BUILDING STANDARDS COMMISSION
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February 15, 2011

George A. Estrella, Chief Building Official
Community Development Department
City of Santa Barbara
630 Garden Street
Santa Barbara, CA 93101

Dear Mr. Estrella:

This letter is to acknowledge receipt on December 17, 2010 of the City of Santa Barbara submittal pertaining to Ordinance No. 5536 with findings and is acceptable for filing. Your filing attests to your understanding that according to Health and Safety Code Section 17958.7 no modification or change to the California Building Standards Code shall become effective or operative for any purpose until the finding and the modification or change have been filed with the California Building Standards Commission (the Commission).

This letter attests only to the filing of these local modifications with the Commission, which is not authorized by law to determine the merit of the filing.

As a reminder, local modifications are specific to a particular edition of the Code. They must be readopted and filed with the Commission in order to remain in effect when the next triennial edition of the Code is published. In addition, should you receive Fire Protection District ordinances for ratification, it is required to submit the ratified ordinances to the Department of Housing and Community Development [H&SC Section 13869.7(c)], attention State Housing Law Program Manager, rather than the Commission.

If you have any questions or need any further information, you may contact me at (916) 263-0916.

Sincerely,

Enrique M. Rodriguez
Associate Construction Analyst

cc: Chron
Local Filings

City of Santa Barbara

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December 14, 2010

California Building Standards Commission
2525 Natomas Park Drive, Suite 130
Sacramento, CA 95833-2936

SUBJECT: CITY OF SANTA BARBARA, CA - ADOPTING ORDINANCE NO 5536 OF FINDINGS AND AMMENDMENTS TO THE 2010 CALIFORNIA CODE OF REGULATIONS

Dear Building Standards Commission:

Please file the attached City of Santa Barbara Ordinance adopting findings and amendments to the 2010 California Code of Regulations.

Should you have any questions, please contact met at (805) 564-5553 or by email at: gestrella@santabarbaraca.gov

Sincerely,

George A. Estrella
Chief Building Official
City of Santa Barbara

File

2010 DEC 17 P 1:32
CALIFORNIA BUILDING
STANDARDS COMMISSION

ORDINANCE NO. 5536

AN ORDINANCE OF THE COUNCIL OF THE CITY OF SANTA BARBARA AMENDING SANTA BARBARA MUNICIPAL CODE CHAPTER 22.04, ADOPTING BY REFERENCE THE CALIFORNIA STATE BUILDING CODES AND OTHER RELATED CODES; ADOPTING LOCAL REVISIONS TO THOSE CODES; AND REPEALING ORDINANCE NUMBERS 5440 AND 5451

WHEREAS, uniform construction codes are developed and published every three years by the professional organization of building official experts;

WHEREAS, these codes are adopted by the State of California and by local communities with amendments pertinent to local conditions;

WHEREAS, the City of Santa Barbara relies on local ground and surface water for its local water supplies;

WHEREAS, drought conditions are common occurrences within Santa Barbara and the surrounding areas;

WHEREAS, local topography and climate present unique fire hazard and fire abatement conditions;

WHEREAS, local geological conditions present unique geophysical hazards; and

WHEREAS, the City Council of the City of Santa Barbara finds that such local geological, topographic and climatic conditions warrant certain amendments to the model uniform codes related to construction.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF SANTA BARBARA DOES ORDAIN AS FOLLOWS:

SECTION 1. Section 22.04.010 of Chapter 22.04 of Title 22 of the Santa Barbara Municipal Code is adopted to read as follows:

22.04.010 Adoption of California Codes by Reference.

Subject to the amendments specified in Sections 22.04.020 through 22.04.070, the following Codes, certain appendix chapters, and the standards and secondary codes referenced therein are adopted and shall be known as the City of Santa Barbara Building Code.

A. The "California Administrative Code" (2010 Edition), as published by the International Code Council (also known as Part 1 of Title 24 of the California Code of Regulations).

B. The "California Building Code" (2010 Edition), as published by the International Code Council (also known as Part 2 of Title 24 of the California Code of Regulations), including Appendix Chapters B, G, I & J.

C. The "California Residential Code" (2010 Edition), as published by the International Code Council (also known as Part 2.5 of Title 24 of the California Code of Regulations) excluding all appendices.

D. The "California Electrical Code" (2010 Edition), as based on the 2008 National Electrical Code (also known as Part 3 of Title 24 of the California Code of Regulations).

E. The "California Mechanical Code" (2010 Edition), as based on the 2009 Uniform Mechanical Code, as published by the International Association of Plumbing and Mechanical Officials (also known as Part 4 of Title 24 of the California Code of Regulations).

F. The "California Plumbing Code" (2010 Edition), as based on the 2009 Uniform Plumbing Code as published by the International Association of Plumbing and Mechanical Officials (also known as Part 5 of Title 24 of the California Code of Regulations), including the Installation Standards and Appendix Chapters G & K.

G. The "California Energy Code" (2010 Edition), as published by the International Code Council (also known as Part 6 of Title 24 of the California Code of Regulations).

H. The "California Historical Building Code" (2010 Edition), as published by the International Code Council (also known as Part 8 of Title 24 of the California Code of Regulations).

I. The "California Existing Building Code" (2010 Edition), as published by the International Code Council (also known as Part 10 of Title 24 of the California Code of Regulations).

J. The "California Green Building Code" (2010 Edition), as published by the International Code Council (also known as Part 11 of Title 24 of the California Code of Regulations).

K. The "International Property Maintenance Code" (2009 Edition), as published by the International Code Council.

L. The "Uniform Code for the Abatement of Dangerous Buildings" (1997 Edition), as published by the International Code Council.

SECTION 2. Section 22.04.020 of Chapter 22.04 of Title 22 of the Santa Barbara Municipal Code is adopted to read as follows:

22.04.020 Amendments to the California Building Code.

The California Building Code, as adopted by reference pursuant to this Chapter, is amended as set forth in this Section 22.04.020.

A. Section 105.1 of the California Building Code is amended by adding Sections 105.1.3 and 105.1.4 to read as follows:

105.1.3 Paving and Striping. Building permits shall be required for all paving, re-paving (including slurry coating), striping, re-striping, signage, and re-signage of parking spaces in parking lots and structures. Accessible parking spaces, access aisles, and signage shall be provided that meets currently adopted codes.

105.1.4 Demolition Permits. Permits shall be required to demolish any building, portion of a building, or structure within the City of Santa Barbara and shall be subject to the following conditions:

1. The applicant shall have all gas, electric, and water meters removed by the appropriate utility company, except such services that are approved for required use in connection with the work of demolition. The applicant shall also have a Project Clearance form signed by the utility company representatives and the Santa Barbara County Air Pollution Control District prior to the permit being issued. Exception: Portions of buildings which will not be demolished where the electrical, gas, and water services and meters are not affected.

2. All resulting building debris, trash, junk, vegetation, dead organic matter, rodent harborage, or combustible material that constitutes a threat to life, health, or property, or is detrimental to the public welfare or which may reduce adjacent property value shall be removed from the site within thirty (30) days after the demolition of the structure.

B. Section 105.2 of the California Building Code is amended to read as follows:

Section 105.2 Work exempt from permit. Exemptions from permit requirements of this code shall not be deemed to grant authorization for any work to be done in any manner in violation of the provisions of this code or any other laws or ordinances of this jurisdiction. Permits shall not be required for the following:

Building:

1. One-story detached residential accessory structures used as tool and storage sheds, playhouses, portable and fixed playground equipment, bicycle or skateboard ramps and similar uses, provided the floor area does not exceed 120 square feet (11 m2) and the height does not exceed ten (10) feet at the highest point; and further provided the structure does not encroach into required setbacks or required open yards, does not obstruct required parking, and is not served by any utilities. The combined square footage of exempt accessory structures may not exceed 200 square feet on any single parcel.

2. Residential fences and walls not over 3 ½ feet high, as measured from the lowest adjacent grade within 5 feet of the fence or wall, that do not adversely affect drainage or cause erosion.

3. Freestanding or movable cases, counters, and interior partitions not over 5 feet 9 inches in height, and not containing or requiring connections to electrical power or plumbing systems. A layout plan may be required as part of a tenant improvement project to ensure that the locations of these units does not interfere with the required exit and/or accessible paths of travel.

4. Residential retaining walls which are not over 4 feet in height as measured from the bottom of the footing to the top of the wall, unless supporting a surcharge or impounding flammable liquids, is installed on a slope 20% or greater, or the wall will tend to adversely affect drainage or cause increased erosion.

5. Water tanks supported directly upon grade if the capacity does not exceed 5,000 gallons and the ratio of height to diameter or width does not exceed 2:1.

6. Uncovered residential platforms, decks, porches, walks, and similar structures not more than 18 inches above adjacent grade, and not over any basement or story below.

7. Interior painting, papering, and similar finish work.

8. Temporary motion picture, television, and theater stage sets and scenery.

9. Ground mounted radio, television and other masts or antenna or dish shaped communication reception or transmitting structures less than 3 feet in diameter, which do not extend more than 15 feet above grade and are not served by electrical circuits regulated under the National Electrical Code NEC). Light- weight roof-mounted radio, television, and other masts or antenna or dish shaped communication reception or transmitting structures less than 2 feet in diameter, which do not extend more than 15 feet above the roof, are not served by electrical circuits regulated under the NEC, and which are not subject to design review by the Architectural Board of Review, Historic Landmarks Commission, or Single Family Design Board.

10. Permit applications shall be submitted for other miscellaneous and minor work; however, work which does not exceed $300 in valuation may be exempted by the Chief Building Official from permits and inspections.

Electrical:

Repairs and maintenance. Minor repair work, including the replacement of lamps or the connection of approved portable electrical equipment to approved permanently installed receptacles.

Radio and television transmitting stations. The provisions of this code shall not apply to electrical equipment used for radio and televisions transmissions, but do apply to equipment and wiring for power supply and installations of towers and antennas.

Temporary testing systems. A permit shall not be required for the installation of any temporary system required for the testing or servicing of electrical equipment or apparatus.

Gas:

1. Portable heating appliance.
2. Replacement of any minor part that does not alter approval of equipment or make such equipment unsafe.

Mechanical:

1. Portable heating appliance.
2. Portable ventilation equipment.

3. Portable cooling unit.

4. Steam, hot or chilled water piping within any heating or cooling equipment regulated by this code.

5. Replacement of any part that does not alter its approval or make it unsafe.

6. Portable evaporative cooler.

7. Self-contained refrigeration system containing 10 pounds (5 kg) or less of refrigerant and actuated by motors of 1 horsepower (746 W) or less.

Plumbing:

1. The stopping of leaks in drains, water, soil, waste or vent pipe, provided, however, that if any concealed trap, drain pipe, water, soil, waste or vent pipe becomes defective and it becomes necessary to remove and replace the same with the new material, such work shall be considered as new work and a permit shall be obtained and inspection made as provided in this code.

2. The clearing of stoppages or the repairing of leaks in pipes, valves or fixtures and the removal and reinstallation of water closets, provided such repairs do not involve or require the replacement or rearrangement of valves, pipes or fixtures.

C. Section 105.4 of the California Building Code is amended by adding Section 105.4.1 to read as follows:

105.4.1 Issuance. All work authorized by building permit for other than R-3, U-1 or U-2 occupancies shall be issued to an appropriate contractor licensed in accordance with the provisions of California State Law.

D. Section 113 of the California Building Code is amended by deleting Section 113 in its entirety and readopting Section 113 to read as follows:

113. Board of Appeals. In order to hear and decide appeals of orders, decisions or determinations made by the Fire Code Official or Building Official relative to the application and interpretations of the technical codes, there shall be and is hereby created a Building and Fire Code Board of Appeals consisting of members who are qualified by experience and training to pass upon matters pertaining to building construction and building service equipment and who are not employees of the jurisdiction. The Fire Code Official or the Building Official shall be ex officio members and shall act as secretary to said Board but shall have no vote upon any matter before the Board. The Building and Fire Code Board of Appeals shall be appointed by the City Council and shall hold office at its pleasure. The Board shall abide by the rules and procedures in Appendix B of this code and shall render all decisions and findings in writing to the appellant with a duplicate copy to the Fire Code Official or Building Official. This Board shall serve as the appeals boards defined in Section 1.8.8 and 1.9.1.5.

E. Section 701A.1 of the California Building Code is amended to read as follows:

701A.1 Scope. This chapter applies to building materials, systems and/or assemblies used in the exterior design and construction of new buildings, remodels or additions to existing buildings located within a Wildland-Urban Interface Fire Area as defined in Section 702A and 701A.3.1 Item #3.

F. Section 701A.3 of the California Building Code is amended to read as follows:

701A.3 Application. New buildings, remodeled buildings or additions to existing buildings in any Fire Hazard Severity Zone or Wildland-Urban Interface Area designated by the enforcing agency constructed after the application date shall comply with this chapter.

Exception: Accessory and/or Group U occupancy buildings may be exempted from all or portions of this chapter upon approval of the Fire Marshall and/or Chief Building Official.

G. Section 705A.2 of the California Building Code is deleted in its entirety and readopted to read as follows:

705A.2 Roof Coverings. Roof coverings on new buildings shall be class A noncombustible in accordance with adopted UBC Standards or otherwise as may be approved by the Chief Building Official. Roof coverings shall be class A or noncombustible fire retardant materials on existing buildings and additions or repairs to existing buildings. Treated or untreated wood shakes or shingles shall not be permitted, except on existing structures which are constructed with shake or shingle roofs where less than 20% of the existing roof is being replaced within a two 2) year period, provided such replacement roofing is fire retardant treated wood shakes or shingles.

