030(E) of the Manhattan Beach Municipal Code. For the purposes of this section, estimated construction and reconstruction costs shall be determined by the Community Development Director in the same manner as the Community Development Director determines final valuation for the purposes of building permit fees.

3. Non-residential buildings of 10,000 square feet or more of "new gross floor area" (new construction) as defined by Section 10.04.030.
4. Renovations of or in non-residential buildings 10,000 gross square feet or greater, where the project exceeds the total building replacement valuation of 50% of the entire existing building as defined by Section 10.68.030(E) of the Manhattan Beach Municipal Code. For the purposes of this section, estimated construction and reconstruction costs shall be determined by the Community Development Director in the same manner as the Community Development Director determines final valuation for the purposes of building permit fees.

**9.36.050 Standards for compliance:**

- A. The City shall adopt by reference the USGBC LEED™ green building rating system as the standard for which a project shall be measured as a green building. Requiring projects to incorporate LEED™ green building measures is necessary and appropriate to achieve the benefits of green building. The specific actions required for project compliance with this chapter are as follows:
1. All applicable projects are required to retain the services of a LEED® Accredited Professional who is accredited in the appropriate category for the project as determined by the Compliance official and complete LEED™ project registration prior to issuance of a building permit.
  2. All applicable projects shall submit a LEED checklist and supporting documentation indicating points meeting at a minimum LEED 'Silver' level incorporated into documentation for a building permit. Projects as described in Section 9.36.040 subsections 3. and 4. of 10,000 square feet or more of new gross square footage or more than 50% renovation shall meet LEED 'Silver' level. These projects would include, but not limited to, typical office, retail, medical, private club, religious, and academic buildings with occupied and conditioned spaces. A signed declaration from the LEED AP member of the Project team, stating that the plans and plan details have been reviewed, and that the Project meets the intent of the criteria for certification of the selected LEED™ Rating System. The LEED checklist shall be prepared, signed, and dated by the project LEED accredited professional. All building documents shall indicate in the general notes and/or individual detail drawing, where feasible, the green building measures employed to attain the applicable LEED rating.
  3. Applicable City buildings are required to attain LEED certification and meet, at a minimum LEED 'Gold' rating.
  4. Building commissioning, although specified as a prerequisite for LEED™ certification, is not required for applicable projects under this chapter except for City buildings. Applicants are encouraged to verify that fundamental building systems are designed, installed, and calibrated to operate as intended.
  5. All projects must demonstrate compliance with 2013 or the most recent California Energy Efficiency Standards (Title 24, Part 6) by submitting all required forms and calculations for review and approval by compliance official.



12:00-0001\1644828v3.doc

**9.36.060 Compliance official's responsibilities**

- A. The compliance official shall review the required LEED™ checklist and supporting documentation prior to issuance of a grading or building permit. Compliance official will use the appropriate LEED™ scoring system applicable to project and categories within it.
- B. The compliance official shall verify that the building measures and provisions indicated on the project LEED™ checklist and on the supporting approved documentation, including approved plan sets, are being implemented at foundation inspection, framing inspection, and prior to issuance of a final certificate of occupancy.
- C. The compliance official shall conduct any inspections as needed to ensure compliance with this chapter.

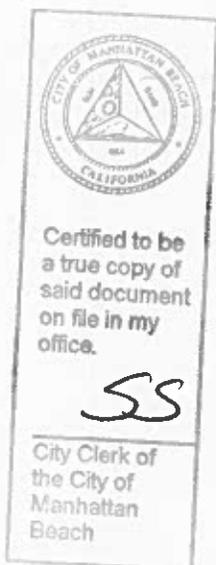
**9.36.070 Penalties and administrative remedies**

- A. If, as a result of any inspection, the compliance official determines that the applicable project does not comply with the approved documentation, a stop work order may be issued. At the discretion of the compliance official or designee such a stop work order may apply to the portion of the project impacted by noncompliance or to the entire project. The stop work order shall remain in effect until the compliance official determines that the project is in compliance with the requirements of this chapter.
- B. If the compliance official determines that the applicable project has not met the requirements of the LEED™ checklist, as set forth in section 9.36.060 of this chapter, he or she shall determine on a case by case basis whether the applicant has made a good faith effort to comply with this chapter. In making this determination, the compliance official shall consider the availability of markets for materials to be recycled, the availability of sustainable building materials and technologies, and the documented efforts of the applicant to comply with this chapter. The compliance official or designee may require additional reasonable sustainable building measures be included in the operation of the covered project to mitigate the failure to comply fully with this chapter.

