# FINAL EXPRESS TERMS
# FOR PROPOSED BUILDING STANDARDS
# OF THE
# DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
# REGARDING THE 2019 CALIFORNIA PLUMBING CODE
# CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 5

**(HCD 02/18)**

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The Department of Housing and Community Development (HCD) proposes to adopt the 2018 edition of the Uniform Plumbing Code (UPC) for codification into the 2019 edition of the California Plumbing Code (CPC) as presented on the following pages, including any necessary amendments.

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**LEGEND FOR EXPRESS TERMS:**

1. Model Code language appears upright.
2. Existing California amendments appear in *italics*.
3. Amended model code or new California amendments appear <u>*underlined and in italics*</u>.
4. Repealed model code language appears ~~upright and in strikeout~~.
5. Repealed California amendments appear in ~~*italics and strikeout*~~.

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## SUMMARY OF REGULATORY ACTION

**HCD PROPOSES TO:**

- Repeal the 2015 edition of the Uniform Plumbing Code (UPC)
- Repeal the 2016 edition of the California Plumbing Code (CPC), including existing California amendments to the model code that are no longer necessary
- Adopt sections from the 2018 UPC into the 2019 CPC **without amendments**
- Adopt sections from the 2018 UPC into the 2019 CPC **with existing amendments**
- Bring forward existing California amendments from the 2016 CPC for adoption into the 2019 CPC **without modifications**
- Bring forward existing California amendments from the 2016 CPC for adoption into the 2019 CPC **with nonsubstantive editorial modifications**
- Adopt sections from the 2018 UPC into the 2019 CPC **with new amendments that do not change the regulatory effect**
- Bring forward existing California amendments from the 2016 CPC for adoption into the 2019 CPC **with new modifications that do not change the regulatory effect**
- Adopt sections from the 2018 UPC into the 2019 CPC **with new amendments**
- Bring forward existing California amendments from the 2016 CPC for adoption into the 2019 CPC **with modifications**
- Adopt new amendments into the 2019 CPC
- Not adopt specified sections of the 2018 UPC

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1. **HCD proposes to bring forward Chapter 1, Division 1, Sections 1.1 and 1.8, from the 2016 California Plumbing Code for adoption into the 2019 California Plumbing Code with modifications as follows:**

## CHAPTER 1
## ADMINISTRATION
## *DIVISION I*
## *CALIFORNIA ADMINISTRATION*

***1.1.0 General.***

***1.1.1 Title.*** *These regulations shall be known as the California Plumbing Code, may be cited as such and will be referred to herein as "this code." The California Plumbing Code is Part 5 of thirteen parts of the official compilation and publication of the adoption, amendment, and repeal of plumbing regulations to the California Code of Regulations, Title 24, also referred to as the California Building Standards Code. This part incorporates by adoption the ~~2015~~ 2018 Uniform Plumbing Code of the International Association of Plumbing and Mechanical Officials with necessary California amendments.*

***1.1.2 Purpose.*** *(No change to existing California amendment)*

***1.1.3 Scope.*** *(No change to existing California amendment)*

***1.1.3.1 Non-State-Regulated Buildings, Structures, and Applications.*** *(No change to existing California amendment)*

***1.1.3.2 State-Regulated Buildings, Structures, and Applications.*** *The model code, state amendments to the model code, and/or state amendments where there are no relevant model code provisions shall apply to the following buildings, structures, and applications regulated by state agencies as specified in Sections 1.2.0 through 1.14.0, except where modified by local ordinance pursuant to Section 1.1.8. When adopted by a state agency, the provisions of this code shall be enforced by the appropriate enforcing agency, but only to the extent of authority granted to such agency by the state Legislature.*

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

***Items 1 through 18*** *(No change to existing California amendment)*

***1.1.4 Appendices.*** *(No change to existing California amendment)*

***1.1.5 Referenced Codes.*** *(No change to existing California amendment)*

***1.1.6 Non-Building Standards, Orders, and Regulations.*** *(No change to existing California amendment)*

***1.1.7 Order of Precedence and Use.***

***1.1.7.1 Differences.*** *(No change to existing California amendment)*

***1.1.7.2 Specific Provisions.*** *(No change to existing California amendment)*

***1.1.7.3 Conflicts.*** *(No change to existing California amendment).*

***~~Exception:~~ 1.1.7.3.1 Detached One- and Two-Family Dwellings.*** *Detached one- and two-family dwellings, ~~efficiency dwelling units,~~ lodging houses, live/work units, townhouses not more than three stories above grade plane in height with a separate means of egress, and their accessory structures, shall not be required to comply with the California Residential Code if constructed in accordance with the California Building Code.*

***1.1.8 City, County, or City and County Amendments, Additions or Deletions.*** *(No change to existing California amendment)*

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***1.1.8.1 Findings and Filings.***

1. *(No change to existing California amendment)*
2. *(No change to existing California amendment)*
3. *Findings prepared by fire protection districts shall be ratified by the ~~local~~ city, county, or city and county and filed with the California Department of Housing and Community Development, Division of Codes and Standards, P.O. Box 1407, Sacramento, CA 95812-1407 or 2020 W. El Camino Avenue, Suite ~~250~~ 200, Sacramento, CA 95833-1829.*

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

***Exception:*** *Plans approved by the Department of Housing and Community Development or a Department-approved design approval agency for factory built housing as defined by Health and Safety Code Section 19971. Approved plans, pursuant to the California Code of Regulations, Title 25, Division 1, Chapter 3, Subchapter 1, Article 3, Section 3048 remain valid for a period of 36 months from the date of plan approval.*

***1.1.10 Availability of Codes.*** *(No change to existing California amendment)*

***1.1.11 Format.*** *(No change to existing California amendment)*

***1.1.12 Validity.*** *(No change to existing California amendment)*

***1.8.0 Department of Housing and Community Development. (HCD)***

***1.8.1 Purpose.*** *The purpose of this code is to establish minimum requirements necessary to protect the health, safety, and general welfare of the occupants and the public by governing the erection, construction, reconstruction, enlargement, conversion, alteration, repair, moving, removal, demolition, sanitation, ventilation and maintenance or use of plumbing equipment or systems.*

***1.8.2 Authority and Abbreviations.***

***1.8.2.1 General.*** *(No change to existing California amendment)*

***1.8.2.1.1 Housing Construction.*** *(No change to existing California amendment)*

***Authority Cited*** *- Health and Safety Code Sections 17040, 17050, 17920.9, 17921, ~~17921.3~~, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17926, 17927, 17928, ~~17959.6~~ 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, ~~18873.2, 18873.3, 18873.4,~~ through 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.*

***References*** *- Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; Civil Code Sections 1101.4, 1101.5 and 1954.201; and Government Code Sections 12955.1 and 12955.1.1.*

***1.8.2.1.2 Housing Accessibility.***

***Application*** *– Covered multifamily dwellings as defined in Chapter 2 of the California Code of Regulations, Title 24, Part 2, also known as the California Building Code including but not limited to lodging houses, dormitories, timeshares, condominiums, shelters for homeless persons, congregate residences, apartments, dwellings, employee housing, factory-built housing, and other types of dwellings containing sleeping accommodations with or without common toilet or cooking facilities.*

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*Sections of this code identified by the abbreviation "HCD 1-AC" require specific accommodations for persons with disabilities, as defined in Chapter 2 of the California Building Code. The application of such provisions shall be in conjunction with other requirements of this code and apply only to newly constructed covered multifamily dwellings as defined in Chapter 2 of the California Building Code.*

*"HCD 1-AC" applications include, but are not limited to, the following:*

1. *All newly-constructed covered multifamily dwellings, as defined in Chapter 2 of the California Building Code.*
2. *New common use areas, as defined in Chapter 2 of the California Building Code serving existing covered multifamily dwellings.*

3. *Additions to existing buildings, where the addition alone meets the definition of covered multifamily dwellings, as defined in Chapter 2 of the California Building Code.*
4. *New ~~C~~common use areas serving new covered multifamily dwellings.*
5. *Where any portion of a building's exterior is preserved, but the interior of the building is removed, including all structural portions of floors and ceilings, the building is considered a new building for determining the application of ~~CBC~~ California Building Code, Chapter 11A.*

*HCD 1-AC building standards generally do not apply to public use areas or public accommodations such as hotels~~,~~ and motels, and public housing. Public use areas, public accommodations, and public housing, as defined in Chapter 2 of the California Building Code, are subject to the Division of the State Architect (DSA-AC) in Chapter 11B and are referenced in Section 1.9.1.*

*Newly constructed covered multifamily dwellings, which can also be defined as public housing, shall be subject to the requirements of Chapter 11A and Chapter 11B.*

***Enforcing Agency**—(No change to existing California amendment)*

***Authority Cited** - Health and Safety Code Sections 17040, 17050, 17920.9, 17921, ~~17921.3~~, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17926, 17927, 17928, ~~17959.6~~ 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1~~,~~ ~~18873.2, 18873.3, 18873.4,~~ through 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.*

***References** - Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; Civil Code Sections 1101.4, 1101.5 and 1954.201; and Government Code Sections 12955.1 and 12955.1.1.*

***1.8.2.1.3 Permanent Buildings in Mobilehome Parks and Special Occupancy Parks.***

***Application** – (No change to existing California amendment)*

***~~Enforcing Agency - Local building department or other local agency responsible for the enforcement of Health and Safety Code Division 13, Part 2.1, commencing with Section 18200 for mobilehome parks and Health and Safety Code, Division 13, Part 2.3, commencing with Section 18860 for special occupancy parks; or the Department of Housing and Community Development.~~***