H. Section 705A.4 of the California Building Code is amended to read as follows:

705A.4 Roof Gutters. Roof gutters shall be provided with the means to prevent the accumulation of leaves and debris in the gutter. All roof gutters and downspouts shall be constructed of non-combustible materials.

I. Section 705A of the California Building Code is amended by adding Section 705A.5 "Drip Edge Flashing" to read as follows:

705A.5 Drip Edge Flashing. When drip edge flashing is used at the free edges of roofing materials, it shall be non-combustible.

J. Section 706A.2 "Requirements" of the California Building Code is amended to read as follows:

706A.2 Requirements. Ventilation openings for enclosed attics, enclosed eave soffit spaces, enclosed rafter spaces formed where ceilings are applied directly to the underside of roof rafters, and underfloor ventilation openings shall be fully covered with metal wire mesh, vents, other materials, or other devices that meet the following requirements:

1. The dimensions of the openings therein shall be a minimum of 1/16th inch (1.6 mm) and shall not exceed 1/8th inch (3.2mm).
2. The materials used shall be noncombustible.

Exception to item #2: Vents located under the roof covering, along the ridge of roofs, with the exposed surface of the vent covered by noncombustible wire mesh, may be of combustible materials.

3. The materials used shall be corrosion resistant.
4. Turbine attic vents shall be equipped to allow one-way direction rotation only and shall not free spin in both directions.
5. Ventilation openings protected with vent openings that resist the intrusion of flame and embers, and which are listed by the State Fire Marshal, are exempt from complying with this sub-section.

K. Section 707A.3 of the California Building Code is amended to read as follows:

707A.3 Exterior Walls. The exterior wall covering or wall assembly shall comply with one of the following requirements;

1. Noncombustible material
2. Ignition-resistant material
3. Heavy-timber exterior wall assembly
4. Log wall construction assembly
5. Wall assemblies that meet the performance criteria in accordance with the test procedures for a 10-minute direct flame contact exposure test set forth in SFM Standard 12-7A-1.

L. Section 708A.2 "Exterior Glazing" of the California Building Code is amended to read as follows:

708A.2 Exterior glazing. The following exterior glazing materials and/or assemblies shall comply with this section:

1. Exterior windows and/or skylights.
2. Exterior glazed doors.
3. Glazed openings within exterior doors.
4. Glazed openings within exterior garage doors.
5. Exterior structural glass veneer.
6. Glazing frames made of vinyl materials shall have welded corners, metal reinforcement in the interlock area, and be certified to the most current edition of ANSI/AAMA/NWWDA 101/I.S.2 structural requirements.

M. Section 903.2 "Where required" of the California Building Code is amended to add Section 903.2.19 to read as follows:

903.2.19 Local Requirements. Approved automatic sprinkler systems shall be installed throughout buildings and structures as specified elsewhere in this Section 903.2 or as specified in this Section 903.2.18, whichever is more protective:

903.2.19 .1 New Buildings, Generally. The construction of a new building containing any of the following occupancies: A, B, E, F, H, I, L, M, R, S or U.

Exceptions: A new building containing a Group U occupancy that is constructed in the City's designated High Fire Hazard Area is not required to provide a sprinkler system as long as the building does not exceed 500 square feet of floor area. A new building containing a U occupancy that is constructed outside the City's designated High Fire Hazard Area is not required to provide a sprinkler system as long as the building does not exceed 5000 square feet of floor area.

903.2.19.2 New Buildings in the High Fire Hazard Area. The construction of any new building within the City's designated High Fire Hazard Area.

Exception: A new building containing a Group U occupancy that is constructed in the City's designated High Fire Hazard Area is not required to provide a sprinkler system as long as the building does not exceed 500 square feet of floor area.

903.2.19.3 Additions to Buildings Other than Single Family Residences. The addition of floor area to an existing building that contains any occupancy other than Group R, Division 3.

903.2.19.4 Remodels of Buildings Other than Single Family Residences. The remodel or alteration of the interior of an existing building that contains any occupancy other than Group R, Division 3, where the floor area of the portion of the building that is modified or altered exceeds 50% of the existing floor area of the building. For purposes of this section, all modifications or alterations to an existing building that occur after the effective date of the ordinance adopting this section shall be counted in the aggregate toward the 50% threshold measured against the floor area of the building as it existed on the effective date of the ordinance adopting this section.

903.2.19.5 Change of Occupancy to a Higher Hazard Classification. Any change of occupancy in an existing building where the occupancy changes to a higher hazard classification.

903.2.19.6 Computation of Square Footage. For the purposes of this Section 903.2.18, the floor area of buildings shall be computed in accordance with the definition of "Floor area, Gross" provided in Section 1002.1 of the California Building Code.

903.2.19.7 Existing use. Any existing building not classified as Group R, Division 3, in existence at the time of the effective date of this code may have their use continued if such use was legal at the time. Additions to existing buildings shall require an automatic fire sprinkler system installed throughout, including areas not previously protected.

N. Section 907 of the California Building Code is amended to add Section 907.2.29 to read as follows:

907.2.29 Mixed Use Occupancies. Where residential occupancies are combined with commercial occupancies, a fire alarm system shall be installed which notifies all occupants in the event of a fire. The system shall include automatic smoke detection throughout the commercial and common areas. In addition, a notification system shall be installed in a manner and location approved by the fire code official that indicates the presence of residential dwelling units in accordance with Municipal Code Section 8.04.030 B.

O. Section 1208.4 of the California Building Code is amended to read as follows:

1208.4 Efficiency Dwelling Units. Unless modified by local ordinance pursuant to Health and Safety Code Section 17958.1, efficiency dwelling units shall comply with the following:

1. The unit shall have a living room of not less than 220 square feet (20.4 m^2) of floor area. An additional 100 square feet (9.3 m^2) of floor area shall be provided for each occupant of such unit in excess of two.
2. The unit shall be provided with a separate closet.
3. The unit shall be provided with a kitchen sink, cooking appliance and refrigeration facilities, each having a clear working space of not less than 30 inches (762 mm) in front. Light and ventilation conforming to this code shall be provided.
4. The unit shall be provided with a separate bathroom containing a water closet, lavatory and bathtub or shower.
5. Notwithstanding the provisions of subsection 1 above, for projects constructed or operated by a nonprofit or governmental agency offering housing at an Affordable Housing Cost to Lower Income Households (as those terms are defined in sections 50052.5 and 50079.5 of the California Health and Safety Code), the City may permit efficiency dwelling units for occupancy by no more than two persons who qualify as either very low or low income households where the units have a minimum useable floor area, (excluding floor area in the kitchen, bathroom and closet), of not less than 150 square feet. In all other respects, such efficiency dwelling units shall conform to the minimum standards specified in this code.

P. Table 1505.1 of the California Building Code is amended to read as follows:

TABLE 1505.1
MINIMUM ROOF COVERING CLASSIFICATION
FOR TYPES OF CONSTRUCTION

IA	IB	IIA	IIB	IIIA	IIIB	IV	VA	VB
B	B	B	B	B	B	B	B	B

Q. Section 1505.1.3 of the California Building Code is deleted in its entirety and readopted to read as follows:

1505.1.3 Roof coverings in all other areas. The roof covering or roofing assembly of any new building or the re-roofing of any existing building, regardless of type or occupancy classification, shall be no less than Class B, except that Group H, Division 1 and Group I occupancies shall be Class A. Treated or untreated wood shakes or shingles shall not be permitted, except on existing structures which are constructed with shake or shingle roofs where less than 20 % of the existing roof is being replaced within a two 2 year period, provided such replacement roofing is fire retardant treated wood shakes or shingles.

Exception: In the High Fire Hazard District, roof coverings shall be in accordance with Chapter 7A as amended.

R. Section 1704.1 of the California Building Code is amended to read as follows:

1704.1 General. Where application is made for construction as described in this section, the owner or the registered design professional in responsible charge acting as the owner's agent shall employ one or more special inspectors to provide inspections during construction on the types of work listed under Section 1704. These inspections are in addition to the inspections specified in Section 110.

The special inspector shall be a qualified person who shall demonstrate competence, to the satisfaction of the building official, for inspection of the particular type of construction or operation requiring special inspection. The registered design professional in responsible charge and engineers of record involved in the design of the project are permitted to act as the approved agency and their personnel are permitted to act as the special inspector for the work designed by them, provided those personnel meet the qualification requirements of this section to the satisfaction of the building official. The special inspector shall provide written documentation to the building official demonstrating his or her competence and relevant experience or training. Experience or training shall be considered relevant when the documented experience or training is related in complexity to the same type of special inspection activities for projects of similar complexity and material qualities. These qualifications are in addition to qualifications specified in other sections of this code.

Exceptions:

1. Special inspections are not required for work of a minor nature or as warranted by conditions in the jurisdiction as approved by the building official.
2. The provisions of Health and Safety Code Division 13, Part 6 and the California Code of Regulations, Title 25, Division 1, Chapter 3, commencing with Section 3000, shall apply to the construction and inspection of factory-built housing as defined in Health and Safety Code Section 19971.

S. Section 1707.3 of the California Building Code is amended to read as follows:

1707.3 Structural wood. Continuous special inspection is required during field gluing operations of elements of the seismic-force-resisting system. Periodic special inspection is required for nailing, bolting, anchoring and other fastening of components within the seismic-force-resisting system, including wood shear walls, wood diaphragms, drag struts, braces, shear panels and hold-downs.

Exceptions:

1. Special Inspection is not required for wood shear walls, shear panels and diaphragms, including nailing, bolting, anchoring and other fastening to other components of the seismic-force-resisting system, where the fastener spacing of the sheathing is more than 4 inches (102 mm) on center (o.c.).
2. Special Inspection is not required if the building is designed in accordance with Tables 2306.2.1(1), 2306.2.1(2) and 2306.3 assuming that the allowable shear values reflected in Tables 2306.2.1(1), 2306.2.1(2) and 2306.3 are reduced by 25%.

T. Section 3109 of the California Building Code is amended by deleting Sections 3109.1 through 3109.4.3 in their entirety, amending Sections 3109.4.4.2 and 3109.4.4.3 to read as follows, and adding Section 3109.4.4.9 to read as follows:

Sections 3109.1 through 3109.4.3 are deleted in their entirety.

Section 3109.4.4.2 Construction permit; safety features required. Commencing January 1, 2007, except as provided in Section 3109.4.4.5, whenever a building permit is issued for construction of a new pool or spa, or any building permit is issued for the remodeling of an existing pool or spa, at a private single family, duplex or townhouse building, in addition to an enclosure that meets the requirements of Section 3109.4.4.3, it shall also be equipped with at least one of the following six drowning prevention safety features:

1. The pool shall incorporate removable mesh pool fencing that meets American Society for Testing and Materials (ASTM) specifications F2286 standards in conjunction with a gate that is self-closing and self-latching and can accommodate a key lockable device.
2. The pool shall be equipped with an approved safety cover that meets all the requirements of ASTM Specification F 1346.
3. The residence shall be equipped with exit alarms on those doors providing direct access to the pool or spa.
4. All doors providing access to the pool shall be equipped with a self-closing, self-latching device with a release mechanism placed no higher than 54 inches above the floor.
5. Swimming pool alarms that, when placed in pools, will sound upon detection of accidental of unauthorized entrance into the water. These pool alarms shall meet and be independently certified to the ASTM Standard F 2208 "Standards

Specifications for Pool Alarms" which includes surface motion, pressure, sonar, laser and infrared type alarms. For purposes of this article, "swimming pool alarms" shall not include swimming protection alarm devices designed for individual use, such as an alarm attached to a child that sounds when the child exceeds a certain distance or becomes submerged in water.

6. Other means of protection, if the degree of protection afforded is equal to or greater than that afforded by any of the devices set forth in items 1-4, and have been independently verified by an approved testing laboratory as meeting standards for those devices established by the ASTM or the American Society of Testing Mechanical Engineers.

Section 3109.4.4.3 Enclosure; required characteristics. An enclosure shall have all of the following characteristics:

1. Any access gates through the enclosure open away from the swimming pool and are self-closing with a self-latching device placed no lower than 60 inches above the ground.
2. A minimum height of 60 inches.
3. A maximum vertical clearance from the ground to the bottom of the enclosure of 2 inches.
4. Gaps or voids, if any, do not allow the passage of a sphere equal to or greater than 4 inches in diameter.
5. An outside free of protrusions, cavities or other physical characteristics that would serve as handholds or footholds that could enable a child below the age of 5 years to climb.
6. Maximum mesh size for chain link fences shall be a 2 ¼ inch square unless the fence is provided with slats fastened at the top or bottom which reduce the openings to no more than 1 ¾ inch.

Section 3109.4.4.9 Fence Permits. Where new fencing is required because of pool installation, the permit for that fencing shall be obtained prior to, or concurrently with, the pool permit. No water shall be placed in any swimming pool prior to the installation of all safeguards required by this Chapter and the approval of all associated electrical and mechanical work.

U. Appendix B of the California Building Code is deleted in its entirety and readopted to read as follows:

B101.1 Application. The application for appeal shall be filed on a form obtained from the building official within 20 days after the notice was served.

B101.2 Membership of the Board. The City Council shall appoint individuals to an eligibility list. Appeals shall be scheduled before five members selected from the eligibility list by the Community Development Director or the Fire Chief as may be appropriate based on the subject matter.