**9.36.080 Mandatory and voluntary requirements.**

Section 101.10 of the California Green Building Standards Code is hereby amended to read as follows:

**101.10 Mandatory and voluntary requirements.** This code contains both mandatory and voluntary green building measures. Mandatory and voluntary measures are identified in the appropriate application checklist contained in this code. The mandatory measures of Chapter 4 are applicable to residential buildings except where specifically amended hereinafter. The mandatory measures of Chapter 5 are applicable to all buildings which are nonresidential buildings except where specifically amended hereinafter. The Mandatory measures of Chapter 5 and voluntary measures of Appendix A5 are applicable to all buildings, which qualify for conditions of section 9.36.040 except where specifically amended hereinafter.



**9.36.090 Residential building**

Section 301.1.1 of the California Green Building Standards Code is amended to read as follows:

**Additions and alterations. (HCD)** The Mandatory provisions of Chapter 4 shall be applied to additions or alterations of existing residential buildings within the specific area of the addition or alteration. Code sections relevant to additions and alterations shall only apply to the portions of the building being added or altered within the scope of permitted work.

**9.36.120 Material conservation and resource efficiency**

Section 4.408 of the California Green Building Standards Code is amended to read as follows:

**4.408.1 [Residential] Construction waste reduction of at least 65% Recycle and/or salvage for reuse a minimum of 65 percent of the nonhazardous construction and demolition debris.** See Municipal Code sections: 5.26.010 Definitions: "Diversion Requirement," 5.26.050 Review of Waste Management Plan, and 5.26.060 Compliance with Waste Management Plan

**4.408.4 Waste Stream reductions alternative.** Projects that generate a total combined weight of construction and demolition waste disposal of in landfills, which do not exceed four (4) lbs. /sq. ft. of the building area shall meet the construction waste reduction requirements of section 4.408.1.

**4.408.4.1 Waste stream reduction alternative. [HR].** Projects that generate a total combined weight of construction and demolition waste disposal of in landfills, which do not exceed two (2) pounds per square foot of the building area, shall meet the construction waste reduction requirements of section 4.408.1.

Section 5.408 of the California Green Building Standards Code is amended to read as follows:

**5.408.1 Construction waste management.** Recycle and/or salvage for reuse a minimum of 65 percent of the nonhazardous construction and demolition debris. See Municipal Code sections: 5.26.010 Definitions: "Diversion Requirement," 5.26.050 Review of Waste Management Plan, and 5.26.060 Compliance with Waste Management Plan. Calculate the amount of materials diverted by weight or volume, but not by both.

**5.408.1.3 Waste stream reduction alternative.** The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the minimum requirements of section 5.408.1.

**9.36.130 Environmental quality**

Section 4.501.1 of the California Green Building Standards Code is amended to read as follows:

**4.501.1 [Residential] Scope and applicability** The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors. Requirements for adhesives, sealants, caulks, and finishes shall apply to any construction. Fireplace Section 4.503 shall apply to any new gas fireplaces.

  
Certified to be  
a true copy of  
said document  
on file in my  
office.  
  
*SS*  
1210-0001\1644828v3.doc  
City Clerk of  
the City of  
Manhattan  
Beach

Section 4.503 of the California Green Building Standards Code is amended to read as follows:

**4.503.1 Fireplaces – General.** Any installed gas fireplace shall be a direct-vent sealed-combustion type with a 65% thermal efficiency. Any installed woodstove or pellet stove shall comply with the U.S. EPA Phase II emission limits where applicable. Woodstoves, pellet stoves and fireplaces shall also comply with applicable local ordinances.

Section 5.501.1 of the California Green Building Standards Code is amended to read as follows:

**5.501.1 [Nonresidential] Scope and Applicability** The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors. Requirements for adhesives, sealants, caulks, and finishes shall apply to any construction or renovation. Fireplace Section 5.503 shall apply to any new gas fireplaces.

Section 5.503 of the California Green Building Standards Code is amended to read as follows:

**5.503.1 Fireplaces – General.** Install only direct-vent sealed-combustion type with a 65% thermal efficiency gas or fireplace. Refer to residential requirements in the *California Energy Code*, Title 24, Part 6, Subchapter 7, Section 150. Woodstoves, pellet stoves and fireplaces shall comply with applicable local ordinances.