***Enforcing Agency*** *– The Department of Housing and Community Development, local building department or other local agency that has assumed responsibility for the enforcement of Health and Safety Code, Division 13, Part 2.1, commencing with Section 18200 for mobilehome parks and Health and Safety Code, Division 13, Part 2.3, commencing with Section 18860 for special occupancy parks.*

***Authority Cited*** *- Health and Safety Code Sections 17040, 17050, 17920.9, 17921, ~~17921.3~~, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17926, 17927, 17928, ~~17959.6~~ 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, ~~18873.2, 18873.3, 18873.4,~~ through 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.*

***References*** *- Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; Civil Code Sections 1101.4, 1101.5 and 1954.201; and Government Code Sections 12955.1 and 12955.1.1.*

### *1.8.3 Local Enforcing Agency.*

***1.8.3.1 Duties and Powers.*** *The building department of every city, county, or city and county shall enforce all the provisions of law, this code, and the other rules and regulations promulgated by the Department of Housing and Community Development pertaining to the installation, erection, construction, reconstruction, movement, enlargement, conversion, alteration, repair, removal, demolition, or arrangement of apartments, condominiums, hotels, motels, lodging houses, and dwellings, including accessory buildings, facilities, and uses thereto.*

*The provisions regulating the erection and construction of dwellings and appurtenant structures shall not apply to existing structures as to which construction is commenced or approved prior to the effective date of these regulations. Requirements relating to use, maintenance, and occupancy shall apply to all dwellings and appurtenant structures approved for construction or constructed before or after the effective date of this code.*

*For additional information regarding the use and occupancy of existing buildings and appurtenant structures, see California Code of Regulations, Title 25, Division 1, Chapter 1, Subchapter 1, commencing with Section 1.*

***1.8.3.2 Laws, Rules, and Regulations.*** *(No change to existing California amendment)*

***1.8.3.2.1 State Housing Law.*** *Refer to the State Housing Law, California Health and Safety Code, Division 13, Part 1.5, commencing with Section 17910, and California Code of Regulations, Title 25, Division 1, Chapter 1, Subchapter 1, commencing with Section 1, for the erection, construction, reconstruction, movement, enlargement, conversion, alteration, repair, removal, demolition, or arrangement of apartments, condominiums, hotels, motels, lodging houses, and dwellings, including accessory buildings, facilities, and uses thereto.*

***1.8.3.2.2 Mobilehome Parks Act.*** *(No change to existing California amendment)*

***1.8.3.2.3 Special Occupancy Parks Act.*** *(No change to existing California amendment)*

***1.8.3.2.4 Employee Housing Act.*** *(No change to existing California amendment)*

***1.8.3.2.5 Factory-Built Housing Law.*** *(No change to existing California amendment)*

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***1.8.4 Permits, Fees, Applications, and Inspections.***

***1.8.4.1 Permits.*** *(No change to existing California amendment)*

***1.8.4.2 Fees.*** *(No change to existing California amendment)*

***1.8.4.3 Plan Review and Time Limitations.*** *(No change to existing California amendment)*

***1.8.4.3.1 Retention of Plans.*** *(No change to existing California amendment)*

***1.8.4.4 Inspections.*** *(No change to existing California amendment)*

***1.8.5 Right of Entry for Enforcement.***

***1.8.5.1 General.*** *Subject to other provisions of law, officers and agents of the enforcing agency may enter and inspect public and private properties to secure compliance with the rules and regulations promulgated by the Department of Housing and Community Development. For limitations and additional information regarding enforcement, see the following:*

1. *For applications subject to State Housing Law as referenced in Section 1.8.3.2.1 of this code, refer to Health and Safety Code, Division 13, Part 1.5, commencing with Section 17910, and California Code of Regulations, Title 25, Division 1, Chapter 1, Subchapter 1, commencing with Section 1.*

2. *For applications subject to the Mobilehome Parks Act as referenced in Section 1.8.3.2.2 of this code, refer to Health and Safety Code, Division 13, Part 2.1, commencing with Section 18200, and California Code of Regulations, Title 25, Division 1, Chapter 2, commencing with Section 1000.*

3. *For applications subject to the Special Occupancy Parks Act as referenced in Section 1.8.3.2.3 of this code, refer to Health and Safety Code Division 13, Part 2.3, commencing with Section 18860, and California Code of Regulations, Title 25, Division 1, Chapter 2.2, commencing with Section 2000.*

4. *For applications subject to the Employee Housing Act as referenced in Section 1.8.3.2.4 of this code, refer to Health and Safety Code, Division 13, Part 1, commencing with Section 17000, and California Code of Regulations, Title 25, Division 1, Chapter 1, Subchapter 3, commencing with Section 600.*

5. *For applications subject to the Factory-Built Housing Law as referenced in Section 1.8.3.2.5 of this code, refer to Health and Safety Code, Division 13, Part 6, commencing with Section 19960, and California Code of Regulations, Title 25, Division 1, Chapter 3, Subchapter 1, commencing with Section 3000.*

### *1.8.6 Local Modification by Ordinance or Regulation.*

***1.8.6.1 General.*** *(No change to existing California amendment)*

***1.8.6.2 Findings, Filings, and Rejections of Local Modifications.*** *(No change to existing California amendment)*

### *1.8.7 Alternate Materials, Designs, Tests, and Methods of Construction.*

***1.8.7.1 General.*** *The provisions of this code, as adopted by the Department of Housing and Community Development, are not intended to prevent the use of any alternate material, appliance, installation, device, arrangement, design, or method of construction not specifically prescribed by this code. Consideration and approval of alternates shall comply with Section 1.8.7.2 for local building departments and Section 1.8.7.3 for the Department of Housing and Community Development.*

***1.8.7.2 Local Building Departments.*** *The building department of any city, county, or city and county may approve alternates for use in the erection, construction, reconstruction, movement, enlargement, conversion, alteration, repair, removal, demolition, or arrangement of apartments, condominiums, hotels, motels, lodging houses, dwellings, or accessory structures, except for the following:*

*(1) – (3) (No change to existing California amendment)*

***1.8.7.2.1 Approval of Alternates.*** *(No change to existing California amendment)*

***1.8.7.3 Department of Housing and Community Development.*** *The Department of Housing and Community Development may approve alternates for use in the erection, construction, reconstruction, movement, enlargement, conversion, alteration, repair, removal, or demolition of apartments, condominiums, hotels, motels, lodging houses, dwellings, or accessory structures thereto, and permanent buildings in mobilehome parks and special occupancy parks. The consideration and approval of alternates shall comply with the following:*

*(1) – (2) (No change to existing California amendment)*

***1.8.8 Appeals Board.***

***1.8.8.1 General.*** *(No change to existing California amendment)*

***1.8.8.2 Definitions.*** *The following terms shall for the purposes of this section have the meaning shown.*

***Housing Appeals Board.*** *The board or agency of a city, county, or city and county which is authorized by the governing body of the city, county, or city and county to hear appeals regarding the requirements of the city, county, or city and county relating to the use, maintenance, and change of occupancy of buildings and structures, including requirements governing alteration, additions, repair, demolition, and moving. In any area in which there is no such board or agency, "~~h~~Housing appeals board" means the local appeals board having jurisdiction over the area.*

***Local Appeals Board.*** *The board or agency of a city, county, or city and county which is authorized by the governing body of the city, county, or city and county to hear appeals regarding the building requirements of the city, county, or city and county. In any area in which there is no such board or agency, "lLocal appeals board" means the governing body of the city, county, or city and county having jurisdiction over the area.*

***1.8.8.3 Appeals.*** *(No change to existing California amendment)*

***1.8.9 Unsafe Buildings or Structures.***

***1.8.9.1 Authority to Enforce.*** *Subject to other provisions of law, the administration, enforcement, actions, proceedings, abatement, violations, and penalties for unsafe buildings and structures are contained in the following statutes and regulations:*

*(1) For applications subject to the State Housing Law as referenced in Section 1.8.3.2.1 of this code, refer to Health and Safety Code, Division 13, Part 1.5, commencing with Section 17910 and California Code of Regulations, Title 25, Division 1, Chapter 1, Subchapter 1, commencing with Section 1.*
*(2) – (5) (No change to existing California amendment)*

***1.8.9.2 Actions and Proceedings.*** *Subject to other provisions of law, punishments, penalties, and fines for violations of building standards are contained in the following statutes and regulations:*

*(1) – (2) (No change to existing California amendment)*
*(3) For applications subject to the Special Occupancy Parks Act as referenced in Section 1.8.3.2.3. of this code, refer to Health and Safety Code, Division 13, Part 2.3, commencing with Section 18860 and California Code of Regulations, Title 25, Division 1, Chapter 2.2, commencing with Section 2000.*
*(4) – (5) (No change to existing California amendment)*

***1.8.10 Other Building Regulations.***

***1.8.10.1 Existing Structures.*** *(No change to existing California amendment)*

***1.8.10.2 Moved Structures.*** *(No change to existing California amendment)*

***NOTE:***
***Authority Cited:*** *Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17926, 17927, 17928, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1 through 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.*

***Reference:*** *Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; Civil Code Sections 1101.4, 1101.5 and 1954.201; and Government Code Sections 12955.1 and 12955.1.1.*

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**2. HCD proposes to adopt Chapter 1, Division II, Section 104.2 (Items 1 and 2) only, from the 2018 Uniform Plumbing Code into the 2019 California Plumbing Code without amendments:**

***DIVISION II***
***ADMINISTRATION***

**104.2 Exempt Work.** (No change to the model code text)

**NOTE:**
Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17926, 17927, 17928, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1 through 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; Civil Code Sections 1101.4, 1101.5 and 1954.201; and Government Code Sections 12955.1 and 12955.1.1.