B101.2.1 Quorum. It shall take a quorum of three members to hear an appeal and a majority vote of the Board convened to sustain an appeal.

B101.2.2 Chairperson. The chairperson shall be selected by the convened Board. The chairperson shall maintain order and conduct the meeting in accordance with Section B102 and B102.1.

B102 Rules and Procedures. The Chief Building Official or Fire Chief may use the procedure for "Conduct of Hearing Appeals" in accordance with Chapter 6 of the Uniform Code for the Abatement of Dangerous Buildings for appeals. The Board may elect alternate procedures by a unanimous vote of the convened Board as they may deem appropriate.

B102.1 Procedures. Appeal hearings shall be conducted substantially in accordance with the following format:

1. The Chairperson shall call the meeting to order.

2. The Chairperson shall note the Board members present for the minutes.

3. The Chairperson shall recognize the Chief Building Official or Fire Chief for presentation of the appeal. The Chief Building Official or the Fire Chief shall read his/her recommendation to the Board. This recommendation shall be the standing motion before the Board.

4. The Chairperson shall recognize the Appellant for presentation of rebuttals.

5. All witnesses must be called by either the Appellant or the Chief Building Official or the Fire Chief and may be questioned.

6. After a motion to amend, accept, or deny the standing motion has been made and seconded, the Board may entertain comments from the public.

7. The Board shall vote on the standing or amended motion.

8. The Chairperson shall adjourn the meeting at the end of business.

9. The Secretary shall prepare minutes for the record and shall serve as custodian of case records and said minutes.

B102.2 Meetings. The Board shall meet when needed to hear an appeal or when needed to transact business of the Board. Either the Chief Building Official or the Fire Chief or their designee shall act as Secretary of the Board.

B103 Alternatives. The Board may consider any alternate provided that it finds that the proposed design, material, method, or work offered is, for the purpose intended, at least the equivalent of that prescribed in the technical codes in accessibility, suitability, strength, effectiveness, fire resistance, durability, safety, and sanitation.

B104 Board Decisions. The decision of the Building and Fire Code Board of Appeals shall be final on all matters of appeals and shall become an order to the Appellant, Building Official or Fire Chief as may be appropriate.

V. Appendix J of the California Building Code is deleted in its entirety and readopted to read as follows:

J101. GRADING GENERAL

J101.1 Scope. The provisions of this chapter apply to grading, excavation and earthwork construction, including fills and embankments, and the control of grading site runoff, including erosion sediments and construction-related pollutants. The purpose of this appendix is to safeguard life, limb, property and the public welfare by regulating grading on private property.

J101.2 General Hazards. Whenever the Building Official determines that any existing excavation or embankment or fill on private property has become a hazard to life and limb, or endangers property, or adversely affects the safety, use or stability of a public way or drainage channel, the owner of the property upon which the excavation or fill is located, or other person or agent in control of said property, upon receipt of notice in writing from the Building Official, shall within the period specified therein repair or eliminate such excavation or embankment to eliminate the hazard and to be in conformance with the requirements of this code.

J101.3 Safety Precautions. If at any stage of the work the Building Official determines by inspection that further grading as authorized is likely to endanger any public or private property or result in the deposition of debris on any public way or interfere with any existing drainage course, the Building Official may order the work stopped by notice in writing served on any persons engaged in doing or causing such work to be done, and any such person shall forthwith stop such work. The Building Official may authorize the work to proceed if the Building Official finds adequate safety precautions can be taken or corrective measures incorporated in the work to avoid likelihood of such danger, deposition or interference.

If the grading work as done has created or resulted in a hazardous condition, the Building Official shall give written notice requiring correction thereof as specified in Section 109.6 of Appendix Chapter 1.

J101.4 Protection of Utilities. The owner of any property on which grading has been performed, and which requires a grading permit under Section J103, shall be responsible for the prevention of damage to any public utilities or services.

J101.5 Protection of Adjacent Property. The owner of any property on which grading, has been performed and which requires a grading permit under Section J103 is responsible for the prevention of damage to adjacent property and no person shall excavate on land sufficiently close to the property line to endanger any adjoining public street, sidewalk, alley, or other public or private property without supporting and protecting such property from settling, cracking or other damage which might result. Special precautions approved by the Building Official shall be made to prevent imported or exported materials from being deposited on the adjacent public way and/or drainage courses.

J101.6 Storm Water Control Measures. The owner of any property on which grading, has been performed and which requires a grading permit under Section J103 shall put into effect and maintain all precautionary measures necessary to protect adjacent water courses and public or private property from damage by erosion, flooding, and deposition of mud, debris, and construction-related pollutants originating from the site during grading and related construction activities as required in the City of Santa Barbara, Building & Safety Division's Erosion/Sedimentation Control Policy and/or any special conditions imposed on a project as a result of the issuance of a discretionary permit by the City.

J101.7 Maintenance of Protective Devices. The owner of any property on which grading has been performed pursuant to a permit issued under the provisions of this code, or any other person or agent in control of such property, shall maintain in good condition and repair all drainage structures and other protective devices when they are shown on the grading plans filed with the application for grading permit and approved as a condition precedent to the issuance of such permit.

J101.8 Conditions of Approval. In granting any permit under this code, the Building Official may include such conditions as may be reasonably necessary to prevent creation of a nuisance or hazard to public or private property. Such conditions may include, but shall not be limited to:

1. Improvement of any existing grading to comply with the standards of this code.

2. Requirements for fencing of excavations or fills which may otherwise be hazardous.

3. Storm water control measures beyond those required by Section J101.6 of this Appendix J.

SECTION J102 DEFINITIONS

J102.1 Definitions. For the purposes of this appendix chapter, the terms, phrases and words listed in this section and their derivatives shall have the indicated meanings.

APPROVAL. shall mean that the proposed work or completed work conforms to this chapter to the satisfaction of the Building Official.

AS–GRADED. is the extent of surface conditions on completion of the approved grading project.

BEDROCK. is in–place solid rock. is the relatively solid, undisturbed rock in place either at the ground surface or beneath superficial deposits of alluvium, colluvium and/or soil.

BENCH. A relatively level step excavated into earth material on which fill is to be placed.

BEST MANAGEMENT PRACTICE (BMP). is a stormwater pollution mitigation measure which is required to be employed in order to comply with the requirements of the NPDES permit issued to the City of Santa Barbara by the California Regional Water Quality Control Board.

BORROW is earth material acquired from an off–site location for use in grading on a site.

CIVIL ENGINEER is a professional engineer registered in the state to practice in the field of civil works.

CIVIL ENGINEERING is the application of the knowledge of the forces of nature, principles of mechanics and the properties of materials to the evaluation, design and construction of civil works.

COMPACTION. The densification of a fill by mechanical means.

CUT. See Excavation.

DESILTING BASINS are physical structures, constructed to allow the removal of sediments from surface water runoff.

DESIGN ENGINEER. Shall mean the civil engineer responsible for the preparation of the grading plans for the site grading work.

DOWN DRAIN. a device for collecting water from a swale or ditch located on or above a slope, and safely delivering it to an approved drainage facility

EARTH MATERIAL. is any rock, natural soil or fill or any combination thereof.

ENGINEERING GEOLOGIST. is a geologist experienced and knowledgeable in engineering geology. Shall mean a person holding a valid certificate of registration as a geologist in the specialty of engineering geology issued by the State of California under the applicable provisions of the Geologist and Geophysicist Act of the Business and Professions Code.

ENGINEERING GEOLOGY. is the application of geologic knowledge and principles in the investigation and evaluation of naturally occurring rock and soil for use in the design of civil works.

EROSION. The wearing away of the ground surface as a result of the movement of wind, water or ice.

EROSION/SEDIMENTATION CONTROL PLAN (ESC). is a site drawing with details, notes, and related documents that identify the measures taken by the permittee to (1) control construction-related erosion and prevent construction-related sediment and pollutants from being carried offsite by stormwater, and (2) prevent construction-related non-stormwater discharges from entering the storm drain system that complies with the latest version of the Building & Safety Division's ESC Policy.

EXCAVATION. The removal of earth material by artificial means, also referred to as a cut.

FIELD ENGINEER. shall mean the civil engineer responsible for performing the functions as set forth in Section J105.4.

FILL. deposition of earth materials by artificial means.

GEOTECHNICAL ENGINEER. See "soils engineer."

GEOTECHNICAL HAZARD. is an adverse condition due to landslide, settlement, and/or slippage. These hazards include loose debris, slopewash, and the potential for mud flows from natural or graded slopes.

GRADE. The vertical location of the ground surface.

GRADE, EXISTING. The grade prior to grading.

GRADE, FINISHED. The final grade of the site that conforms to the approved plan.

GRADE, ROUGH. A stage at which the grade approximately conforms to the approved plan.

GRADING. An excavation or fill or combination thereof.

KEY. a compacted fill placed in a trench excavated in earth material beneath the toe of a slope.

LANDSCAPE ARCHITECT. shall mean a person who holds a certificate to practice landscape architecture in the State of California under the applicable landscape architecture provisions of Division 3, Chapter 3.5 of the Business and Professions Code.

LINE. shall refer to horizontal location of the ground surface.

NATURAL GRADE. is the vertical location of the ground surface prior to any excavation or fill.

PRIVATE SEWAGE DISPOSAL SYSTEM. is a septic tank with effluent discharging into a subsurface disposal field, into one or more seepage pits or into a combination of subsurface disposal field and seepage pit or of such other facilities as may be permitted.

PROJECT CONSULTANTS. shall mean professional consultants required by this code which may consist of the design engineer, field engineer, soils engineer, engineering geologist, and architect as applicable to this chapter.

PROFESSIONAL INSPECTION. is the inspection required by this code to be performed by the civil engineer, soils engineer or engineering geologist. Such inspections include those performed by persons supervised by such engineers or geologists and shall be sufficient to form an opinion relating to the conduct of the work.

SITE. is any lot or parcel of land or contiguous combination thereof, under the same ownership, where grading is performed or permitted.

SLOPE. is an inclined ground surface the inclination of which is expressed as a ratio of horizontal distance to vertical distance.

SOIL. is naturally occurring superficial deposits overlying bedrock.

SOILS ENGINEER (GEOTECHNICAL ENGINEER). is an engineer experienced and knowledgeable in the practice of soils (geotechnical) engineering.

SOILS ENGINEERING (GEOTECHNICAL ENGINEERING). is the application of the principals of soil mechanics in the investigation, evaluation and design of civil works involving the use of earth materials and the inspection or testing of construction there of.

STORM DRAIN SYSTEM. is a conveyance or system of conveyances, including roads with drainage systems, municipal streets, catch basins, curbs, gutters, pipes, ditches and man-made channels, designed or used for collecting, dissipating, or conveying stormwater.

SURFACE DRAINAGE. shall refer to flows over the ground surface.

SOIL TESTING AGENCY. is an agency regularly engaged in the testing of soils and rock under the direction of a civil engineer experienced in soil testing.

TERRACE. A relatively level step constructed in the face of a graded slope for drainage and maintenance purposes.

SECTION J103 PERMITS REQUIRED

J103.1 Permits required. Except as exempted in Section J103.2, no grading shall be performed without first having obtained a permit therefore from the Building Official. A grading permit does not include the construction of retaining walls or other structures. A separate permit shall be obtained for each site and may cover both excavations and fills. Any Engineered Grading as described in Section J104 shall be performed by a contractor

licensed by the State of California to perform the work described herein. Regular Grading less than 5,000 cubic yards may require a licensed contractor if the Building Official determines that special conditions or hazards exist.

J103.2 Exemptions. A grading permit shall not be required for the following:

1. When approved by the Building Official, grading in an isolated, self-contained area, provided there is no danger to the public, and that such grading will not adversely affect adjoining properties.

2. Excavation for the construction of a structure permitted under this code.

3. Cemetery graves.

4. Excavations for wells, or trenches for utilities.

5. Exploratory excavations performed under the direction of a Soils Engineer or Engineering Geologist. This shall not exempt grading of access roads or pads created for exploratory excavations. Exploratory excavations must be restored to existing conditions, unless approved by the Building Official.

