2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

RESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2020, Includes August 2019 Supplement)

CHAPTER 3
GREEN BUILDING

SECTION 301.1 SCOPE

301.1.1 Scope. This chapter is intended to provide a framework for the design and construction of energy efficient and sustainable residential buildings. It includes provisions for the design, construction, and operation of buildings that meet or exceed the performance standards established by the California Energy Commission. The chapter applies to new residential buildings and major additions to existing residential buildings. The chapter also includes provisions for the design and construction of existing residential buildings to achieve energy efficiency and sustainability goals.

SECTION 301 MIXED OCCUPANCY BUILDINGS

301.1.2 Mixed Occupancy Buildings. Mixed occupancy buildings are those buildings that contain at least 1 type of dwelling unit in addition to one or more commercial or institutional occupancies. These buildings shall comply with the applicable provisions of the California Building Code and the provisions of this chapter.

SECTION 4 RESIDENTIAL MANDATORY MEASURES

4.1 PLANNING AND DESIGN

4.1.1 Residential Energy Standards. This section contains the provisions for the planning and design of residential buildings, including the selection of energy efficient building materials, the design of energy efficient systems and equipment, and the requirement for energy efficient building envelope and lighting systems.

4.2 ENERGY EFFICIENCY

4.2.1 General. The performance standards for energy efficiency are intended to provide a uniform approach to the design and construction of energy efficient residential buildings. The performance standards are intended to be achieved through the use of energy efficient building materials, systems, and equipment, and through the implementation of energy efficient design practices.

4.2.2 Energy Efficiency Requirements. The energy efficiency requirements shall be met by the design and construction of the building and shall be verified by the building inspection authority.

4.3 WATER EFFICIENCY AND CONSERVATION

4.3.1 Water Efficiency Strategies. This section contains the provisions for the design and implementation of strategies to reduce water consumption in residential buildings. These strategies include the use of water efficient fixtures, appliances, and systems, as well as the provision of outdoor irrigation systems.

4.4 MATERIAL CONSERVATION AND RESOURCE RECYCLING

4.4.1 Material Conservation. This section contains the provisions for the design and construction of buildings that conserve resources and reduce waste. These provisions include the requirement for the use of recycled materials, the prohibition of certain hazardous materials, and the requirement for the design of buildings that minimize waste.

4.5 BUILDING MAINTENANCE AND OPERATIONAL PERFORMANCE

4.5.1 Building Maintenance. This section contains the provisions for the maintenance and operational performance of residential buildings. These provisions include the requirement for the regular maintenance of building systems, the provision of energy efficient maintenance practices, and the prohibition of certain energy wasting practices.

4.6 ENVIRONMENTAL QUALITY

4.6.1 General. This section contains the provisions for the design and construction of buildings that achieve environmental quality objectives. These provisions include the requirement for the use of environmentally sustainable materials and systems, and the prohibition of certain harmful materials and practices.

APPENDIX A: PERFORMANCE LEVELS

A.1.1 Performance Levels. This appendix contains the performance levels for residential buildings. The performance levels are intended to provide a framework for the design and construction of buildings that achieve energy efficiency, water efficiency, and environmental quality objectives.

APPENDIX B: PROVISIONS FOR THE DESIGN AND CONSTRUCTION OF RESIDENTIAL BUILDINGS

B.1.1 Design and Construction. This appendix contains the provisions for the design and construction of residential buildings. These provisions include the requirement for the use of energy efficient materials and systems, the prohibition of certain energy wasting practices, and the requirement for the design of buildings that achieve environmental quality objectives.

APPENDIX C: ANALYSIS AND MONITORING

C.1.1 Analysis and Monitoring. This appendix contains the provisions for the analysis and monitoring of the performance of residential buildings. These provisions include the requirement for the use of energy efficient monitoring systems, the prohibition of certain energy wasting practices, and the requirement for the design of buildings that achieve environmental quality objectives.
### WINDOW SCHEDULE

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MAINTENANCE STATEMENT

The proposed storm water BMPs, which include infiltration basins and segmented paving shall be maintained as described in Santa Barbara Municipal Code 22.87.030 in accordance with their approved specifications.

Owner: Marco Babich
Signature: ________________________
Date: ____________________________

STORMWATER BMPs

A. Infiltration Trench for North house roof and east garage.
TOTAL Volume = 14.8 CY
FOR EXAMPLE: Area = 400 sq. ft and Gravel depth 12" ft.

B. Gravel Permeable Walk Way with 3" ADS Drain Pipe under underneath at 1% slope.

C. Segmented Drive Way with 3" gravel collection channels and drain pipe directing.

DETAIL C-1. Concrete gap with drain pipe.

DETAIL C-1. Concrete gap with no drain pipe.

1-1-1/2" rock
Concrete Slab
Native Soil

2" PVC overflow at 1" per 10'

W-1.0

ARCHITECTURE | PLANNING
Thomas Ochner AIA
Architect

STORMWATER BMPs

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Standard Erosion Control BMPs

1. All construction equipment will be inspected for leaks before being brought on site. All equipment will be well maintained and inspected daily while on site, to prevent leaks of fuels, lubricants, or other fluids.

2. Service and refueling will be conducted in a designated area, where no potential exists for fuel spills to seep or wash into waterways.

3. If more than 0.25 inch of rain is forecast during construction, all spoil piles will be covered with plastic and surrounded with sediment control technologies or berms to prevent sediment run-off.

4. During project Proposed Project construction, all trash that may attract predators will be contained properly in covered garbage receptacles and removed from the site daily. After construction, all trash and construction debris will be removed from the work area.

5. All exposed surfaces will be watered two times daily or as needed to minimize fugitive dust from leaving the project area and causing a public nuisance or a violation of an ambient air standard.

Straw wattles or silt fencing shall be installed at the toe of all exposed slopes steeper than 4H:1V when threat of rain fall within next 24 hours.