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3. **HCD proposes to adopt Chapter 2 from the 2018 Uniform Plumbing Code into the 2019 California Plumbing Code with new and existing amendments as follows:**

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## CHAPTER 2
## DEFINITIONS

**203.0** **-A-**

**Alternate Water Source.** (No change to existing California amendment)

**Approved.** (No change to existing California amendment)

**Approved Testing Agency.** (No change to existing California amendment)

**Authority Having Jurisdiction.** (No change to existing California amendment)

**204.0** **-B-**

**Building.** (No change to existing California amendment)

**205.0** **-C-**

***Clothes Washer System (HCD 1).*** *(No change to existing California amendment)*

***Complex System (HCD 1).*** *(No change to existing California amendment)*

***Construction Site.*** *(No change to existing California amendment)*

***Covered Multifamily Dwellings (HCD 1-AC).*** *(No change to existing California amendment)*

**206.0** **-D-**

***Department (HCD 1, HCD 2 and HCD 1-AC).*** *(No change to existing California amendment)*

**Department Having Jurisdiction.** (No change to existing California amendment)

***Disinfected Tertiary Recycled Water.*** *(No change to existing California amendment)*

***Disposal Field (HCD 1).*** *(No change to existing California amendment)*

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**207.0** **-E-**

***Enforcing Agency (HCD 1, HCD 2 and HCD 1-AC).*** *(No change to existing California amendment)*

**209.0** **-G-**

**Gray Water.** (No change to existing non-adoption)

***Graywater (HCD 1).*** *(No change to existing California amendment)*

***Gray Water System (HCD 1).*** *(No change to existing California amendment)*

**211.0** **-I-**

***Irrigation Field (HCD 1).*** *(No change to existing California amendment)*

**214.0** **-L-**

**Labeled.** (No change to existing California amendment)

***Lavatory (HCD 1 & HCD 2).*** *(No change to existing California amendment)*

***Limited-Density Owner-Built Rural Dwelling (HCD 1).*** *(No change to existing California amendment)*

***Listed (HCD 1 & HCD 2).*** *(No change to existing California amendment)*

**Listing Agency.** (No change to existing California amendment)

***Low VOC Cement (HCD 1 & HCD 2).*** *(No change to existing California amendment)*

***Low VOC One-Step Cement (HCD 1 & HCD 2).*** *(No change to existing California amendment)*

***Low VOC Primer (HCD 1 & HCD 2).*** *(No change to existing California amendment)*

**215.0** **-M-**

**Mulch Basin.** (No change to existing non-adoption)

***Mulch Basin (HCD 1).*** *(No change to existing California amendment)*

**216.0** **-N-**

***Nonwater Supplied Urinal (HCD 1).*** *(No change to existing California amendment)*

**Nuisance.** (No change to model code text)

***(HCD 1 & HCD 2)*** *"Nuisance" shall mean any nuisance as defined in Health and Safety Code Section 17920~~(k)~~ (l).*

***Notes:***

*(1) – (2) (No change to existing California amendments)*

**217.0** **-O-**

**On-Site Treated Nonpotable Water**. (No change to existing non-adoption).

***On-Site Treated Nonpotable Water (HCD 1).*** *(No change to existing California amendment)*

**220.0** **-R-**

**Rainwater.** (No change to existing non-adoption)

***Rainwater (HCD 1).*** *(No change to existing California amendment)*

**Rainwater Catchment System**. (No change to existing non-adoption)

***Rainwater Catchment System (HCD 1).*** *(No change to existing California amendment)*

***Receiving Landscape (HCD 1).*** *(No change to existing California amendment)*

**Reclaimed Water.** (No change to existing non-adoption)

***Reclaimed (Recycled) Water. (HCD 1)*** *(No change to existing California amendment)*

***Recycled Water Supply System.*** *(No change to existing California amendment)*

**221.0** **-S-**

***Simple System (HCD 1).*** *(No change to existing California amendment)*

**Single-Family Dwelling.** (No change to existing non-adoption)

**222.0** **-T-**

***Testing Agency (HCD 1).*** *(No change to existing California amendment)*

***Treated Gray Water (HCD 1).*** *(No change to existing California amendment)*

**223.0** **-U-**

***UPC (HCD 1).*** *(No change to existing California amendment)*

~~***Urinal, Hybrid. (HCD 1)*** *A urinal that conveys waste into the drainage system without the use of water for flushing and automatically performs a drain-cleansing action after a predetermined amount of time.*~~

**225.0** **-W-**

***Water Closet (HCD 1).*** *(No change to existing California amendment)*

**NOTE:**
Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17926, 17927, 17928, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1 through 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; Civil Code Sections 1101.4, 1101.5 and 1954.201; and Government Code Sections 12955.1 and 12955.1.1.

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4. **HCD proposes to adopt Chapter 3, (except Sections 301.3.1, 301.3.1.1 and 301.3.1.2), from the 2018 Uniform Plumbing Code into the 2019 California Plumbing Code, with new and existing amendments as follows:**

## CHAPTER 3
## GENERAL REGULATIONS

**301.0 General.**

**301.3 Alternate Materials and Methods of Construction Equivalency.** (No change to existing California amendment)

**301.4.1 Coastal High Hazard Areas.** (No change to existing California amendment)

***301.6 One- and Two-Family Dwellings. (HCD 1)*** *(No change to existing California amendment)*

**303.0 Disposal of Liquid Waste.**

**303.1 General.** (No change to existing California amendment)

**304.0 Connections to Plumbing System Required.**

**304.1 General.** (No change to existing California amendment)

**309.0 Workmanship.**

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**309.5 Sound Transmission.** Plumbing piping systems shall be designed and installed in conformance with sound limitations as required in the ~~building code~~ *California Building Code*.

**312.0 Protection of Piping, Materials, and Structures.**

**312.2 Installation.** (No change to existing California amendment)

**312.7 Fire-Resistant Construction** (No change to existing California amendment)

**312.11 Structural Members.** (No change to existing California amendment)

**NOTE:**
Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17926, 17927, 17928, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1 through 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; Civil Code Sections 1101.4, 1101.5 and 1954.201; and Government Code Sections 12955.1 and 12955.1.1.

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**5. HCD proposes to adopt Chapter 4 (except Sections 422.2, 422.4 and 422.5) from the 2018 Uniform Plumbing Code into the 2019 California Plumbing Code with new and existing amendments as follows:**

## CHAPTER 4
## PLUMBING FIXTURES AND FIXTURE FITTINGS

**401.0 General.**

***401.3 Water-Conserving Fixtures and Fittings. (HCD 1)*** ~~*Residential buildings undergoing permitted alterations, additions or improvements shall replace noncompliant plumbing fixtures with water-conserving plumbing fixtures. Plumbing fixture replacement is required prior to issuance of a certificate of final completion, certificate of occupancy or final permit approval by the local building department. See Civil Code Section 1101.3, et seq. for the definition of a noncompliant plumbing fixture, types of buildings affected and other subsequent enactment dates.*~~

*All noncompliant plumbing fixtures in any residential real property shall be replaced with water-conserving plumbing fixtures. Plumbing fixture replacement is required prior to issuance of a certificate of final completion, certificate of occupancy, or final permit approval by the local building department. See Civil Code Section 1101.1, et seq., for the definition of a noncompliant plumbing fixture, types of residential buildings affected and other important enactment dates.*

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**403.0 Accessible Plumbing Facilities.**

**403.1 General.** (No change to existing California amendment)

**403.2 Fixtures and Fixture Fittings for Persons with Disabilities.** (No change to existing California amendment)

**403.3 Exposed Pipes and Surfaces.** Water supply and drain pipes under accessible lavatories and sinks shall be insulated or otherwise be configured to protect against contact. Protectors, insulators, or both shall comply with ASME A112.18.9 or ASTM C1822.

***(HCD 1-AC)*** *Specific requirements regarding accommodations for persons with disabilities are contained in Chapter 11A of the California Building Code.*

**407.0 Lavatories.**

**407.2 Water Consumption.** The maximum water flow rate of faucets shall comply with Section*s* 407.2.1 ~~and Section 407.2.2~~ *through 407.2.4.*

**407.2.1 ~~Maximum Flow Rate~~ *Public Lavatory Faucets*.** The maximum flow rate for public lavatory faucets shall not exceed 0.5 gpm at 60 psi (1.9 L/m at 414 kPa) ~~and 2.2 gpm at 60 psi (8.3 L/m at 414 kPa) for private lavatory faucets~~.

***~~407.2.1.1~~ 407.2.2 Residential Lavatory Faucets.*** *(No change to existing California amendment)*

***~~407.2.1.2~~ 407.2.3 Lavatory Faucets in Common and Public Use Areas.*** *(No change to existing California amendment)*

***~~407.2.2~~ 407.2.4*** **Metering Faucets.** Metered faucets shall deliver a maximum of ~~0.25~~ *0.2* gallons (~~1.0~~ *0.76* L) per metering cycle.