#### **9.36.140 California Energy Code**

Section 110.4(b)(2) of the California Energy Code are amended to read as follows:

**110.4 (b) 2. Covers.** A thermal cover or blanket rated at not less than R-2 for outdoor pools or outdoor spas that have a heat pump or gas heater."

SECTION 7. Chapter 9.64 of Title 9 of the Manhattan Beach Municipal Code is amended to read as follows:

#### **Chapter 9.64: MECHANICAL CODE**

##### **9.64.010 Adoption of California Mechanical Code.**

Pursuant to the provisions of Section 50022.1 to 50022.10, inclusive, of the Government Code of the State and subject to the particular additions, deletions and amendments set forth in this chapter, the rules, regulations, provisions and conditions set forth in that certain Code entitled "California Mechanical Code 2013 Edition," including Appendix A therein contained, promulgated and published by the International Association of Plumbing and Mechanical Officials of. One (1) full printed copy of which, printed as a Code in book form were by the Council ordered filed and which have been filed in the office of the City Clerk, expressly incorporated herein and made a part hereof as fully and for all intents and purposes as set forth herein at length, are hereby established and adopted as the rules, regulations, provisions and conditions to be observed and followed in the erection, installation, alteration, repair, relocation, replacement, addition to, use or maintenance of any heating ventilating, comfort cooling, refrigerator systems, incinerators, or other miscellaneous heat producing appliances in the city; and subject to the additions, deletions, and amendments set forth in this chapter, said Code with Appendix A, containing said rules, regulations, standards, provisions, and conditions is hereby established and adopted by reference, and the same shall be designated, known and referred to as the "Mechanical Code" of and for the City.

12100-0001\1644828v3.doc



**9.64.020 Violations and penalties.**

Section 111.1 is amended to read as follows

Any person, firm or corporation violating any provisions of this Code shall be deemed guilty of a misdemeanor and upon conviction thereof shall be punishable by a fine of not to exceed One Thousand and no/100<sup>th</sup> (\$1,000.00) Dollars or by imprisonment in the County Jail of the County of Los Angeles, California, for not to exceed six (6) months, or by both such fine and imprisonment. Each separate day or any portion thereof during which any violation of this Code occurs or continues shall be deemed to constitute a separate offense, and upon conviction thereof shall be punishable as herein provided. The issuance or granting of a permit or approval of plans and specifications shall not be deemed or construed to be a permit for, or an approval of, any violation of any of the provisions of this Code. No permit presuming to give authority to violate or cancel the provisions of this Code shall be valid, except insofar as the work or use which it authorized is lawful.

The issuance or granting of a permit or approval of plans shall not prevent the Administrative Authority from thereafter requiring the correction of errors in said plans and specifications or from preventing construction operations being carried on thereunder when in violation of this code or of any other ordinance or from revoking any certificate of approval when issued in error.

**9.64.030 Mechanical permit fees.**

Section 114.1 is amended to read as follows:

**114.1 General**

Table 114.1 Mechanical Permit Fees is hereby deleted. The fees shall be determined as required by the most current City Resolution of Fees."

**SECTION 8.** Chapter 5.26 of Title 5 of the Manhattan Beach Municipal Code entitled CONSTRUCTION AND DEMOLITION DEBRIS WASTE REDUCTION AND RECYCLING REQUIREMENTS is amended as provided in this Section.

Section 5.26.010 is amended by revising the following definition to read as follows:

**Definitions. K.** "Diversion requirement" means the redirection of at least sixty-five percent (65%) of the total construction and demolition debris generated by a project via reuse or recycling, unless the applicant has been granted an exemption pursuant to Section 5.26.070 of this chapter, in which case the diversion requirement shall be the maximum feasible diversion rate established by the WMP Compliance Official for the project.

Section 5.26.050 Review of Waste Management Plan, Subsections A.2. and B, are amended as follows:

**A.2.** WMP must indicate that at least sixty-five percent (65%) of all C & D debris generated by the project will be diverted.

**B. Nonapproval.** If the WMP Compliance Official determines that the WMP is incomplete or fails to indicate that at least sixty-five percent (65%) of all C & D debris generated by the project will be reused or recycled, he or she shall either:



Certified to be a true copy of said document on file in my office.