6. An excavation that is less than 50 cubic yards (38.3 m3) and complies with one of the following conditions:

a) is less than 2 feet (610 mm) in depth, or

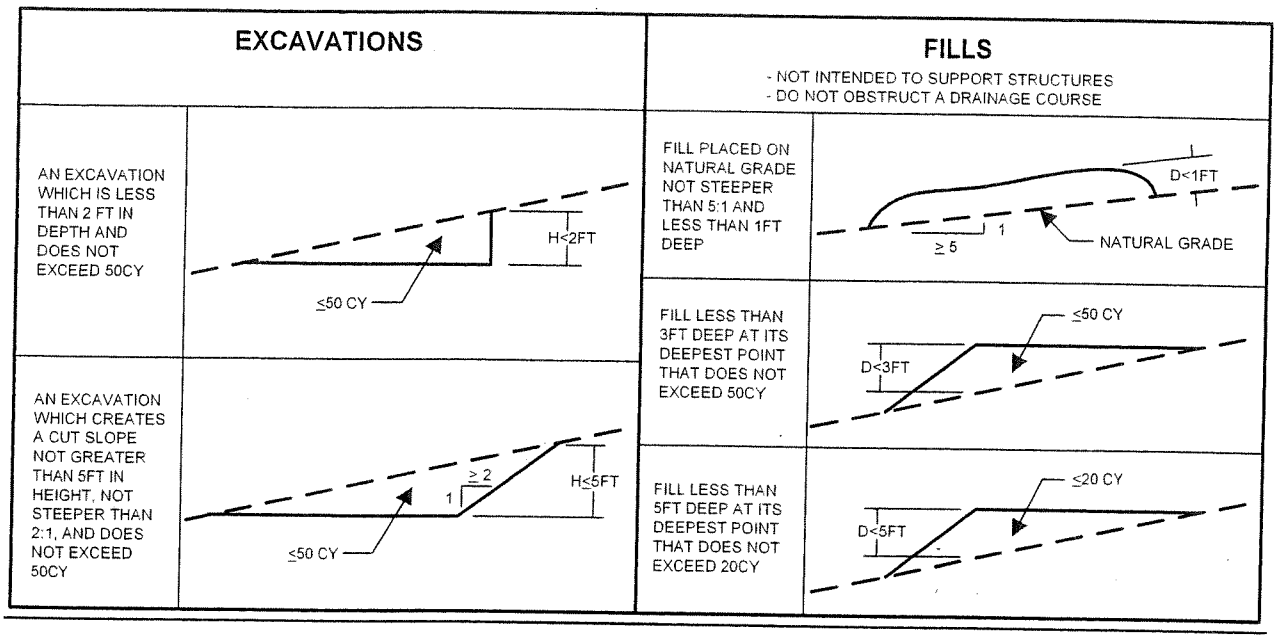
b) does not create a cut slope greater than 5 feet (1524 mm) measured vertically upward from the cut surface to the surface of the natural grade and is steeper than 2 units horizontal to 1 unit vertical (50% slope).

7. A fill not intended to support a structure which does not obstruct a drainage course and complies with one of the following conditions:

a) is less than 1 foot (305 mm) in depth and is placed on natural terrain with a slope flatter than 5 units horizontal to 1 unit vertical in (20% slope),

b) is less than 3 feet (914 mm) in depth at its deepest point measured vertically upward from natural grade to the surface of the fill, and does not exceed 50 cubic yards and creates a fill slope no steeper than 2 units horizontal to 1 unit vertical (50% slope), or

c) is less than 5 feet (1524 mm) in depth at its deepest point measured vertically upward from natural grade to the surface of the fill, and does not exceed 20 cubic yards and creates a fill slope no steeper than 2 units horizontal to 1 unit vertical (50% slope).



8. Exemption from the permit requirements of this appendix shall not be deemed to grant authorization for any work to be done in any manner in violation of the provisions of this code or any other laws or ordinances of this jurisdiction.

J103.3 Unpermitted Grading. A person shall not own, use, occupy or maintain any site containing unpermitted grading. For the purposes of this Code, unpermitted grading shall be defined as any grading that was performed, at any point in time, without the required permit(s) having first been obtained from the Building Official, pursuant to Section 103.1.

J103.4 Availability of Permit at Site. No person shall perform any grading for which a permit is required under this chapter unless a copy of the grading permit and approved grading plans is in the possession of a responsible person and available at the site.

J103.5 Grading Plan Review, Inspection and Permit Fees. Fees shall be assessed in accordance with the provisions set forth in the City of Santa Barbara's most currently adopted fee schedule.

J103.6 Grading Security. The Building Official may require a security in such form and amounts as may be deemed necessary to ensure that the work, if not completed in accordance with the approved plans and specifications, will be corrected to eliminate hazardous conditions. If required, a permit shall not be issued for grading unless the owner posts with the Building Official a security in one of the following forms:

1. A bond furnished by a corporate surety authorized to do business in this state.

2. A cash bond.

3. Savings and loan certificates or shares deposited and assigned to the City of Santa Barbara.

4. An instrument of credit from a financial institution subject to regulation by the State or Federal government and pledging that the funds necessary to carry out the grading are on deposit and guaranteed for payment, or a letter of credit issued by such a financial institution.

5. Where unusual conditions or special hazards exist, the Building Official may require security for grading involving less than 1,000 cubic yards (764.6 m3). Security required by this Section may include incidental off-site grading on property contiguous with the site to be developed, provided written consent of the owner of such contiguous property is filed with the Building Official.

6. The Building Official may waive the requirements for a security for:

a) Grading being done by or for a governmental agency.

b) Grading necessary to remove a geotechnical hazard, where such work is covered by an agreement and security posted pursuant to the provisions of the City's "Subdivision Ordinance".

c) Minor grading on a site, not exceeding a slope of three horizontal to one vertical, provided such grading as determined by the Building Official will not affect drainage from or to adjacent properties.

d) Filling of holes or depressions, provided such grading will not affect the drainage from or to adjacent properties, or affect a rare, threatened or endangered species or its habitat, or other sensitive habitat.

J103.6.1 Amount of Security. The amount of security shall be based on the number of cubic yards of material in either excavation or fill, whichever is greater, plus the cost of all drainage or other protective devices or work necessary to eliminate geotechnical hazards. That portion of the security valuation based on the volume of material in either excavation or fill shall be computed as follows:

1. 100,000 cubic yards or less - 50 percent of the estimated cost of grading work.

2. Over 100,000 cubic yards - 50 percent of the cost of the first 100,000 cubic yards plus 25 percent of the estimated cost of that portion in excess of 100,000 cubic yards.

3. When the rough grading has been completed in conformance with the requirements of this code, the Building Official may at his or her discretion consent to a proportionate reduction of the security to an amount estimated to be adequate to ensure completion of the grading work, site development or planting remaining to be performed. The costs referred to in this section shall be as estimated by the Building Official.

J103.6.2 Conditions. All security shall include the conditions that the principal shall:

1. Comply with all of the provisions of this code, applicable laws, and ordinances;

2. Comply with all of the terms and conditions of the grading permit; and

3. Complete all of the work authorized by the permit.

J103.6.3 Term of Security. The term of each security shall begin upon the filing thereof with the Building Official and the security shall remain in effect until the work authorized by the grading permit is completed and approved by the Building Official.

J103.6.4 Default Procedures. In the event the owner or the owner's agent shall fail to complete the work or fail to comply with all terms and conditions of the grading permit, it shall be deemed a default has occurred. The Building Official shall give notice thereof to the principal and security or financial institution on the grading permit security, or to the owner in the case of a cash deposit or assignment, and may order the work required to complete the grading in conformance with the requirements of this code be performed. The surety or financial institution executing the security shall continue to be firmly bound under an obligation up to the full amount of the security, for the payment of all necessary costs and expenses that may be incurred by the Building Official in causing any and all such required work to be done. In the case of a cash deposit or assignment, the unused portion of such deposit or funds assigned shall be returned or reassigned to the person making said deposit or assignment.

J103.6.5 Right of Entry. The Building Official or the authorized representative of the surety company or financial institution shall have access to the premises described in the permit for the purpose of inspecting the work.

In the event of default in the performance of any term or condition of the permit, the surety or financial institution or the Building Official, or any person employed or engaged in the behalf of any of these parties, shall have the right to go upon the premises to perform the required work.

The owner or any other person who interferes with or obstructs the ingress to or egress from any such premises, of any authorized representative of the surety or financial institution or of the City of Santa Barbara engaged in the correction or completion of the work for which a grading permit has been issued, after a default has occurred in the performance of the terms or conditions thereof, is guilty of a misdemeanor.

SECTION J104 PERMIT APPLICATION AND SUBMITTALS

J104.1 Submittal requirements. In addition to the provisions of Sections J106 and J107, the applicant shall state the estimated quantities of excavation and fill.

J104.2 Site plan requirements. In addition to the provisions of Section J106, a grading plan shall show the existing grade and finished grade in contour intervals of sufficient clarity to indicate the nature and extent of the work and show in detail that it complies with the requirements of this code. The plans shall show the existing grade on adjoining properties in sufficient detail to identify how grade changes will conform to the requirements of this code.

J104.2.1 Grading Designation. Grading in excess of 5,000 cubic yards or for the support of a structure shall be performed in accordance with the approved grading plan prepared by a civil engineer, and shall be designated as "engineered grading." Grading involving less than 5,000 cubic yards (3825 m3) shall be designated "regular grading" unless the permittee chooses to have the grading performed as engineered grading, or the Building Official determines that special conditions or unusual hazards exist, in which case grading shall conform to the requirements for engineered grading.

J104.2.2 Regular Grading Requirements. In addition to the provisions of Section J106 and Section J104.2, an application for a regular grading permit shall be accompanied by three sets of plans in sufficient clarity to indicate the nature and extent of the work. The plans and specifications shall be prepared and signed by an individual licensed by the state to prepare such plans or specifications.

Plans shall be drawn to scale upon substantial paper or mylar and shall be of sufficient clarity to indicate the nature and extent of the work proposed and show in detail that they will conform to the provisions of this code and all relevant laws, ordinances, rules and regulations. Each sheet of each set of plans shall give location of the work, the name and address of the owner, and the person by whom they were prepared.

The plans shall include, but shall not be limited to, the following information:

1. General vicinity of the proposed site.

2. Limiting dimensions and depth of cut and fill.

3. Location of any buildings or structures where work is to be performed, and the location of any buildings or structures within 15 feet of the proposed grading.

4. Contours, flow areas, elevations, or slopes which define existing and proposed drainage patterns.

5. Erosion/Sedimentation, Storm water, and dust control provisions are required to be shown on the grading plan in accordance with the requirements of Sections J110, J111 & 112 of this appendix.

J104.2.3 Engineered Grading Requirements. In addition to the provisions of Sections J104.2 and J106, an application for an engineered grading permit shall be accompanied by specifications and supporting data consisting of a soils engineering report and engineering geology report. The plans and specifications shall be prepared and signed by an individual licensed by the state to prepare such plans or specifications when required by the Building Official.

Specifications shall contain information covering construction and material requirements.

Plans shall be drawn to scale upon substantial paper or mylar and shall be of sufficient clarity to indicate the nature and extent of the work proposed and show in detail that they will conform to the provisions of this code and all relevant laws, ordinances, rules and regulations. Each sheet of each set of plans shall give location of the work, the name and address of the owner, and the person by whom they were prepared.

The plans shall include, but shall not be limited to, the following information:

1. A vicinity map showing the proposed site.

2. Property limits and accurate contours of existing ground and details of terrain and area drainage.

3. Limiting dimensions, elevations or finish contours to be achieved by the grading, and proposed drainage channels and related construction.

4. Detailed plans of all surface and subsurface drainage devices, walls, cribbing, dams and other protective devices to be constructed with, or as a part of, the proposed work, together with a map showing the drainage area and the estimated runoff of the area served by any drains.

5. Location of any buildings or structures on the property where the work is to be performed and the location of any buildings or structures on land of adjacent owners that are within15 feet of the property or that may be affected by the proposed grading operations.

6. Recommendations included in the soils engineering report and the engineering geology report shall be incorporated in the grading plans or specifications. When approved by the Building Official, specific recommendations contained in the soils engineering report and the engineering geology report, which are applicable to grading, may be included by reference.

7. The dates of the soils engineering and engineering geology reports together with the names, addresses and phone numbers of the firms or individuals who prepared the reports.

8. A statement of the quantities of material to be excavated and/or filled and the amount of such material to be imported to, or exported from the site.

9. A statement of the estimated starting and completion dates for work covered by the permit.

10. A statement signed by the owner acknowledging that a field engineer, soils engineer and engineering geologist, when appropriate, will be employed to perform the services required by this code, whenever approval of the plans and issuance of the permit are to be based on the condition that such professional persons be so employed.

11. Erosion/Sedimentation, Storm water, and dust control provisions are required to be shown on the grading plan in accordance with the requirement of sections J110, J111 & J112 of this appendix.

12. A drainage plan for that portion of a lot or parcel to be utilized as a building site (building pad), including elevations of floors with respect to finish site grade and locations of proposed stoops, slabs and fences that may affect drainage.

13. Location and type of any proposed private sewage disposal system.

14. Location of existing utilities and drainage facilities and recorded easements. (public and private).

15. Location of all flood zones as designated and defined in Title 44, Code of Federal Regulations.

J104.3 Soils Engineering Report. The soils engineering report required by Section J104.2.2 shall include data regarding the nature, distribution and strength of existing soils, conclusions and recommendations for grading procedures and design criteria for corrective measures, including buttress fills, when necessary, and opinion on adequacy for the intended use of sites to be developed by the proposed grading as affected by soils engineering factors, including the stability of slopes. All reports shall conform with the requirements of this Code and shall be subject to review by the Building Official. Supplemental reports and data may be required as the Building Official may deem necessary. Recommendations included in the reports and approved by the Building Official shall be incorporated in the grading plan or specifications.

J104.4 Engineering Geology Report. The engineering geology report required by Section J104.2.2 shall include an adequate description of the geology of the site, conclusions and recommendations regarding the effect of geologic conditions on the proposed development, and opinion on the adequacy for the intended use of sites to be developed by the proposed grading, as affected by geologic factors. The engineering geology report shall include a geologic map and cross sections utilizing the most recent grading plan as a base. All reports shall conform with the requirements of this Code and shall be subject to review by the Building Official. Supplemental reports and data may be required as the Building Official may deem necessary. Recommendations included in

the reports and approved by the Building Official shall be incorporated in the grading plan or specifications.

Exception: A soils engineering or engineering geology report is not required where the Building Official determines that the nature of the work applied for is such that a report is not necessary.