**408.0 Showers.**

**408.2 Water Consumption.** Showerheads shall have a maximum flow rate of not more than ~~2.5~~ *1.8* gpm at 80 psi (~~9.5~~ *6.81* L/m at 552 kPa).

***(HCD 1)*** *Residential Sshowerheads shall ~~have a maximum flow rate of 1.8 gallons (6.81 L) per minute measured at 80 psi and must~~ comply with Division 4.3 of the California Green Building Standards Code (CALGreen).*

**408.5 Finished Curb or Threshold.** Where a shower receptor has a finished dam, curb, or threshold, it shall be not less than 1 inch (25.4 mm) lower than the sides and back of such receptor. In no case, shall a dam or threshold be less than 2 inches (51 mm) or exceeding 9 inches (229 mm) in depth where measured from the top of the dam or threshold to the top of the drain. Each such receptor shall be provided with an integral nailing flange to be located where the receptor meets the vertical surface of the finished interior of the shower compartment. The flange shall be watertight and extend vertically not less than 1 inch (25.4 mm) above the top of the sides of the receptor. The finished floor of the receptor shall slope uniformly from the sides towards the drain not less than 1/8 inch per foot (10.4 mm/m), nor more than 1/2 inch per foot (41.6 mm/m).

Thresholds shall be of sufficient width to accommodate a minimum 22 inch (559 mm) door. Shower doors shall open so as to maintain not less than a 22 inch (559 mm) unobstructed opening for egress. The immediate adjoining space to showers without thresholds shall be considered a wet location and shall comply with the requirements of the ~~building, residential, and electrical codes~~ *California Building Code, California Residential Code, and California Electrical Codes.*

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**Exceptions:**

(1) Showers in accordance with Section 403.2 ~~*in Chapter 11A of the California Building Code. (HCD 1-AC) Specific requirements regarding accommodations for persons with disabilities are contained in Chapter 11A of the California Building Code.*~~

(2) A cast-iron shower receptor flange shall be not less than 0.3 of an inch (7.62 mm) in height.

(3) For flanges not used as a means of securing, the sealing flange shall be not less than 0.3 of an inch (7.62 mm) in height.

**408.6 Shower Compartments.** Shower compartments, regardless of shape, shall have a minimum finished interior of 1024 square inches (0.6606 $m^2$) and shall also be capable of encompassing a 30 inch (762 mm) circle. The minimum required area and dimensions shall be measured at a height equal to the top of the threshold and a point tangent to its centerline. The area and dimensions shall be maintained to a point of not less than 70 inches (1778 mm) above the shower drain outlet with no protrusions other than the fixture valve or valves, showerheads, soap dishes, shelves, and safety grab bars, or rails. Fold-down seats in accessible shower stalls shall be permitted to protrude into the 30 inch (762 mm) circle.

**Exceptions:**

(1) Showers that are designed to be in accordance with ~~ICC A117.1~~ *Chapter 11A of the California Building Code.*

(2) The minimum required area and dimension shall not apply for a shower receptor having overall dimensions of not less than 30 inches (762 mm) in width and 60 inches (1524 mm) in length.

~~(3) **(HCD 1-AC)** *Specific requirements regarding accommodations for persons with disabilities are contained in Chapter 11A of the California Building Code.*~~

**411.0 Water Closets.**

**411.2 Water Consumption.** (No change to existing California amendment)

**411.2.2 Flushometer Valve Activated Water Closets.** Flushometer valve activated water closets shall have a maximum flush volume of ~~1.6~~ *1.28* gallons (~~6.0~~ *4.8* Lpf) of water per flush.

~~*411.2.2*~~ ***411.2.3 Performance. [HCD 1 & HCD 2]*** *Water closets installed in residential occupancies shall meet or exceed the minimum performance criteria developed for certification of high-efficiency toilets under the WaterSense program sponsored by the U.S. Environmental Protection Agency (EPA).*

**412.0 Urinals.**

**412.1 Application.** (No change to existing California amendment)

**412.1.1 (Formerly 412.1.3) Nonwater Urinals.** (No change to existing California amendment)

**415.0 Drinking Fountains.**

**415.1 Application.** (No change to existing California amendment)

**420.0 Sinks.**

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***420.2.2 Kitchen Faucets. (HCD 1)*** *(No change to existing California amendment)*

**422.0 Minimum Number of Required Fixtures.**

**422.1 Fixture Count.** (No change to existing California amendment)

**TABLE 422.1**
**MINIMUM PLUMBING FACILITIES[1]**

(No change to existing California amendment)

**NOTE:**
Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17926, 17927, 17928, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1 through 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; Civil Code Sections 1101.4, 1101.5 and 1954.201; and Government Code Sections 12955.1 and 12955.1.1.

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6. **HCD proposes to adopt Chapter 5 from the 2018 Uniform Plumbing Code into the 2019 California Plumbing Code with existing amendments as follows:**

## CHAPTER 5
## WATER HEATERS

**507.0 Appliance and Equipment Installation Requirements.**

**507.2 Seismic Provisions.** (No change to existing California amendment)

**NOTE:**
Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17926, 17927, 17928, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1 through 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; Civil Code Sections 1101.4, 1101.5 and 1954.201; and Government Code Sections 12955.1 and 12955.1.1.

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7. **HCD proposes to adopt Chapter 6 (except Section 609.10) from the 2018 Uniform Plumbing Code into the 2019 California Plumbing Code with new and existing amendments as follows:**

## CHAPTER 6
## WATER SUPPLY AND DISTRIBUTION

**601.0 General.**

**601.2 Hot and Cold Water Required.** (No change to existing California amendment)

***601.2.1 Submeters. (HCD 1)*** *Each water purveyor that sells, leases, rents, furnishes, or delivers water service to a newly constructed multiunit residential structure or residential portion of newly constructed mixed-use residential and commercial structure for which an application for a water connection(s) is submitted after January 1, 2018, shall require a measurement of the quantity of water supplied*

*to each individual residential dwelling unit as a condition of new water service. The measurement may be by individual water meters or submeters. See California Water Code Section 517 for definitions of "multiunit residential structure," "mixed-use residential and commercial structure," and "submeter;" and Section 537 et seq. for additional details and a list of exempted structures. See also the California Civil Code, Title 5, Part 4, Division 4, Chapter 2.5 (commencing with Section 1954.201).*

**601.3.2 Color and Information.** (No change to existing California amendment)

***FIGURE 601***
***INTERNATIONAL SYMBOL***

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**601.3.3 Alternate Water Sources.** Alternate water source systems shall have a purple (Pantone color No. 512, 522C, or equivalent) background with uppercase lettering and shall be field or factory marked as follows:

(1) (No change to model code text)
(2) Reclaimed (recycled) water systems *for outdoor applications* shall be marked in accordance with this section with the words: "CAUTION: NONPOTABLE RECLAIMED (RECYCLED) WATER, DO NOT DRINK" in black letters.
(3) (No change to model code text)
(4) (No change to model code text)

**603.0 Cross-Connection Control.**

**603.5.11 Nonpotable Water Piping.** (No change to existing California amendment)

**604.0 Materials.**

***604.1.1 Local Authority to Approve CPVC Pipe Within Residential Buildings Under Specified Conditions. (HCD 1 & HCD 2)*** *The local responsible building official of any city, county, or city and county, shall authorize by permit the use of CPVC for hot and cold water distribution systems within the interior of residential buildings provided all of the following conditions are satisfied:*

*(a) - (g) (No change to existing California amendments)*

*(h)* ***Special Requirements for CPVC Installation within Residential Structures.*** ~~*(HCD 1)*~~ *In addition to the other requirements in the California Plumbing Code* ~~*and this Appendix for the installation of CPVC Solvent Cement Hot and Cold Water Distribution Systems*~~*, all installations of CPVC pipe within residential structures shall meet the following:*

~~*(i)*~~ *(i)* ***Flushing Procedures.*** ~~*(HCD 1)*~~ *All installations of CPVC pipe within residential structures shall be flushed twice over a period of at least one (1) week. The pipe system shall be first flushed for at least 10 minutes and then filled and allowed to stand for no less than 1 week, after which all the branches of the pipe system must be flushed long enough to fully empty the contained volume. At the time of the fill, each fixture shall have a removable tag applied stating:*

*"This new plumbing system was first filled on (date) by (name). The California Department of Housing and Community Development requires that the system be flushed after standing at least one week after the fill date specified above. If the system is used earlier than one week after the fill date, the water must be allowed to run for at least two minutes prior to use for human consumption. This tag may not be removed prior to flushing, except by the homeowner."*

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~~*(i)*~~*(ii)* ***Worker Safety Measures.*** ~~*(HCD 1)*~~ *Mechanical ventilation sufficient to maintain exposures below the relevant exposure limits established by state regulation shall be provided in enclosed spaces. This ventilation shall be directed at the breathing zone of the worker installing the pipe. Where mechanical ventilation is not practical, respirators, suitable for organic vapors, shall be used. For the purpose of this subdivision, an enclosed space is defined as:*

*(1) A space less than 100 square feet of floor area under a ceiling with a height of 10 feet or less, and which does not have openings (consisting of doors, windows, or unfinished walls) on at least two sides;*