SS

City Clerk of the City of Manhattan Beach

Section 5.26.060 A. is amended by revising the first four (4) sentences to read as follows:

**5.26.060 A. Documentation.** Prior to the final building approval, the applicant shall submit to the WMP Compliance Official documentation that it has met the diversion requirement for the project. If the applicant does not submit the required documentation, he or she may be subject to an administrative penalty or enforcement action as described in Sections 5.26.040 and 5.26.080 of this chapter. The diversion requirement shall be that the applicant must divert at least sixty-five percent (65%) of the total C & D debris generated by the project via reuse or recycling. Provided, however, that an applicant granted an exemption pursuant to Section 5.26.070 of this chapter shall be required to comply with the maximum feasible diversion rate established by the WMP Compliance Official for that project. [The balance of this subsection remains unchanged.]

**SECTION 9.** Any provisions of the Manhattan Beach Municipal Code, or appendices thereto, or any other ordinances of the City, to the extent that they are inconsistent with this ordinance, and no further, are hereby repealed.

**SECTION 10.** If any section, subsection, sentence, clause, or phrase of this ordinance is for any reason held to be invalid or unconstitutional by the decision of any court of competent jurisdiction, such decision shall not affect the validity of the remaining portions of the ordinance. The City Council hereby declares that it would have passed this ordinance and each section, subsection, sentence, clause, and phrase thereof, irrespective of the fact that any one or more sections, subsections, sentences, clauses, or phrases be declared invalid or unconstitutional.

**SECTION 11.** If any section, subsection, sentence, clause, or phrase of this ordinance is for any reason held to be invalid or unconstitutional by the decision of any court of competent jurisdiction, such decision shall not affect the validity of the remaining portions of the ordinance. The City Council hereby declares that it would have passed this ordinance and each section, subsection, sentence, clause, and phrase thereof, irrespective of the fact that any one or more sections, subsections, sentences, clauses, or phrases be declared invalid or unconstitutional.

**SECTION 12.** This notice shall be published by one insertion in *The Beach Reporter*, the official newspaper of the City, and this ordinance shall take effect and be in full force and operation thirty (30) days after its final passage and adoption.

**SECTION 13.** The City Clerk shall certify to the adoption of this ordinance; shall cause the same to be entered in the book of original ordinances of said City; shall make a minute of the passage and adoption thereof in the records of the meeting at which the same is passed and adopted; and shall within fifteen (15) days after the passage and adoption thereof cause the same to be published by one insertion in *The Beach Reporter*, the official newspaper of the City and a weekly newspaper of general circulation, published and circulated within the City of Manhattan Beach hereby designated for that purpose.

**SECTION 14.** This Ordinance will become effective at 12:01 a.m. on January 1, 2014



Certified to be  
a true copy of  
said document  
on file in my  
office.

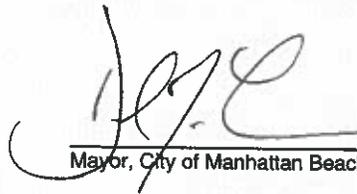
SS

City Clerk of  
the City of  
Manhattan  
Beach

**SECTION 15.** The City Clerk shall cause a summary of this Ordinance to be published as provided by law. The summary shall be published and a certified copy of the full text of this Ordinance shall be posted in the Office of the City Clerk at least five (5) days prior to the City Council meeting at which this Ordinance is to be adopted. Within fifteen (15) days after the adoption of this Ordinance, the City Clerk shall cause a summary to be published with the names of those City Council members voting for and against this Ordinance and shall post in the Office of the City Clerk a certified copy of the full text of this Ordinance along with the names of those City Council members voting for and against the Ordinance.

PASSED, APPROVED and ADOPTED this 19th day of November, 2013.

Ayes:  
Noes:  
Abstain:  
Absent:

  
\_\_\_\_\_  
Mayor, City of Manhattan Beach, California

ATTEST:

  
\_\_\_\_\_  
City Clerk



Certified to be a true copy  
of the original of said  
document on file in my  
office.

  
\_\_\_\_\_  
City Clerk of the City of  
Manhattan Beach, California

# Justifications

- Justifications must be filed along with the amendments with the California Building Standards Commission
  - California Building Standards Commission
  - 2525 Natomas Park Drive, Suite 130
  - Sacramento, California 95833
  - Attention: James McGowan
- Certified mail with return receipt requested
- CBSC will acknowledge receipt
  - CBSC will not evaluate justifications or amendments
  - CBSC files a copy