J104.5 Liquefaction study. A geotechnical investigation may be required when the proposed work is a "Project" as defined in California Public Resources Code section 2693, and is located in an area designated as a "Seismic Hazard Zone" as defined in Title 14, Section 3722 of California Code of Regulations on Seismic Hazard Zone Maps issued by the State Geologist under Public Resources Code section 2696.

Exception: A liquefaction study is not required where the Building Official determines from established local data that the liquefaction potential is low.

SECTION J105 INSPECTION

J105.1 General. Grading inspections shall be governed by Section J109 of this Appendix J and as indicated herein. Grading operations for which a permit is required shall be subject to inspection by the Building Official. Professional inspection of grading operations shall be provided by the Civil Engineer, Soils Engineer and the Engineering Geologist retained to provide such services in accordance with this Section for engineered grading and as required by the Building Official for regular grading.

J105.2 Special and Supplemental inspections. The special inspection requirements of Section 1704.7 shall apply to work performed under a grading permit where required by the Building Official. In addition to the called inspections specified in Section J109, the Building Official may make such other inspections as may be deemed necessary to determine that the work is being performed in conformance with the requirements of this code. Investigations and reports by an approved soil testing agency, Soils Engineer and/or Engineering Geologist, and Field Engineer may be required. Inspection reports shall be provided when requested by the Building Official.

Inspection of drainage devices by the Field Engineer in accordance with this section may be required when the Building Official determines the drainage devices are necessary for the protection of the structures in accordance with this code.

J105.3 Field Engineer Inspections. When required, the field engineer shall provide professional inspection within such engineer's area of technical specialty, oversee and coordinate all field surveys, set grade stakes, and provide site inspections during grading operations to ensure the site is graded in accordance with the approved grading plan and the appropriate requirements of this code. During site grading, and at the completion of both rough grading and final grading, the field engineer shall submit statements and reports required by Sections J105.11 and J105.12. If revised grading plans are required during the course of the work, they shall be prepared by a Civil Engineer and approved by the Building Official.

J105.4 Soils Engineer Inspections. When required, the Soils Engineer shall provide professional inspection within such engineer's area of technical specialty, which shall include observation during grading and testing for required compaction. The Soils Engineer shall provide sufficient observation during the preparation of the natural ground and placement and compaction of the fill to verify that such work is being performed in accordance with the conditions of the approved plan and the appropriate requirements of this chapter. Revised recommendations relating to conditions differing from the approved soils engineering and engineering geology reports shall be submitted to the permittee, the Building Official and the Field Engineer.

J105.5 Engineering Geologist Inspection. When required, the Engineering Geologist shall provide professional inspection within such engineer's area of technical specialty, which shall include professional inspection of the bedrock excavation to determine if conditions encountered are in conformance with the approved report. Revised recommendations relating to conditions differing from the approved engineering geology report shall be submitted to the soils engineer.

J105.6 Permittee. The permittee shall be responsible for the work to be performed in accordance with the approved plans and specifications and in conformance with the provisions of this code. The permittee shall engage project consultants, if required, to provide professional inspections on a timely basis. The permittee shall act as a coordinator between the project consultants, the contractor and the Building Official. In the event of changed conditions, the permittee shall be responsible for informing the Building Official of such change and shall provide revised plans for approval.

J105.7 Building Official Inspections. The Building Official may inspect the project site at the following various stages of work requiring approval to determine that adequate control is being exercised by the professional consultants:

1. **Pregrade**. Before any construction or grading activities occur at the site; the permittee shall schedule a pregrade inspection with the Building Official. The permittee is responsible for coordinating that all project consultants are present at the pregrade inspection.

2. **Initial**. When the site has been cleared of vegetation and unapproved fill and it has been scarified, benched or otherwise prepared for fill. No fill shall have been placed prior to this inspection. All measures as shown on the Erosion/Sedimentation Control Plan shall be installed and/or materials stockpiled for use as needed.

3. **Rough**. When approximate final elevations have been established; drainage terraces, swales and other drainage devices necessary for the protection of the building sites from flooding are installed; berms installed at the top of the slopes; and the statements required by Section J105.12 have been received.

4. **Final.** When grading has been completed; all drainage devices necessary to drain the building pad and project site are installed; slope planting established, irrigation systems installed; and the as-graded plans and required statements and reports have been submitted.

J105.8 Notification of Noncompliance. If, in the course of fulfilling their respective duties under this chapter, the Field Engineer, the Soils Engineer or the Engineering Geologist finds that the work is not being done in conformance with this chapter or the approved grading plans, the discrepancies and corrective measures which should be taken shall be reported immediately in writing to the permittee and to the Building Official.

J105.9 Transfer of Responsibility. If the Field Engineer, the Soils Engineer, or the Engineering Geologist of record is changed during grading, the work shall be stopped until the replacement has agreed in writing to accept their responsibility within the area of technical competence for approval upon completion of the work. It shall be the duty of the permittee to notify the Building Official in writing of such change prior to the recommencement of such grading.

J105.10 Non-inspected grading. No person shall own, use, occupy or maintain any non-inspected grading. For the purposes of this code, non-inspected grading shall be defined as any grading for which a grading permit was first obtained, pursuant to Section J103, supra, but which has progressed beyond any point requiring inspection and approval by the Building Official without such inspection and approval having been obtained.

J105.11 Routine Field Inspections and Reports. Unless waived by the Building Official, routine inspection reports shall be provided by the Field Engineer for all engineered grading projects. The Field Engineer shall file these reports, with the Building Official as follows :

1. bi-weekly during all times when grading of 400 cubic yards or more per week is active on the site;

2. monthly, at all other times; and

3. at any time when requested in writing by the Building Official.

Such reports shall certify to the Building Official that the Field Engineer has inspected the grading site and related activities and has found them in compliance with the approved grading plans, the building code, grading permit conditions, and other applicable ordinances and requirements.

J105.12 Completion of work. Upon completion of the rough grading work and at the final completion of the work, the following reports and drawings and supplements thereto are required for engineered grading or when professional inspection is required by the Building Official:

1. An as–built grading plan prepared by the Field Engineer retained to provide such services in accordance with Section J105.3 showing all plan revisions as approved by the Building Official. This shall include original ground surface elevations, as–graded ground surface elevations, lot drainage patterns, and the locations and elevations of surface drainage facilities and the outlets of subsurface drains. As–constructed locations, elevations and details of subsurface drains shall be shown as reported by the soils engineer.

2. The Field Engineer shall state in a report to the Building Official, that to the best of their knowledge, the work within their area of responsibility was done in accordance with the final approved grading plan.

3. A report prepared by the Soils Engineer retained to provide such services in accordance with Section J105.4, including locations and elevations of field density tests, summaries of field and laboratory tests, other substantiating data, and comments on any changes made during grading and their effect on the recommendations made in the approved soils engineering investigation report. Soils Engineer shall submit a statement that, to the best of their knowledge, the work within their area of responsibilities is in accordance with the approved soils engineering report and applicable provisions of this chapter. The report shall contain a finding regarding the safety of the completed grading and any proposed structures against hazard from landslide, settlement, or slippage.

4. A report prepared by the Engineering Geologist retained to provide such services in accordance with Section J105.5, including a final description of the geology of the site and any new information disclosed during the grading and the effect of same on recommendations incorporated in the approved grading plan. The Engineering Geologist shall submit a statement that, to the best of their knowledge, the work within their area of responsibility is in accordance with the approved engineering geologist report and applicable provisions of this chapter.

5. The grading contractor shall submit a statement of conformance to said as–built plan and the specifications.

J105.13 Notification of completion. The permittee shall notify the Building Official when the grading operation is ready for final inspection. Final approval shall not be given until all work, including installation of all drainage facilities and their protective devices, and all erosion–control measures have been completed in accordance with the final approved grading plan, and the required reports have been submitted and approved.

SECTION J106 EXCAVATIONS

J106.1 General. Unless otherwise recommended in the approved soils engineering or engineering geology report, cuts shall conform to the provisions of this section.

In the absence of an approved soils engineering or engineering geology report, these provisions may be waived, as approved by the Building Official, for minor cuts not intended to support structures nor subject to a surcharge.

J106.2 Maximum slope. The slope of cut surfaces shall be no steeper than is safe for the intended use and shall be no steeper than 2 units horizontal in 1 unit vertical (50% slope) unless the permittee furnishes a soils engineering or an engineering geology report, or both, stating that the site has been investigated and giving an opinion that a cut at a steeper slope will be stable and not create a hazard to public or private property in conformance with the requirements of Section J111. The Building Official may require the excavation to be made with a cut face flatter in slope than two horizontal to one vertical if the Building Official finds it necessary for stability and safety.

J106.3 Slope Surface Protection. All slopes must be stabilized against surface erosion. Stabilization may be accomplished through the application of erosion control blankets, soil stabilizers or other means as approved by the Building Official.

J106.4 Drainage. Drainage, including drainage terraces and overflow protection, shall be provided as required by Section J109.

SECTION J107 FILLS

J107.1 General. Unless otherwise recommended in the approved soils engineering report, fills shall conform to the provisions of this section. In the absence of an approved soils engineering report and if approved by the Building Official, these provisions may be waived for minor fills not intended to support structures.

J107.2 Preparation of Ground. Fill slopes shall not be constructed on natural slopes steeper than 2 units horizontal in 1 unit vertical (50% slope). The ground surface shall be prepared to receive fill by removing vegetation, non-complying fill, topsoil and other unsuitable materials scarifying to provide a bond with the new fill and, where slopes are steeper than 5 units horizontal in 1 unit vertical (20% slope) and the height is greater than 5 feet, benching into sound bedrock or other competent material shall be provided as a minimum in accordance with Figure J107.2 or as determined by the soils engineer. The bench under the toe of a fill on a slope steeper than 5 units horizontal in 1 unit vertical (20% slope) shall be at least 10 feet wide. The area beyond the toe of fill shall be sloped for sheet overflow or a paved drain shall be provided. When fill is to be placed over a cut, the bench under the toe of fill shall be at least 10 feet wide but the cut shall be made before placing the fill and acceptance by the Soils Engineer or Engineering Geologist or both as a suitable foundation for fill.

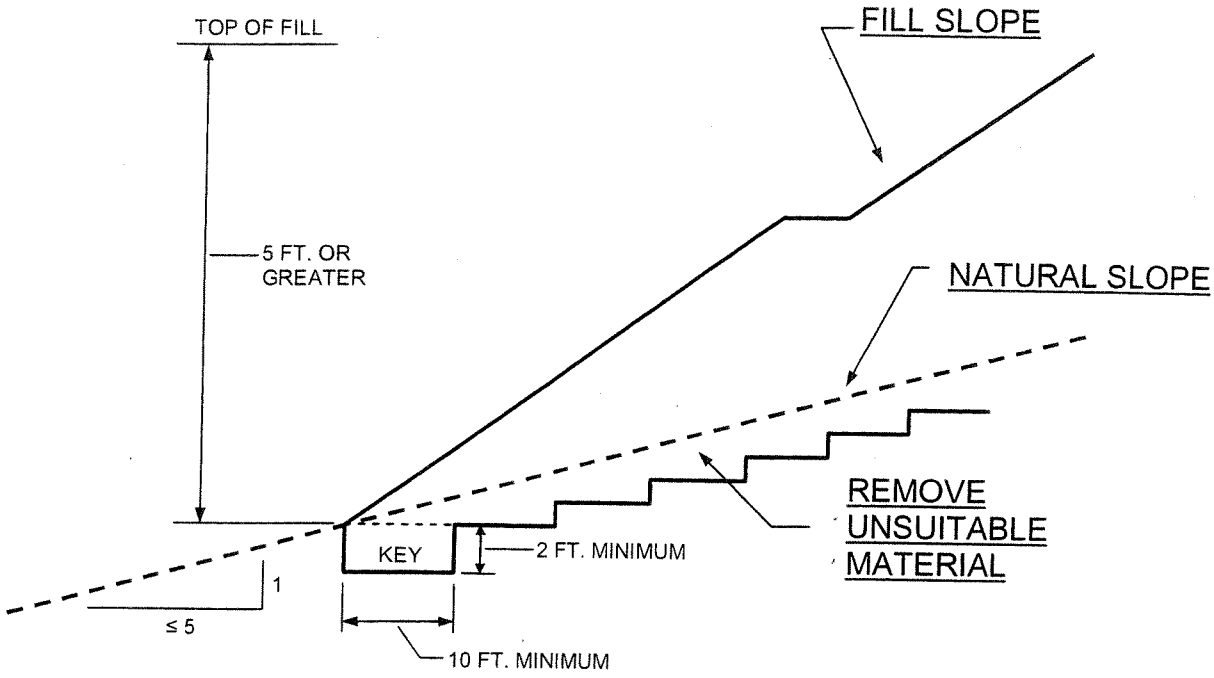


FIGURE J107.2 BENCHING DETAILS

J107.3 Subdrains. Except where recommended by the Soils Engineer or Engineering Geologist as not being necessary, subdrains shall be provided under all fills placed in natural drainage courses and in other locations where seepage is evident. Such sub-drainage systems shall be of a material and design approved by the Soils Engineer and acceptable to the Building Official. The permittee shall provide continuous inspection during the process of subdrain installation to conform with approved plans and Engineering Geologist's and Soils Engineer's recommendation. Such inspection shall be done by the soil testing agency. The location of the subdrains shall be shown on a plan by the Soils Engineer. Excavations for the subdrains shall be inspected by the Engineering Geologist when such subdrains are included in the recommendations of the Engineering Geologist

J107.4 Fill Material. Detrimental amounts of organic material shall not be permitted in fills. Unless approved by the Building Official, no rock or similar irreducible material with a maximum dimension greater than 12 inches shall be buried or placed in fills.