*(2) Crawl spaces having a height of less than three feet;*

*(3) Enclosed attics that have a roof and ceiling; or*

*(4) Trenches having a depth greater than 24 inches.*

*Installers of CPVC pipe within residential structures shall use non-latex thin gauge (4 millimeters) nitrile gloves, or other gloves providing an equivalent or better degree of protection during the installation of the CPVC plumbing system. Gloves shall be provided to all workers by the contractor, or plumbing subcontractor, and shall be replaced upon contamination by cements.*

***604.1.2 PEX.*** *(HCD 1 & HCD 2) (No change to existing California amendment)*

**TABLE 604.1**
**MATERIALS FOR BUILDING SUPPLY AND WATER DISTRIBUTION PIPING AND FITTINGS**

(No Changes to Table)

**Notes:**

[1-2] (No change to model code text)

[23]. *When PEX tubing is placed in soil and is used in potable water systems intended to supply drinking water to fixtures or appliances, the tubing or piping shall be sleeved with a material approved for potable water use in soil or other material that is impermeable to solvents or petroleum products.*

[34]. *PEX tubing shall meet or exceed the requirements of ASTM F876-~~2013a~~ 2015a or an equivalent or more stringent standard when used in continuously recirculating hot water systems and the PEX tubing is exposed to the hot water 100% of the time.*

[45]. *The use of PEX-AL-PEX in potable water supply systems is not adopted.*

**604.13 Water Heater Connectors.** (No change to existing California amendment)

**605.0 Joints and Connections.**

**605.2.2 Solvent Cement Joints.** (No change to existing California amendment)

**605.10 PEX-AL-PEX Plastic Tubing and Joints.** (No change to existing California amendment)

**605.12.2 Solvent Cement Joints.** (No change to existing California amendment)

**605.15 Dielectric Unions.** (No change to existing California amendment)

**607.0 Potable Water Supply Tanks.**

**607.1 General.** (No change to existing California amendment)

**609.0 Installation, Testing, Unions, and Location.**

**609.10 Water Hammer.** ***(Not adopted by HCD)***

**610.0 Size of Potable Water Piping.**

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**TABLE 610.3**
**WATER SUPPLY FIXTURE UNITS (WSFU) AND**
**MINIMUM FIXTURE BRANCH PIPE SIZES[3]**

| APPLIANCES, APPURTENANCES OR FIXTURES[2] | MINIMUM FIXTURE BRANCH PIPE SIZE[1,4] (inches) | PRIVATE | PUBLIC | ASSEMBLY[6] |
|---|---|---|---|---|
| ~~Mobile Home~~ *Mobilehome or Manufactured Home*, each (minimum)[9] | — | ~~12.0~~6.0 | — | — |
| ~~*Urinal, Hybrid (2016 CPC)*~~ | ~~½~~ | ~~1.0~~ | ~~1.0~~ | ~~1.0~~ |

For SI units: 1 inch = 25 mm

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**Notes:**
[9] *(No change to existing California amendment)*

**NOTE:**
Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17926, 17927, 17928, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1 through 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; Civil Code Sections 1101.4, 1101.5 and 1954.201; and Government Code Sections 12955.1 and 12955.1.1.

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8. **HCD proposes to adopt Chapter 7 from the 2018 Uniform Plumbing Code into the 2019 California Plumbing Code with new and existing amendments as follows:**

## CHAPTER 7
## SANITARY DRAINAGE

**Part I – Drainage Systems.**

**701.0 General.**

**701.2 Drainage Piping**. Materials for drainage piping shall be in accordance with one of the referenced standards in Table 701.2 except that:

(1) (No change to model code text)

(2) ABS and PVC DWV piping installations shall be installed in accordance with applicable standards referenced in Table 701.2 and ~~Chapter 14 "Firestop Protection."~~, ~~*this code*~~, *the firestop protection requirements in the California Building Code*. Except for individual single-family dwelling units, materials exposed within ducts or plenums shall have a flame-spread index of not more than 25 and a smoke-developed index of not more than 50, where tested in accordance with ASTM E84 or UL 723. These tests shall comply with all requirements of the standards to include the sample size, both for width and length. Plastic pipe shall not be tested filled with water.

*(a)* ***(HCD 1 & HCD 2)*** *ABS and PVC installations are limited to not more than two stories of areas of residential accommodation.*

(3) - (6) (No change to model code text)

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**702.0 Fixture Unit Equivalents.**

**TABLE 702.1**
**DRAINAGE FIXTURE UNIT VALUES (DFU)**

| PLUMBING APPLIANCES, APPURTENANCES, OR FIXTURES | MINIMUM SIZE TRAP AND TRAP ARM[7] (INCHES) | PRIVATE | PUBLIC | ASSEMBLY[8] |
|---|---|---|---|---|
| ~~Mobile Home~~ *Mobilehome or Manufactured Home*, trap[9] | 3 | ~~12.0~~ *6.0* | — | — |
| ~~*Urinal, Hybrid*~~ (2016 CPC) | ~~*2*~~ | ~~*1.0*~~ | ~~*1.0*~~ | ~~*1.0*~~ |

*For SI units: 1 inch = 25 mm*

***Notes:***

*[9] (No change to existing California amendment)*

**705.0 Joints and Connections.**

**705.1.2 Solvent Cement Joints.** (No change to existing California amendment)

**705.6.2 (Formerly 705.5.2) Solvent Cement Joints.** (No change to existing California amendment)

**705.9.4 (Formerly 705.8.4) Transition Joint.** (No change to existing California amendment)

**710.0 Drainage of Fixtures Located Below the Next Upstream Manhole or Below the Main Sewer Level.**

**710.3 Sewage Ejector and Pumps.** A sewage ejector or sewage pump receiving the discharge of water closets or urinals:

(1) – (3) (No change to model code text)

~~*710.3.1*~~ ***(HCD 1 & HCD 2)*** *The minimum size of any pump or any discharge pipe from a sump having a water closet connected thereto shall be not less than 2 inches (50 mm).*

**Part II – Building Sewers.**

**713.0 Sewer Required.**

**713.4 Public Sewer Availability.** (No change to existing California amendment)

**NOTE:**
Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17926, 17927, 17928, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1 through 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; Civil Code Sections 1101.4, 1101.5 and 1954.201; and Government Code Sections 12955.1 and 12955.1.1.

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**9. <u>HCD proposes to adopt Chapter 8 from the 2018 Uniform Plumbing Code into the 2019 California Plumbing Code without amendment</u>:**

**CHAPTER 8**
**INDIRECT WASTES**

**NOTE:**
Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17926, 17927, 17928, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1 through 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; Civil Code Sections 1101.4, 1101.5 and 1954.201; and Government Code Sections 12955.1 and 12955.1.1.

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**10. <u>HCD proposes to adopt Chapter 9 from the 2018 Uniform Plumbing Code into the 2019 California Plumbing Code with new and existing amendments as follows</u>:**

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## CHAPTER 9
## VENTS

**903.0 Materials.**

**903.1 Applicable Standards.** Vent pipe and fittings shall comply with the applicable standards referenced in Table 701.2, except that:

(1) No galvanized steel or 304 stainless steel pipe shall be installed underground and shall be not less than 6 inches (152 mm) aboveground.

(2) ABS and PVC DWV piping installations shall be in accordance with ~~Chapter 14 "Firestop Protection." *this code*, *and*~~ *the firestop protection requirements in the California Building Code*. Except for individual single-family dwelling units, materials exposed within ducts or plenums shall have a flame-spread index of not more than 25 and a smoke-developed index of not more than 50 where tested in accordance with ASTM E84 or UL 723. These tests shall comply with all requirements of the standards to include the sample size, both for width and length. Plastic pipe shall not be tested filled with water.

***903.1.1 (HCD 1 & HCD 2)*** *(No change to existing California amendment)*

***903.1.2 (HCD 1)*** *(No change to existing California amendment)*

**NOTE:**
Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17926, 17927, 17928, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1 through 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; Civil Code Sections 1101.4, 1101.5 and 1954.201; and Government Code Sections 12955.1 and 12955.1.1.

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11. **HCD proposes to adopt Chapter 10 from the 2018 Uniform Plumbing Code into the 2019 California Plumbing Code with new and existing amendments as follows:**

## CHAPTER 10
## TRAPS AND INTERCEPTORS

**1003.0 Traps — Described.**

**1003.1 General Requirements.** Each trap, except for traps within an interceptor or similar device shall be self-cleaning. Traps for bathtubs, showers, lavatories, sinks, laundry tubs, floor drains, urinals, drinking fountains, dental units, and similar fixtures shall be of standard design, weight and shall be of ABS, cast-brass, cast-iron, lead, PP, PVC, or other approved material. An exposed and readily accessible drawn-copper alloy tubing trap, not less than 17 B & S Gauge (0.045 inch) (1.143 mm), shall be permitted to be used on fixtures discharging domestic sewage.

**Exceptions:**

1. (No change to model code text)
2. ***(HCD 1 & HCD 2)*** *Non-water supplied urinals conforming to ASME A112.19.19-~~2006~~2016, Standard for Vitreous China Nonwater Urinals, or reference standards in Table 1701.1 for non-vitreous ceramic or plastic urinal fixtures.*

**NOTE:**
Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17926, 17927, 17928, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1 through 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; Civil Code Sections 1101.4, 1101.5 and 1954.201; and Government Code Sections 12955.1 and 12955.1.1.

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**12. HCD proposes to adopt Chapter 11 from the 2018 Uniform Plumbing Code into the 2019 California Plumbing Code with new and existing amendments as follows:**

## CHAPTER 11
## STORM DRAINAGE

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**1101.4 Material Uses.** Pipe, tube, and fittings conveying rainwater shall be of such materials and design as to perform their intended function to the satisfaction of the Authority Having Jurisdiction. Conductors within a vent or shaft shall be of cast-iron, galvanized steel, wrought iron, copper, copper alloy, lead, Schedule 40 ABS DWV, Schedule 40 PVC DWV, stainless steel 304 or 316L (stainless steel 304 pipe and fittings shall not be installed underground and shall be kept not less than 6 inches (152 mm) aboveground), or other approved materials, and changes in direction shall be in accordance with the requirements of Section 706.0. ABS and PVC DWV piping installations shall be installed in accordance with applicable standards referenced in Table 1701.1 and ~~Chapter 14 "Firestop Protection."~~ ~~*this code,*~~ *the firestop protection requirements in the California Building Code.* Except for individual single-family dwelling units, materials exposed within ducts or plenums shall have a flame-spread index of not more than 25 and a smoke-developed index of not more than 50, where tested in accordance with ASTM E84 or UL 723. These tests shall comply with all requirements of the standards to include the sample size, both for width and length. Plastic pipe shall not be tested filled with water.

***(HCD 1 & HCD 2)*** *ABS or PVC installations are limited to not more than two stories of areas of residential accommodation.*

***1101.4.2.1 (HCD 1)*** *(No change to existing California amendment)*

**1101.6 Subsoil Drains.** (No change to existing California amendment)

**NOTE:**
Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17926, 17927, 17928, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1 through 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; Civil Code Sections 1101.4, 1101.5 and 1954.201; and Government Code Sections 12955.1 and 12955.1.1.

13. **HCD proposes to adopt Chapter 12 from the 2018 Uniform Plumbing Code into the 2019 California Plumbing Code without amendments.**

## CHAPTER 12
## FUEL GAS PIPING

**NOTE:**
Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17926, 17927, 17928, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1 through 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; Civil Code Sections 1101.4, 1101.5 and 1954.201; and Government Code Sections 12955.1 and 12955.1.1.

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14. **HCD proposes to NOT adopt Chapter 13 from the 2018 Uniform Plumbing Code.**

## CHAPTER 13
## HEALTH CARE FACILITIES AND MEDICAL GAS AND MEDICAL VACUUM SYSTEMS

**NOTE:**
Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17926, 17927, 17928, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1 through 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; Civil Code Sections 1101.4, 1101.5 and 1954.201; and Government Code Sections 12955.1 and 12955.1.1.

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15. **HCD proposes to NOT adopt Chapter 14 from the 2018 Uniform Plumbing Code.**

## CHAPTER 14
## FIRESTOP PROTECTION

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**NOTE:**
Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17926, 17927, 17928, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1 through 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; Civil Code Sections 1101.4, 1101.5 and 1954.201; and Government Code Sections 12955.1 and 12955.1.1.

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16. **HCD proposes to adopt Chapter 15 from the 2018 Uniform Plumbing Code into the 2019 California Plumbing Code with new and existing amendments as follows. HCD proposes to not adopt model code Sections 1501.5.1; 1501.5.2, 1502.3.4; 1503.9.3 - 1503.9.7; 1504.5, 1504.5.1, 1504.5.2, 1504.5.3, 1504.5.4, 1504.5.5, 1504.5.6, 1504.5.7, 1504.6, 1504.6.1, 1504.6.2, 1504.6.3, 1504.6.4, 1504.7, 1504.7.1, 1504.7.2, 1504.7.3, 1504.9.1, 1505.0 – 1505.13; and Table 1501.5.**

## CHAPTER 15
## ALTERNATE WATER SOURCES FOR NONPOTABLE APPLICATIONS

***2016 CPC ~~Intent~~***
~~*The provisions of this chapter are intended to:*~~

1. ~~*Conserve potable water by facilitating greater reuse of laundry, shower, lavatory and similar sources of discharge, or by the use of alternate water sources, where available.*~~

2. ~~*Reduce the number of non-compliant gray water systems by making legal compliance easily achievable.*~~

3. ~~*Provide guidance for avoiding potentially unhealthful conditions.*~~

4. ~~*Provide an alternative way to relieve stress on a private sewage disposal system by diverting the gray water.*~~

**1501.0 General.**

**1501.1 Applicability.** (No change to existing California amendment)

**1501.1.1 Allowable Use of Alternate Water.** (No change to existing California amendment)

***1501.1.1.1 Outdoor Recycled Water Supply Systems. (HCD 1)*** *(No change to existing California amendment)*

***1501.1.1.2. Technical Requirements for Outdoor Recycled Water Supply Systems.*** *(No change to existing California amendment)*

~~***(2016 CPC)* 1501.2 System Design. (HCD 1)** Alternate water source systems shall be designed in accordance with this chapter by a registered design professional or who demonstrates competency to design the alternate water source system as required by the Authority Having Jurisdiction. Components, piping, and fittings used in an alternate water source system shall be listed.~~

~~**Exceptions: (HCD 1)**~~

~~(1) A registered design professional is not required to design gray water systems having a maximum discharge capacity of 250 gallons per day (gal/d) (0.011 L/s) for single family and multi-family dwellings.~~
~~(2) A registered design professional is not required to design an on-site treated nonpotable water system for single family dwellings having a maximum discharge capacity of 250 gal/d (0.011 L/s).~~
~~*(3) Irrigation design plans shall meet the requirements of the California Code of Regulations, Title 23, Division 2, Chapter 2.7, Model Water Efficient Landscape Ordinance*.~~

**1501.2 System Design.** Alternate water source systems shall be designed in accordance with this chapter by a registered design professional or licensed person who demonstrates competency to design the alternate water source system as required by the Authority Having Jurisdiction. Components, piping, and fittings used in an alternate water source system shall be listed.

*(HCD 1) Irrigation design plans shall meet the requirements of the California Code of Regulations, Title 23, Division 2, Chapter 2.7, Model Water Efficient Landscape Ordinance.*

**Exceptions:**

(1) (No change to model code text)

(2) (No change to model code text)

**1501.3 Permit.** It shall be unlawful for a person to construct, install, alter, or cause to be constructed, installed, or altered an alternate water source system in a building or on *its* premises without first obtaining a permit to do such work ~~*from the Authority Having Jurisdiction*~~ from the Authority Having Jurisdiction.

*No changes or connections shall be made to either the alternate water source system or the potable water system within a site containing an alternate water source system without approval by the Authority Having Jurisdiction.*

***Exception: (HCD 1)** A construction permit shall not be required for a clothes washer system meeting the requirements of Section ~~1502.1.1~~1503.1.1.*

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## TABLE 1501.5
## MINIMUM ALTERNATE WATER SOURCE TESTING, INSPECTION, AND MAINTENANCE FREQUENCY

**(Not adopted by HCD)**

**1501.5 Maintenance and Inspection.** (No change to existing California amendment)

**1501.5.1 Frequency.** (No change to existing non-adoption)

**1501.5.2 Maintenance Log.** (No change to existing non-adoption)

***1501.5.1*** ~~**1501.5.3**~~ **Maintenance Responsibility.** (No change to the model code text)

**1501.6 Operation and Maintenance Manual.** An operation and maintenance manual for gray water, ~~and~~ on-site treated *nonpotable* water, *and recycled water supply* systems required to have a permit in accordance with Section 1501.3, *Section 1503.2 and Section* ~~*1504.2*~~ *1506.2* shall be supplied to the building owner by the system designer *or installer*. The operating and maintenance manual shall include the following:

(1) – (7) (No change to existing California amendment)

**1501.7 Minimum Water Quality Requirements.** The minimum water quality for alternate water source systems shall meet the applicable water quality requirements for the intended application as determined by the Authority Having Jurisdiction. ~~In the absence of water quality requirements, the EPA/625/R-04/108 contains recommended water reuse guidelines to assist regulatory agencies to develop, revise, or expand alternate water source water quality standards~~ *Water quality requirements for on-site treated nonpotable graywater shall comply with Section* ~~*1504.10.2*~~ *1506.9.2. Recycled water shall comply with the water quality requirements of Section* ~~*1503.14*~~ *1505.14.*

**Exception:** Water treatment is not required for gray water used *in a disposal field or* for subsurface *or subsoil* irrigation.

***1501.*~~*109*~~ *Signage.*** *Signage for on-site treated nonpotable gray water shall comply with Sections* ~~*1501.10.1*~~ *1501.9.1 and* ~~*Section 1501.10.2*~~ *1501.9.2. Signage for reclaimed (recycled) water shall comply with Section* ~~*1503.12*~~ *1505.12.*

**1501.9.*1* Commercial, Industrial, ~~and~~ Institutional, and *Residential* Restroom Signs.** (No change to existing California amendment)

**1501.9.~~1~~ *2* Equipment Room Signs.** (No change to existing California amendment)

***1501.11*** ~~***1501.15***~~ ***Hose Bibbs for Single-Family Dwellings. (HCD 1)*** *(No change to existing California amendment)*

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**1502.0. Inspection and Testing.**

**1502.1 General (Formerly 1501.11 Inspection and Testing).** Alternate water source systems shall be inspected and tested in accordance with Section 1502.2 through Section ~~1502.3.4~~ *1502.3.3 and/or as required by the Authority Having Jurisdiction.*

**1502.3 (Formerly 1501.11.2) ~~Annual~~ Cross-Connection Inspection and Testing.** An initial ~~and subsequent annual~~ inspection and test shall be performed on both the potable and alternate water source systems. The potable and alternate water source system shall be isolated from each other and independently inspected and tested to ensure there is no cross-connection in accordance with Section 1502.3.1 through Section ~~1502.3.4~~ *1502.3.3*.