EXCEPTION: The Building Official may permit placement of larger rock when the soils engineer properly devises a method of placement, and continuously inspects its placement and approves the fill stability. The following conditions shall also apply:

1. Prior to issuance of the grading permit, potential rock disposal areas shall be delineated on the grading plan.

2. Rock sizes greater than 12 inches in maximum dimension shall be 10 feet or more below grade, measured vertically.

3. Rocks shall be placed so as to assure filling of all voids with well–graded soil.

4. The reports submitted by the soils engineer shall acknowledge the placement of the oversized material and whether the work was performed in accordance with the engineer's recommendations and the approved plans.

5. The location of oversized rock dispersal areas shall be shown on the as-built plan.

J107.5 Compaction. All fills shall be compacted to a minimum of 90 percent of maximum density. Fills shall be compacted throughout their full extent to a minimum relative compaction of 90 percent of maximum dry density within 40 feet below finished grade and 93 percent of maximum dry density deeper than 40 feet below finished grade, unless a lower relative compaction (not less than 90 percent of maximum dry density) is justified by the soils engineer. The relative compaction shall be determined by A.S.T.M. soil compaction test D1557 where applicable. Where not applicable, a test acceptable to the Building Official shall be used, unless the owner furnishes a soils engineering report conforming with the requirements of Section J104.3, stating that the site has been investigated and giving an opinion that a fill at a steeper slope will be stable and not create a hazard to public or private property. Substantiating calculations and supporting data may be required where the Building Official determines that such information is necessary to verify the stability and safety of the proposed slope. The Building Official may require the fill slope be constructed with a face flatter in slope than two horizontal to one vertical if the Building Official finds it necessary for stability and safety.

Field density shall be determined by a method acceptable to the Building Official. However, not less than ten percent of the required density tests, uniformly distributed, shall be obtained by the Sand Cone Method.

Fill slopes steeper than two horizontal to one vertical shall be constructed by the placement of soil a sufficient distance beyond the proposed finish slope to allow compaction equipment to operate at the outer surface limits of the final slope surface. The excess fill shall be removed prior to completion or rough grading. Other construction procedures may be utilized when it is first shown to the satisfaction of the Building Official that the angle of slope, construction method and other factors will accomplish the intent of this Section.

J107.4 Maximum Slope. The slope of fill surfaces shall be no steeper than is safe for the intended use. Fill slopes shall be no steeper than 2 units horizontal in 1 unit vertical (50% slope).

J107.5 Slopes to Receive Fill. Where fill is to be placed above the top of an existing slope steeper than three horizontal to one vertical, the toe of the fill shall be set back from the top edge of the slope a minimum distance of 6 feet measured horizontally or such other distance as may be specifically recommended by a Soil Engineer or Engineering Geologist and approved by the Building Official.

J107.6 Inspection of Fill. For engineered grading, the Soils Engineer shall provide sufficient inspections during the preparation of the natural ground and the placement and compaction of the fill to be satisfied that the work is being performed in accordance with the conditions of plan approval and the appropriate requirements of this chapter. In addition to the above, the Soils Engineer shall be present during the entire fill placement and compaction of fills that will exceed a vertical height or depth of 30 feet (9144 mm) or result in a slope surface steeper than two horizontal to one vertical.

J107.6 Testing of Fills. Sufficient tests of the fill soils shall be made to determine the density thereof and to verify compliance of the soil properties with the design requirements, including soil types and shear strengths in accordance with the standards established by the Building Official.

SECTION J108 SETBACKS

J108.1 General. Cut and fill slopes shall be set back from the property lines in accordance with this section. Setback dimensions shall be horizontal distances measured perpendicular to the property line and shall be as shown in Figure J108.1., unless substantiating data is submitted justifying reduced setbacks.

J108.2 Top of slope. The setback at the top of a cut slope shall not be less than that shown in Figure J108.1, or than is required to accommodate any required interceptor drains, whichever is greater.

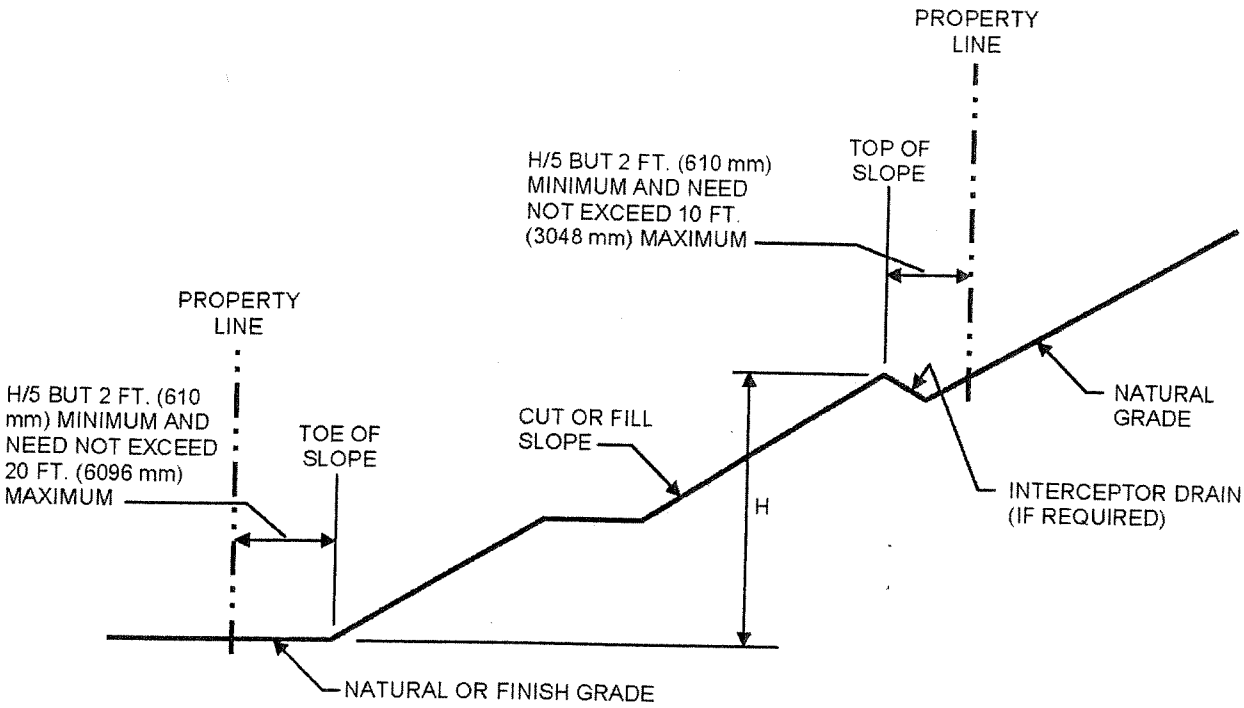


FIGURE J108.1
DRAINAGE DIMENSIONS

J108.3 Toe of Fill Slope. The toe of fill slope shall be made not nearer to the site boundary line than one half the height of the slope with a minimum of 2 feet (610 mm) and a maximum of 20 feet (6096 mm). Where required to protect adjacent properties at the toe of a slope from adverse effects of the grading, additional protection, approved by the Building Official, shall be included. Such protection may include but shall not be limited to:

1. Setbacks greater than those required by Figure J108.1.
2. Provisions for retaining walls or similar construction.
3. Erosion protection of the fill slopes.
4. Provision for the control of surface waters.

J108.4 Alternate Setbacks. The Building Official may approve alternate setbacks. The Building Official may require an investigation and recommendation by a qualified engineer or engineering geologist to demonstrate that the intent of this section has been satisfied.

SECTION J109 DRAINAGE AND TERRACING

J109.1 General. Unless otherwise recommended by a registered design professional, and approved by the Building Official, drainage facilities and terracing shall be provided in accordance with the requirements of this Section .

Exception: Drainage facilities and terracing need not be provided where the ground slope is not steeper than 3 horizontal to 1 vertical (33 percent).

J109.2 Drainage Terraces. Drainage terraces at least 8 feet (2438 mm) in width shall be established at not more than 30 foot (9144 mm) vertical intervals on all cut or fill slopes to control surface drainage and debris except that where only one terrace is required, it shall be at midheight. For cut or fill slopes greater than 100 feet (30480 mm) and up to 120 feet (36, 576 mm) in vertical height, one terrace at approximately midheight shall be 20 feet (6,096 mm) in width. Terrace widths and spacing for cut and fill slopes greater than 120 feet (36,576 mm) in height shall be designed by the Civil Engineer and approved by the Building Official. Suitable access shall be provided to permit proper cleaning and maintenance.

Drainage Swales or ditches on terraces shall have a minimum gradient of 5 percent longitudinal grade of not less than 5 percent nor more than 12 percent and a minimum depth of 1 foot (305 mm) at the flow line. There shall be no reduction in grade along the direction of flow unless the velocity of flow is such that slope debris will remain in suspension on the reduced grade. Such terraces and must be paved with reinforced concrete not less than 3 inches (76 mm) in thickness, reinforced with 6-inch (152 mm) by 6-inch (152 mm) No. 10 by No. 10 welded wire fabric or equivalent reinforcing centered in the concrete slab or an approved equal paving. They shall have a minimum depth at the deepest point of 1 foot (305 mm) and a minimum paved width of 5 feet (1524 mm). Drainage terraces exceeding 8 feet (2438 mm) in width need only be so paved for a width of 8 feet (2438 mm) provided such pavement provides a paved channel at least 1 foot (305 mm) in depth. Downdrains or drainage outlets shall be provided at approximately 300-foot (91.44 m) intervals along the drainage terrace or at equivalent locations. Downdrains and drainage outlets shall be of approved materials and of adequate capacity to convey the intercepted waters to the point of disposal as defined in Section J109.5.

J109.3 Interceptor drains and overflow protection. Berms, interceptor drains or other devices shall be provided at the top of cut or fill slopes to prevent surface waters from overflowing onto and damaging the face of a slope. Berms used for slope protection shall not be less than 12 inches (305mm) above the level of the pad and shall slope back at least 4 feet (1219 mm) from the top of the slope.

Interceptor drains shall be installed along the top of manufactured slopes receiving drainage from a slope with a tributary width greater than 40 feet (12 192 mm), measured horizontally. They shall have a minimum depth of 1 foot (305 mm) and a minimum width of 3 feet (915 mm). The slope shall be approved by the Building Official,

but shall not be less than 50 horizontal to 1 vertical (2 percent). The drain shall be paved with concrete not less than 3 inches (76 mm) in thickness, or by other materials suitable to the application Discharge from the drain shall be accomplished in a manner to prevent erosion and shall be approved by the Building Official.

J109.4 Drainage across property lines. Surface drainage across property lines shall not exceed that which existed prior to grading. Excess or concentrated drainage shall be contained on site or directed to an approved drainage facility. Erosion of the ground in the area of discharge shall be prevented by installation of nonerosive down drains or other devices.

J109.5 Disposal. All drainage facilities shall be designed to carry waters to the nearest practicable street, storm drain, or natural watercourse drainage way approved by the Building Official and Public Works Director or other appropriate governmental agency jurisdiction as a safe place to deposit such waters. Erosion of ground in the area of discharge shall be prevented by installation of non-erosive down drains or other devices. Desilting basins, filter barriers or other methods, as approved by the Building Official and/or the Public Works Director, shall be utilized to remove sediments from surface waters before such waters are allowed to enter streets, storm drains or natural watercourses. If the drainage device discharges onto natural ground, riprap or a similar energy dissipater may be required.

Building pads shall have a drainage gradient of 2 percent toward approved drainage facilities, a public street or drainage structure approved to receive storm waters unless waived by the Building Official. A lesser slope may be approved by the Building Official for sites graded in relatively flat terrain, or where special drainage provisions are made, when the building official finds such modification will not result in unfavorable drainage conditions.

SECTION J110 SLOPE PLANTING AND EROSION CONTROL

J110.1 General. The faces of cut and fill slopes shall be prepared and maintained to control erosion. This control shall consist of effective planting, erosion control blankets, soil stabilizers or other means as approved by the Building Official.

Exception: Erosion control measures need not be provided on cut slopes not subject to erosion due to the erosion-resistant character of the materials as approved by the Building Official.

Erosion control for the slopes shall be installed as soon as practicable and prior to calling for final inspection.

J110.2 Other devices. Where necessary, check dams, cribbing, riprap or other devices or methods shall be employed to control erosion and provide safety.

SECTION J111 NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) COMPLIANCE

J111.1 General. All grading plans and permits shall comply with the provisions of this section for NPDES compliance including the owner of any property on which grading has been performed and which requires a grading permit under Section J103.

J111.2 Erosion/Sedimentation Control Plan (ESCP). No grading permit shall be issued unless the plans for such work include a Erosion/Sedimentation Control Plan, that conforms to the Erosion/Sedimentation Control Policy of the City of Santa Barbara's Building & Safety Division, with details of best management practices, including desilting basins or other temporary drainage or control measures, or both, as may be necessary to control construction-related pollutants which originate from the site as a result of construction related activities. Sites which have been graded and which requires a grading permit under Section J103 are subject to penalties and fines per Section J111.4

All best management practices shall be installed before grading begins. As grading progresses, all best management practices shall be updated as necessary to prevent erosion and control constructed related pollutants from discharging from the site. All best management practices shall be maintained in good working order to the satisfaction of the Building Official unless final grading approval has been granted by the Building Official and all permanent drainage and erosion control systems, if required, are in place.