**1501.11.2 (2016 CPC) Cross-Connection Inspection and Testing.** An initial inspection and test shall be performed on both the potable and alternate water source systems. The potable and alternate water source system shall be isolated from each other and independently inspected and tested to ensure there is no cross-connection in accordance with Section 1501.11.2.1 through Section ~~*1501.11.2.3*~~

**1502.3.2 (Formerly 1501.11.2.2) Cross-Connection Test.** (No change to existing California amendment)

**1502.3.3 (Formerly 1501.11.2.3) Discovery of Cross-Connection.** (No change to existing California amendment)

**1502.3.4 Annual Inspection.** (No change to existing non-adoption)

**1503.0 Gray Water Systems.**

**1503.1 (Formerly 1502.1) General.** *(No change to existing California amendment)*

*(A) – (C) (No change to existing California amendment)*

*(D) Human contact with gray water or the soil irrigated by gray water shall be minimized and avoided, except as required to maintain the gray water system. The discharge point of any gray water subsoil irrigation or subsurface irrigation field shall be covered by at least two (2) inches (51 mm) of mulch, rock, or soil, or a solid shield to minimize the possibility of human contact.*

*(E) – (I) (No change to existing California amendment)*

***1503.1.1 ~~1502.1.1~~ (HCD 1) Clothes Washer System.*** *(No change to existing California amendment)*

***1503.1.2 ~~1502.1.2~~ Simple System.*** *Simple systems exceed a clothes washer system and shall comply with the following:*

*(1) The discharge capacity of a gray water system shall be determined by Section ~~1502.8~~ 1503.8. Simple systems have a discharge capacity of 250 gallons (947 L) per day or less.*

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(2) *(No change to existing California amendment)*

(3) *(No change to existing California amendment*

***1503.1.3*** ~~***1502.1.3***~~ ***Complex System.*** *Any gray water system that is not a clothes washer system or simple system shall comply with the following:*

*(1) The discharge capacity of a gray water system shall be determined by Section* ~~*1502.8*~~ *1503.8. Complex systems have a discharge capacity over 250 gallons (947 L) per day.*

(2) *(No change to existing California amendment)*

**1503.2 (Formerly 1502.2) System Requirements.** (No change to existing California amendment)

**1503.2.1 (Formerly 1502.2.1) Surge Capacity.** (No change to existing California amendment)

**1503.2.2 (Formerly 1502.2.2) Diversion.** The gray water system shall connect to the sanitary drainage system downstream of fixture traps and vent connections through an approved ~~gray water~~ diverter valve. The ~~gray water~~ diverter valve shall be installed in *a readily* accessible location and clearly indicate the direction of flow.

***Exception: (HCD 1)*** *A clothes washer system in compliance with Section* ~~*1502.1.1*~~ *1503.1.1.*

**1503.2.3 (Formerly 1502.2.3) Backwater Valves.** (No change to existing California amendment)

**1503.3 (Formerly 1502.3) Connections to Potable and Reclaimed (Recycled) Water Systems.** Gray water systems shall have no direct connection to a potable water supply, on-site treated nonpotable water supply, or reclaimed (recycled) water *supply* systems.

***Exceptions:***

*(1) (No change to existing California amendment)*

*(2) A potable water supply may be connected temporarily for initial testing of the untreated graywater system as required in Section* ~~*1501.11.2.2*~~ *1502.3.2.*

**1503.4 (Formerly 1502.4) Location.** (No change to existing California amendment)

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**TABLE 1503.4 (Formerly 1502.4)**
**LOCATION OF GRAY WATER SYSTEM[7]**
(No change to existing California amendment)

**1503.5 (Formerly 1502.5) Plot Plan Submission.** No permit for a gray water system shall be issued until a plot plan with data satisfactory to the Authority Having Jurisdiction has been submitted and approved.

***Exception (HCD 1)**: A construction permit shall not be required for a clothes washer system in compliance with Section ~~1502.1.1~~ 1503.1.1.*

**1503.6 (Formerly 1502.6) Prohibited Location.** (No change to existing California amendment)

**1503.7 (Formerly 1502.7) Drawings and Specifications.** (No change to existing California amendment)

**1503.8 (Formerly 1502.8) Procedure for Estimating Gray Water Discharge.** (No change to existing California amendment)

**1503.8.1 (Formerly 1502.8.1) ~~Single Family Dwellings and Multi-Family Dwellings.~~ *Residential Occupancies*.** (No change to existing California amendment)

***1503.8.3 ~~1502.8.3~~ Daily Discharge**. (No change to existing California amendment)*

**1503.9 (Formerly 1502.9) Gray Water System Components.** (No change to existing California amendment)

**1503.9.1 (Formerly 1502.9.1) Surge Tanks.** (No change to existing California amendment)

**1503.9.3 Subsoil Irrigation Field Materials.** (No change to existing non-adoption)

**1503.9.4 Subsurface Irrigation Field and Mulch Basin Supply Line Materials.** (No change to existing non-adoption)

**1503.9.5 Valves**. (No change to existing non-adoption)

**1503.9.6 Trap.** (No change to existing non-adoption)

**1503.9.7 Backwater Valve.** (No change to existing non-adoption)

***~~1502.9.2.1~~ 1503.9.3 Animals and Insects.** (No change to existing California amendment)*

***~~1502.9.2.2~~ 1503.9.4 Freeze Protection.** (No change to existing California amendment)*

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**1504.0 Subsurface Irrigation System Zones.**

**TABLE 1504.2 (Formerly 1502.10)**
**DESIGN OF SIX TYPICAL SOILS**
(No change to existing California amendment)

**1504.3 (Formerly 1502.10.2) Determination of Maximum Absorption Capacity.** The irrigation field and mulch basin size shall be based on the maximum absorption capacity of the soil and determined using Table 1504.2. For soils not listed in Table 1504.2, the maximum absorption capacity for the proposed site shall be determined by percolation tests or another method acceptable to the Authority Having Jurisdiction. A gray water system shall not be permitted, where the percolation test shows the absorption capacity of the soil is unable to accommodate the maximum discharge of the proposed gray water irrigation system.

***Exceptions:***

*(1) (No change to existing California amendment)*

*(2) Irrigation fields in compliance with Section ~~1502.11.2~~ 1504.5 which only utilize drip type emitters are exempt from percolation tests.*

**1504.4 (Formerly 1502.10.3) Groundwater Level.** (No change to existing California amendment)

**1504.5 Subsurface and Subsoil Irrigation Field Design and Construction.** (No change to existing non-adoption)

**1504.5.1 Subsurface Irrigation Field.** (No change to existing non-adoption)

**1504.5.2 Minimum Depth.** (No change to existing non-adoption)

**1504.5.3 Filter.** (No change to existing non-adoption)

**1504.5.4 Emitter Size.** (No change to existing non-adoption)

**1504.5.5 Number of Emitters.** (No change to existing non-adoption)

**1504.5.6 Controls.** (No change to existing non-adoption)

**1504.5.7 Maximum Pressure.** (No change to existing non-adoption)

**1504.6 Mulch Basin Design and Construction.** (No change to existing non-adoption)

**1504.6.1 Single Family and Multi-Family Dwellings.** (No change to existing non-adoption)

**1504.6.2 Size.** (No change to existing non-adoption)

**1504.6.3 Minimum Depth.** (No change to existing non-adoption)

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**1504.6.4 Maintenance.** (No change to existing non-adoption)

**1504.7 Subsoil Irrigation Field.** (No change to existing non-adoption)

**1504.7.1 Minimum Pipe Size.** (No change to existing non-adoption)

**1504.7.2 Filter Material and Backfill.** (No change to existing non-adoption)

**1504.7.3 Subsoil Irrigation Field Construction.** (No change to existing non-adoption)

***1504.5 ~~1502.11~~ Irrigation, Disposal Field and Mulch Basin Construction.*** *Irrigation fields, disposal fields and mulch basins used in gray water systems shall comply with this section. Gray water systems may contain either an irrigation field or a disposal field or a combination of both. This section is not intended to prevent the use of other methods of gray water irrigation or disposal approved by the Enforcing Agency.*

*(HCD 1) Irrigation design shall be verified in accordance with the California Green Building Standards Code (CALGreen), Chapter 4, Division 4.3.*

***1504.5.1 ~~1502.11.1~~ Mulch Basin.*** *A mulch basin may be used as an irrigation or disposal field. Mulch basins shall be sized in accordance with Table ~~1502.10~~ 1504.2 and of sufficient depth, length and width to prevent ponding or runoff during the gray water surge of a clothes washer, bathtub or shower. Mulch must be replenished as required due to decomposition of organic matter. Mulch basins will require periodic maintenance, reshaping or removal of dirt to maintain surge capacity and to accommodate plant growth and prevent ponding or runoff.*

***1504.5.2 ~~1502.11.2~~ Irrigation Field.*** *The provisions of this section are not intended to prevent the use of any appropriate material, appliance, installation, device, design or method of construction. If an alternate design is not available, the following provisions may be used as guidance in the design of a gray water irrigation field:*