J111.4 Erosion/Sedimentation Control Plan, Effect of Noncompliance. Should the owner fail to install the best management practices required by Section J111.2 it shall be deemed that a default has occurred under the conditions of the grading permit security. There upon, the Building Official may enter the property for the purpose of installing, by City forces or by other means, the drainage, erosion control and other devices shown on the approved plans, or if there are no approved plans, as the Building Official may deem necessary to protect adjoining property from the effects of erosion, flooding, or the deposition of mud, debris or constructed related pollutants, or the Building Official may cause the owner to be prosecuted as a violator of this Code or may take both actions. The Building Official shall have the authority to collect the penalties imposed by this section upon determining that the site is non-compliance. Payment of penalty shall not relieve any persons from fully complying with the requirements of this Code in the execution of the work.

If the best management practices for storm water pollution prevention are not installed as prescribed in Section J111.2 and approved by the Building Official, the following penalties shall be imposed:

Grading Permit Volume Penalty:

1--10,000 cubic yards (1--7645.5 m3) = $100.00 per day

10,001--100,000 cubic yards (7646.3--76455 m3) = $250.00 per day

More than 100,000 cubic yards (76455 m3) = $500.00 per day

NOTE: See Section J108 for inspection request requirements.

SECTION J112 DUST CONTROL

Santa Barbara County Air Pollution Control District's dust control measures identified as Construction Impact Mitigation: PM10 Mitigation Measures in SBCAPCD's *Scope and Content of Air Quality Sections in Environmental Documents* shall be adhered to during all ground disturbing activities.

SECTION J113 REFERENCED STANDARDS

These regulations establish minimum standards and are not intended to prevent the use of alternate materials, methods or means of conforming to such standards, provided such alternate has been approved.

The Building Official shall approve such an alternate provided he or she finds that the alternate is, for the purpose intended, at least the equivalent of that prescribed in this Code in quality, strength, effectiveness, durability and safety.

The Building Official shall require that sufficient evidence or proof be submitted to substantiate any claims regarding the alternate.

The standards listed below are recognized standards, compliance with these standards recognized standards shall be prima facie evidence with the standard of duty set forth in Section 107.

1. Testing.

a) ASTM D 1557, Laboratory Characteristics Compaction of Soil Using Modified Effort

b) ASTM D 1556, Density and Unit Weight of Soils In Place by the Sand Cone Method

c) ASTM D 2167, Density and Unit Weight of Soils In Place by the Rubber--Balloon Method

d) ASTM D 2937, Density of Soils in Place by the Drive--Cylinder Method

e) ASTM D 2922, Density of Soil and Soil Aggregate In Place by Nuclear Methods

f) ASTM D 3017, Water Content of Soil and Rock in Place by Nuclear Methods

SECTION 3. Chapter 22.04 of Title 22 of the Santa Barbara Municipal Code is amended by adding Section 22.04.025 to read as follows:

22.04.025 Amendments to California Residential Code

The 2010 California Residential Code, as adopted by reference pursuant to this Chapter, is amended as set forth in this Section 22.04.025.

A. Section R310.1 of the California Residential Code is amended to read as follows:

R310.1 Emergency escape and rescue required. Basements, habitable attics and every sleeping room shall have at least one operable emergency escape and rescue opening. Where basements contain one or more sleeping rooms, emergency egress and rescue openings shall be required in each sleeping room. Where emergency escape and rescue openings are provided they shall have a sill height of not more than 44 inches (1118 mm) above the floor. Where a door opening having a threshold below the adjacent ground elevation serves as an emergency escape and rescue opening and is provided with a bulkhead enclosure, the bulkhead enclosure shall comply with Section R310.3. The net clear opening dimensions required by this section shall be obtained by the normal operation of the emergency escape and rescue opening from the inside. Emergency escape and rescue openings with a finished sill height below the adjacent ground elevation shall be provided with a window well in accordance with Section R310.2. Emergency escape and rescue openings shall open or lead to a public way, or to a yard or court that opens to a public way. If the emergency escape and rescue opening does not open directly into a public way, or to a yard or court, the minimum headroom height between the opening and the public way, yard or court shall be 80 inches (2033 mm).

B. Section R313.1 of the California Residential Code is amended to read as follows:

R313.1 Townhouse automatic fire sprinkler systems. An automatic residential fire sprinkler system shall be installed in townhouses.

R313.1.1 Design and installation. Automatic residential fire sprinkler systems for townhouses shall be designed and installed in accordance with Section P2904 *R313.3 or NFPA 13D.*

C. Section R313.2 of the California Residential Code is amended to read as follows:

R313.2 One- and two-family dwellings automatic fire sprinkler systems. An automatic residential fire sprinkler system shall be installed in one- and two- family dwellings.

R313.2.1 Design and installation. Automatic residential fire sprinkler systems shall be designed and installed in accordance with Section P2904 *R313.3* or NFPA 13D.

R313.2.2 City of Santa Barbara Local Requirements. Approved sprinkler systems shall be provided throughout a building in connection with the projects or changes of occupancy listed in this Section R313.2.2 or as specified elsewhere in this Section R313, whichever is more protective.

R313.2.3 Additions to or Remodels of Single Family Residences, duplexes and townhouses. Sprinklers are required for the addition of floor area to, or the modification or alteration of the interior of, an existing building that contains a Group R, Division 3 occupancy and townhouses, where the floor area of the portion of the building that is added, modified, or altered exceeds 75% of the existing floor area of the building. For purposes of this section, all additions, modifications, or alterations to an existing building that occur after the effective date of the ordinance adopting this section shall be counted in the aggregate toward the 75% threshold measured against the floor area of the building as it existed on the effective date of the ordinance adopting this section.

R313.2.4 Computation of Square Footage. For the purposes of this Section R313, the floor area of buildings shall be computed in accordance with the definition of "Floor area, Gross" provided in Section 1002.1 of the California Building Code.

R313.2.5 Existing use. Except as provided in this Section R313, any building in existence at the time of the effective date of the ordinance adopting this section may continue with such use if such use was legal at the time.

D. Section R317.3.1 of the California Residential Code is amended to read as follows:

R317.3.1 Fasteners for preservative-treated wood. Fasteners for preservative-treated wood shall be of hot dipped zinc-coated galvanized steel, stainless steel, silicon bronze or copper. Coating types and weights for connectors in contact with preservative-treated wood shall be in accordance with the manufacturer's recommendations. In the absence of manufacturers recommendations, a minimum of ASTM A 653 type G185 zinc-coated galvanized steel shall be used.

Exceptions:

1. One-half-inch (12.7 mm) diameter or greater steel bolts.
2. Fasteners other than nails and timber rivets shall be permitted to be of mechanically deposited zinc coated steel with coating weights in accordance with ASTM B 695, Class 55 minimum.
3. Plain carbon steel fasteners in SBX/DOT and zinc borate preservative treated wood in an interior, dry environment shall be permitted.

E. Section R327.1.1 of the California Residential Code is amended to read as follows:

R327.1.1 Scope. This chapter applies to building materials, systems and/or assemblies used in the exterior design and construction of new buildings, remodels or additions to existing buildings located within a Wildland-Urban Interface Fire Area as defined in Section R327.2 and R327.1.3.1 Item #3.

F. Section R327.1.3 of the California Residential Code is amended to read as follows:

R327.1.3. Application. New buildings, remodels, or additions to existing buildings located in any Fire Hazard Severity Zone or Wildland-Urban Interface Fire Area designated by the enforcing agency constructed after this application sate shall comply with the provisions of this code.

Exception: Accessory and/or Group U occupancy buildings may be exempted from all or portions of this chapter upon approval of the Fire Marshall and/or Chief Building Official.

G. Section R327.5.2 of the California Residential Code is deleted in its entirety and readopted to read as follows:

327.5.2 Roof Coverings. Roof coverings on new buildings shall be class A noncombustible in accordance with adopted UBC Standards or otherwise as may be approved by the Chief Building Official. Roof coverings shall be class A or noncombustible fire retardant materials on existing buildings and additions or repairs to existing buildings. Treated or untreated wood shakes or shingles shall not be permitted, except on existing structures which are constructed with shake or shingle roofs where less than 20% of the existing roof is being replaced within a two (2) year period, provided such replacement roofing is fire retardant treated wood shakes or shingles.

H. Section R327.5.4 of the California Residential Code is amended to read as follows:

R327.5.4 Roof Gutters. Roof gutters shall be provided with an approved means to prevent the accumulation of leaves and debris in the gutter. All roof gutters and downspouts shall be constructed of non-combustible materials.

I. Section R327.5 of the California Residential Code is amended by adding a Section R327.5.5 "Drip Edge Flashing" to read as follows:

R327.5.5 Drip Edge Flashing. When drip edge flashing is used at the free edges of roofing materials, it shall be non-combustible.

J. Section R327.6.2 of the California Residential Code is amended to read as follows:

R327.6.2 Requirements. Ventilation openings for enclosed attics, enclosed eave soffit spaces, enclosed rafter spaces formed where ceilings are applied directly to the underside of roof rafters, and underfloor ventilation openings shall be fully covered with metal wire mesh, vents, other materials, or other devices that meet the following requirements:

1. The dimensions of the openings therein shall be a minimum of 1/16th inch (1.6 mm) and shall not exceed 1/8th inch (3.2mm).
2. The materials used shall be noncombustible.
3. The materials used shall be corrosion resistant.
4. Individual ventilation openings shall not exceed 144 square inches.
5. Turbine attic vents shall be equipped to allow one-way direction rotation only and shall not free spin in both directions.
6. Ventilation openings protected with vent openings that resist the intrusion of flame and embers, and which are listed by the State Fire Marshal, are exempt from complying with this sub-section.

K. Section R327.7.3 of the California Residential Code is amended to read as follows:

R327.7.3. Exterior Walls. The exterior wall covering or wall assembly shall comply with one of the following requirements;

1. Noncombustible material
2. Ignition-resistant material
3. Heavy-timber exterior wall assembly
4. Log wall construction assembly
5. Wall assemblies that meet the performance criteria in accordance with the test procedures for a 10-minute direct flame contact exposure test set forth in SFM Standard 12-7A-1.

L. Section R327.8.2 of the California Residential Code is amended to read as follows:

R327.8.2 Exterior glazing. The following exterior glazing materials and/or assemblies shall comply with this section:

1. Exterior windows and/or skylights.
2. Exterior glazed doors.
3. Glazed openings within exterior doors.
4. Glazed openings within exterior garage doors.
5. Exterior structural glass veneer.

M. Section R327.8.2 of the California Residential Code is amended by adding Section R327.8.2.3 to read as follows:

R327.8.2.1.1 Vinyl framing. Glazing frames made of vinyl materials shall have welded corners, metal reinforcement in the interlock area, and be certified to the most current edition of ANSI/AAMA/NWWDA 101/I.S.2 structural requirements.

N. Section R327 of the California Residential Code is amended by adding a new Section R327.11 "Spark Arrestors" to read as follows:

R327.11 Spark Arrestors. All structures having any chimney, flue, or stovepipes shall be equipped with an approved spark arrestor if the chimney, flue, or stovepipe is attached to any solid fuel burning fireplace, stove, barbecue or similar appliance or device.

O. Chapter 3 of the California Residential Code is amended by adding new Sections R329 through R333 to read as follows:

R329 Special Inspections and Structural Tests. When structural tests and special inspections are required due to the methods of construction the tests and inspections shall be performed and documented as is required in Chapter 17 of the California Building Code.

R330. Encroachments into the Public Right of Way. Encroachments into the public right of way shall comply with the standards of Chapter 32 of the California Building Code.

R331. Safeguards During Construction. Provisions for pedestrian safety during construction and the protection of adjacent public and private properties shall be governed by the requirements of Chapter 33 of the California Building Code.

R332. Sound Transmission Control. Wall and floor-ceiling assemblies separating dwellings from each other and from public or service areas such as interior corridors, garages, and mechanical spaces, shall provide airborne sound insulation for walls, and both airborne and impact sound insulation for floor-ceiling assemblies. Standards and regulations controlling sound transmission between attached dwellings units shall comply with Section 1207 of the California Building Code.

R333. Residential Swimming Pools and Spas. Residential swimming pools and spas proposed appurtenant to occupancies regulated by this code, shall be installed per Section 3109.4.4 of the California Building Code as amended.

P. Section R401 of the California Residential Code is amended by adding a new Section 401.5 "Grading" to read as follows:

R401.5 Grading. Grading for all structures covered by this code shall be per Appendix J of the currently adopted California Building Code as amended.

Q. Section R3401.4 of the California Residential Code is deleted in its entirety and readopted to read as follows:

R401.4. Soils Reports/Geotech Investigations. A Soils Report or Geotechnical Investigation shall be required as per Section 1803 of the California Building Code.

Exceptions:

1. Single-story additions with less than a 500 sq. ft. "footprint" and that are less than 50% of the existing structure they are attached to.
2. Second story additions to an existing slab on grade structure that does not require new footings.
3. Detached "U" Occupancy Category buildings.

Projects utilizing any of these exceptions shall use the presumptive load-bearing values of Table R401.4.1.

R. Section R401.4.1 of the California Residential Code is deleted in its entirety. Table R401.4.1 is not deleted.

S. Section R403.1.2 of the California Residential Code is amended to read as follows:

R403.1.2 Continuous Footing in Seismic Design Categories D_0, D_1 and D_2. The braced wall panels at exterior walls of buildings located in Seismic Design Categories D_0, $D_1$and D_2 shall be supported by continuous footings. All required interior braced wall panels in buildings shall be supported by continuous footings.

T. Section R403.1.3 of the California Residential Code is amended to read as follows:

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

For structures located in Seismic Design Categories D_0, D_1, D2, and E, stepped footings shall be reinforced with four ½-inch diameter (12.7 mm) deformed reinforcing bars. Two bars shall be placed at the top of the footing and two bars shall be placed at the bottom of the footing.

U. Section R404.2 of the California Residential Code is amended to read as follows:

R404.2 Wood foundation walls. Wood foundation walls shall be constructed in accordance with the provisions of Sections R404.2.1 through R404.2.6 and with the details shown in Figures 403.I(2) and R403.1(3). Wood foundation walls shall not be used for structures located in Seismic Design Categories D_0, D_1, D_2, and E.

V. Section R802.10.2 of the California Residential Code is amended to read as follows:

R802.10.2 Design. Wood trusses shall be designed in accordance with accepted engineering practice. The design and manufacture of metal-plate-connected wood trusses shall comply with ANSI/TPI 1. The truss design drawings shall be prepared by a professional registered by the State of California.

W. Section R902.1 of the California Residential Code is amended to read as follows:

R902.1 Roofing covering materials. Roofs shall be covered with materials as set forth in Sections R904 and R905. A minimum Class A or B roof shall be installed in areas designated by this section. Class A and B roofing required by this section to be listed shall be tested in accordance with UL 790 or ASTM E 108.

X. Section R902.1.1 of the California Residential Code is amended to read as follows:

R902.1.1 Roof coverings within Wildland-Urban Interface Fire Area. The roofing and re-roofing requirements of structures within a Wildland-Urban Interface Fire Area as defined in Section R327.2 and R327.1.3.1 Item #3 shall meet the requirements of R327.

Y. Section R902.1.2 of the California Residential Code is deleted in its entirety without replacement.

Z. Section R902.1.3 of the California Residential Code is deleted in its entirety and readopted to read as follows:

R902.1.3 Roof coverings in all other areas. The roof covering or roofing assembly of any new building or the re-roofing of any existing building, regardless of type or occupancy classification, shall be no less than Class B, except that Group H, Division 1 and Group I occupancies shall be Class A. Treated or untreated wood shakes or shingles shall not be permitted, except on existing structures which are constructed with shake or shingle roofs where less than 20% of the existing roof is being replaced within a two-year period, provided such replacement roofing is fire retardant treated wood shakes or shingles.

Exception: In the High Fire Hazard District, roof coverings shall be in accordance with Section R327 as amended.

SECTION 4. Section 22.04.030 of Chapter 22.04 of Title 22 of the Santa Barbara Municipal Code is adopted to read as follows:

22.04.030. Amendments to California Plumbing Code.

The 2010 California Plumbing Code, as adopted by reference pursuant to this Chapter, is amended as set forth in this Section 22.04.030.

A. Section 103.4.1 of the California Plumbing Code is deleted in its entirety and readopted to read as follows:

103.4.1 Permit fees. The fee for each permit shall be established by resolution of the City Council of the City of Santa Barbara.

B. Section 412.1 of the California Plumbing Code is amended to read as follows:

412.1 Fixture Count. Plumbing fixtures shall be provided for the type of building occupancy and in the minimum number shown in Table 4-1*[OSHPD 1, 2,3 & 4] and Table 4-2.*

Exception: Within existing buildings, the Chief Building Official may make alternate consideration findings for partial compliance on the basis of the following criteria:

1. The cost of compliance is in excess of 15% of all cost of construction as proposed or incurred within one 1) year before or after the work proposed; and

2. The proposed use does not intensify the occupant load by more than 15% of the existing occupant load; and

3. Water closets are not reduced by more than one fixture from that required under CPC Table 4-1 criteria for the use proposed; and

4. Other physical constraints of existing buildings and occupancies relative to disabled access regulations exist.

C. Chapter 4 of the California Plumbing Code is amended to add Section 419 Water Meters Required to read as follows:

419. Water Meters Required.

419.1. Group R Occupancies. Each dwelling unit, including but not limited to apartments units, shall be served by separate City water meter. Except in projects of less than five (5) dwelling units, such meter shall serve only uses within the dwelling unit and other uses shall be served by an additional separate City water meter.

419.2. Occupancies Other Than Group R. All occupancies other than Group R on a single parcel of land, may be served by a single meter, except that no such meter shall also serve any Group R occupancy.

D. Section 603.0 of the California Plumbing Code is amended to read as follows:

603.0 Cross-connection control. Cross-connection control shall be provided in accordance with the provisions of this chapter and Sections 7583 through 7630 "Drinking Water Supplies" of Title 17 of the California Administrative Code, and where there is a conflict between the requirements, the higher level of protection shall apply.

No person shall install any water-operated equipment or mechanism, or use any water-treating chemical or substance, if it is found that such equipment, mechanism, chemical, or substance causes pollution or contamination of the domestic water supply. Such equipment or mechanism shall be permitted only when equipped with an approved backflow prevention
device or assembly.

E. Section 608.2 of the California Plumbing Code is amended to read as follows

608.2 Excessive Water Pressure. Regardless of the pressure at the main, all occupancies served by the City of Santa Barbara Water Resource Division shall be equipped with an approved pressure regulator preceded by a strainer (unless a strainer is built into the device). Any irrigation system or other secondary piping that bypasses said regulator shall be equipped with its own approved pressure regulator and strainer, installed upstream of any piping, backflow device, valve, solenoid or outlet. Such regulator(s) shall control the pressure to all water outlets in the building unless otherwise approved by the Authority Having Jurisdiction. Each such regulator and strainer shall be accessibly located above ground or in a vault equipped with a properly sized and sloped bore-sighted drain to daylight, shall be protected from freezing, and shall have the strainer readily accessible for cleaning without removing the regulator or strainer body or disconnecting the supply piping. Pipe size determinations shall be based on 80 percent of I the reduced pressure when using Table 6-6. An approved expansion tank shall be installed in the cold water distribution piping downstream of each such regulator to prevent excessive pressure from developing due to thermal expansion and to maintain the pressure setting of the regulator. The expansion tank shall be properly sized and installed in accordance with the manufacturer's instructions and listing. Systems designed by registered engineers shall be permitted to use approved pressure relief valves in lieu of expansion tanks provided such relief valves have a maximum pressure relief setting of one hundred (100) pounds per square inch (689 kPa) or less.

F. Section 710.0 of the California Plumbing Code is amended to add Sections 710.14 and 710.15 to read as follows:

710.14 Sewage Pump Signaling Device. Specially designed sewage disposal systems which depend upon a sewage lift pump or ejector for their operation shall be provided with an approved audible signaling device to warn building occupants in the event of pump failure.

710.15. Approved Type Backwater Valve. When the valuation of an addition, alteration, or repair to a building exceeds $1,000.00 or when additions, alterations, or repairs are made to the plumbing system or fixtures and a permit is required, an approved backwater valve shall be installed in accordance with Section 710.0 of this Code.

Exception: Repairs to the exterior surface of a building are exempt from the requirements of this section.

G. Section 713.0 of the California Plumbing Code is amended to read as follows:

713.2 When no public sewer intended to serve any lot or premises is available in any thoroughfare or right of way abutting such lot or premises, drainage piping from any building or works shall be connected to an approved private sewage disposal system.

Approved private systems may be used until a public system is available. Upon written notice by the Chief Building Official to the record owner of title, such private systems shall be abandoned in accordance with the provisions of Section 722.0 of this code and permits to connect to the public system must be secured.

SECTION 5. Section 22.04.040 of Chapter 22.04 of Title 22 of the Santa Barbara Municipal Code is adopted to read as follows:

22.04.040 Amendments to the California Mechanical Code.

The 2010 California Mechanical Code, as adopted by reference pursuant to this Chapter, is amended as set forth in this Section 22.04.040.

A. Section 110 of the California Mechanical Code is hereby deleted in its entirety and readopted to read as follows:

110 Board of Appeals. Appeals of orders, decisions, or determinations made by the Authority Having Jurisdiction shall be addressed in accordance with the provisions of Section 113 and Appendix B of the California Building Code as amended by the City of Santa Barbara in Section 22.04.020.

B. Section 115 of Appendix 1 of the California Mechanical Code is deleted in its entirety and readopted to read as follows:

115 Permit fees. The fee for each permit shall be established by resolution of the City Council of the City of Santa Barbara.

SECTION 6. Section 22.04.050 of Chapter 22.04 of Title 22 of the Santa Barbara Municipal Code is adopted to read as follows:

22.04.050. Amendments to the California Electrical Code.

The 2010 California Electrical Code, as adopted by reference pursuant to this Chapter, is amended as set forth in this Section 22.04.050. Article 89.108.8 California Electrical Code is deleted and readopted to read as follows:

89.108.8 Appeals Board. Appeals of orders, decisions, or determinations made by the Authority Having Jurisdiction shall be addressed in accordance with the provisions of Section 113 of Chapter 1 and Appendix B of the California Building Code as amended by the City of Santa Barbara in Section 22.04.020.

SECTION 7. Section 22.04.060 of Chapter 22.04 of Title 22 of the Santa Barbara Municipal Code is adopted to read as follows:

22.04.060 Amendments to the 2009 International Property Maintenance Code

The 2009 International Property Maintenance Code, as adopted by reference pursuant to this Chapter, is amended as set forth in this Section 22.04.060.

A. Section 103 of the International Property Maintenance Code is deleted in its entirety.

B. Section 107 of the International Property Maintenance Code is deleted in its entirety and readopted to read as follows:

107 Notice and Order. The building official shall issue a notice and order directed to the record owner of the building. The notice and order shall contain the following:

1. The street address and a legal description sufficient for identification of the premises upon which the building is located.

2. A statement that the building official has found the building to be dangerous with a brief and concise description of the conditions found to render the building dangerous under the provisions of Section 302 of this code.

3. A statement of the action required to be taken as determined by the building official.

3.1 If the building official has determined that the building or structure must be repaired, the order shall require that all required permits be secured therefore and the work physically commenced within such time (not to exceed 60 days from the date of the order) and completed within such time as the building official shall determine is reasonable under all of the circumstances.

3.2 If the building official has determined that the building or structure must be vacated, the order shall require that the building or structure shall be vacated within a certain time from the date of the order as determined by the building official to be reasonable.

3.3 If the building official has determined that the building or structure must be demolished, the order shall require that the building be vacated within such time as the building official shall determine reasonable (not to exceed 60 days from the date of the order); that all required permits be secured therefore within 60 days from the date of the order; and that the demolition be completed within such time as the building official shall determine is reasonable.

4. Statements advising that if any required repair or demolition work (without vacation also being required) is not commenced within the time specified, the building official (i) will order the building vacated and posted to prevent further occupancy until the work is completed, (ii) may proceed to cause the work to be done and charge the costs thereof against the property or its owner, and (iii) will refer the case to the City Attorney for the initiation of an appropriate legal action for abatement and appropriate civil or criminal penalties..

5. Statements advising (i) that any person having any record title or legal interest in the building may appeal from the notice and order or any action of the building official to the Building and Fire Code Board of Appeals, provided the appeal is made in writing as provided in this code, and filed with the building official within 10 days from the date of service of such notice and order, and (ii) that failure to appeal will constitute a waiver of all right to an administrative hearing and determination of the matter.

C. Section 111 of the International Property Maintenance Code is deleted and readopted to read as follows:

111 Means of Appeal. Appeals of orders, decisions, or determinations made by the Authority Having Jurisdiction shall be addressed in accordance with the provisions of Section 113 of Chapter 1 and Appendix B of the California Building Code as amended by the City of Santa Barbara in Section 22.04.020.

SECTION 8. Whenever in this Ordinance or in any of the codes adopted by reference hereby, another code or publication of standards or of rules or regulations is referred to, such reference shall incorporate and adopt by reference such other codes, standards or rules or regulations as part of this ordinance. A copy of said primary and secondary codes are on file and shall be maintained for public inspection by the Chief Building Official as provided in Title 5, Division 1, Part 1, Chapter 1 of the California Government Code while this Ordinance is in force.

SECTION 9. Ordinance Numbers 5440 are 5451 are repealed upon the effective date of this ordinance.

SECTION 10. The provisions of this ordinance shall take effect at 12:01 a.m. on January 1, 2011.

ORDINANCE NO. 5536

STATE OF CALIFORNIA)
)
COUNTY OF SANTA BARBARA) ss.
)
CITY OF SANTA BARBARA)

I HEREBY CERTIFY that the foregoing ordinance was introduced on November 2, 2010, and was adopted by the Council of the City of Santa Barbara at a meeting held on November 9, 2010, by the following roll call vote:

AYES: Councilmembers Dale Francisco, Frank Hotchkiss, Grant House, Michael Self, Bendy White; Mayor Helene Schneider

NOES: None

ABSENT: Councilmember Das Williams

ABSTENTIONS: None

IN WITNESS WHEREOF, I have hereto set my hand and affixed the official seal of the City of Santa Barbara on November 10, 2010.

Cynthia M. Rodriguez, CMC
City Clerk Services Manager

I HEREBY APPROVE the foregoing ordinance on November 10, 2010.

Helene Schneider
Mayor