*(1) (No change to existing California amendment)*

*(2) (No change to existing California amendment)*

*(3) Each irrigation zone shall be designed to include no less than the number of emitters specified in Table ~~1502.11~~ 1504.5.5, or through a procedure designated by the Enforcing Agency. Minimum spacing between emitters in any direction shall be sufficient to prevent surfacing or runoff.*

*(4) – (7) (No change to existing California amendment)*

***1504.5.3 ~~1502.11.3~~ Disposal Field.*** *The provisions of this section are not intended to prevent the use of any appropriate material, appliance, installation, device, design or method of construction. If an alternate design is not available, the following provisions may be used as guidance in the design of a gray water disposal field:*

*(A) Disposal systems shall be not less than three (3) inches (80 mm) in cross sectional dimension and shall be constructed of perforated high-density polyethylene pipe, perforated ABS pipe, perforated PVC pipe, leaching chambers or other approved materials, provided that sufficient openings are available for distribution of the gray water into the trench area. Material, construction, and perforation shall be in compliance with the appropriate absorption field's drainage standards and shall be approved by the Enforcing Agency.*

*(B) (No change to existing California amendment)*

*(C) Disposal fields shall be constructed in accordance with Table ~~1502.11.3~~ 1504.7.3.*

*(D) (No change to existing California amendment)*

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**TABLE 1504.7.3 (Formerly 1502.11.3)**
**SUBSOIL IRRIGATION FIELD CONSTRUCTION**
(No change to existing California amendment)

**1504.8 (Formerly 1502.12) Gray Water System Color and Marking Information.** (No change to existing California amendment)

**1504.9 (Formerly 1502.13) Other Collection and Distribution Systems.** (No change to existing California amendment)

**1504.9.1 Higher Requirements.** (No change to existing non-adoption)

***1504.9.1 ~~1502.13.1~~ Future Connections.*** *(No change to existing California amendment)*

**1504.11 (Formerly 1502.15) Maintenance.** (No change to existing California amendment)

**1505.0 Reclaimed (Recycled) Water Systems. (Not adopted by HCD)**

**1506.0 On-Site Treated Nonpotable *Gray* Water Systems.**

**1506.1 (Formerly 1504.1) General.** (No change to existing California amendment)

**1506.2 (Formerly 1504.2) Plumbing Plan Submission.** (No change to existing California amendment)

**1506.3 (Formerly 1504.3) System Changes.** (No change to existing California amendment)

**1506.4 (Formerly 1504.4) Connections to Potable or Reclaimed (Recycled) Water Systems.** On-site treated nonpotable *gray* water systems shall have no *direct* connection to a potable water supply or reclaimed (recycled) water ~~source~~ *supply* system.

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***Exceptions:***

*(1) (No change to existing California amendment)*

*(2) A potable water supply may be connected temporarily for initial testing of the on-site treated nonpotable gray water system as provided in Section ~~1501.11.2.2~~ 1502.3.2.*

**1506.6 (Formerly 1504.6) On-Site Treated Nonpotable *Gray* Water System Materials.** (No change to existing California amendment)

**1506.7 (Formerly 1504.7) On-Site Treated Nonpotable *Gray* Water Devices and Systems.** (No change to existing California amendment)

**1506.8 (Formerly 1504.8) On-Site Treated Nonpotable *Gray* Water System Color and Marking Information.** (No change to existing California amendment)

**1506.9 (Formerly 1504.10) Design and Installation.** The design and installation of on-site treated nonpotable *gray water* systems shall be in accordance with Section 1506.9.1 through Section ~~1506.9.5~~ *1506.9.6*.

**1504.10 (2016 CPC) Design and Installation.** The design and installation of on-site treated nonpotable *gray water* systems shall be in accordance with Section 1504.10.1 through Section ~~*1504.10.6*~~.

**1506.9.1 (Formerly 1504.10.1) Listing Terms and Installation Instructions.** (No change to existing California amendment)

**1506.9.2 (Formerly 1504.10.2) Minimum Water Quality.** (No change to existing California amendment)

**1506.9.3 (Formerly 1504.10.3) Deactivation and Drainage.** (No change to existing California amendment)

**1506.9.4 (Formerly 1504.10.4) Near Underground Potable Water Pipe.** (No change to existing California amendment)

**1506.9.5 (Formerly 1504.10.5) Required Filters.** (No change to existing California amendment)

***1506.9.6 ~~1504.10.6~~ Disinfection.** (No change to existing California amendment)*

**1506.11 (Formerly 1504.11) Signs.** Signs in buildings using on-site treated nonpotable *gray* water shall comply with Section~~s~~ 1501.9, ~~and Section~~ 1501.9.1, *and ~~Section 1501.10.2~~ 1501.9.2, and applicable requirements of the California Building Code.*

**1506.12 (Formerly 1504.12) Inspection and Testing.** (No change to existing California amendment)

**NOTE:**
Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17926, 17927, 17928, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1 through 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; Civil Code Sections 1101.4, 1101.5 and 1954.201; and Government Code Sections 12955.1 and 12955.1.1.

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**17. HCD proposes to adopt Chapter 16 from the 2018 Uniform Plumbing Code into the 2019 California Plumbing Code, with new and existing amendments as follows. HCD proposes to not adopt Sections 1601.5.1, 1601.5.2, 1605.3.4 and Table 1601.5.**

## CHAPTER 16
## NONPOTABLE RAINWATER CATCHMENT SYSTEMS

**1601.0 General.**

**1601.1 Applicability.** ~~*(HCD 1)*~~ The provisions of this chapter shall apply to the installation, construction, alteration, and repair of nonpotable rainwater catchment systems. ~~*In addition, applicable provisions in Chapter 15, Section 1501.7 for "Alternate Water Sources for Nonpotable Applications" shall apply to rainwater catchment systems.*~~

**1601.2 System Design.** Rainwater catchment systems shall be designed in accordance with this chapter by a person registered or licensed to perform plumbing design work or who demonstrates competency to design the rainwater catchment system as required by the Authority Having Jurisdiction ~~*by a person who demonstrates competency to design the alternate water source system as required by the Enforcing Agency. The Enforcing Agency may also require plans and specifications to be prepared by a licensed design professional.*~~ Components, piping, and fittings used in a rainwater catchment system shall be listed.

**(HCD 1)** *Irrigation design plans shall meet the requirements of the California Code of Regulations, Title 23, Division 2, Chapter 2.7, Model Water Efficient Landscape Ordinance.*

**Exceptions:**

(1) (No change to model code text)

(2) (No change to model code text)

**1601.3 Permit.** (No change to existing California amendment)

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**1601.5 (Formerly 1601.4) Maintenance and Inspection.** (No change to existing California amendment)

**1601.5.1 Frequency.** (No change to existing non-adoption)

**1601.5.2 Maintenance Log.** (No change to existing non-adoption)

~~**1601.5.3**~~ ***1601.5.1*** **(Formerly 1601.4.1) Maintenance Responsibility.** (No change to the model code text)

**TABLE 1601.5**
**MINIMUM ALTERNATE WATER SOURCE TESTING, INSPECTION, AND MAINTENANCE FREQUENCY**
(Not adopted by HCD)

**1601.6 (Formerly 1601.5) Operation and Maintenance Manual.** (No change to existing California amendment)

**1601.7 (Formerly 1601.6) Minimum Water Quality Requirements.** The minimum water quality for rainwater catchment systems shall comply with the applicable water quality requirements for the intended application as determined by Authority Having Jurisdiction. Water quality for nonpotable rainwater catchment systems shall comply with Section 1602.9.6. *In the absence of water quality requirements for harvested rainwater, Table ~~1602.9.4~~ 1602.9.6 shall apply.*

***Exceptions:***

(1) (No change to model code text).

(2) (No change to existing California amendment)

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**1602.0 Nonpotable Rainwater Catchment Systems.**

**1602.4 Connections to Potable or Reclaimed (Recycled) Water Systems.** Rainwater catchment systems shall have no direct ~~unprotected~~ connection to a potable water supply or alternate water source system. Potable or reclaimed (recycled) water is permitted to be used as makeup water for a rainwater catchment system provided the potable or reclaimed (recycled) water supply connection is protected by an air gap or reduced-pressure principle backflow preventer in accordance with this code.

**1602.9.4 (Formerly 1602.9.3.1) Other Surfaces.** (No change to existing California amendment)

***1602.9.6.1*** ~~***1602.9.4.1***~~ ***Disinfection.*** *(No change to existing California amendment)*

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**TABLE 1602.9.6 (Formerly 1602.9.4)**
**MINIMUM WATER QUALITY**

| Application | Minimum Treatment | Minimum Water Quality |
|---|---|---|
| Car washing | (No change to model code text) | N/A |
| *Surface*, Ssubsurface and drip irrigation | Debris excluder or other approved means in accordance with Section 1603.14, and 100 microns *(100 µm)* in accordance with Section 1603.15 for drip irrigation. | N/A |
| Spray irrigation where the maximum storage volume is less than 360 gallons (*1363 L*) | Debris excluder or other approved means in accordance with Section 1603.14~~, and disinfection in accordance with Section 1603.12~~. | N/A |
| Spray irrigation where the maximum storage volume is equal to or more than 360 gallons (*1363 L*) | (No change to model code text) | (No change to model code text) |
| Urinal and water closet flushing, clothes washing, and trap priming | (No change to model code text) | (No change to model code text) |
| Ornamental fountains and other water features | (No change to model code text) | (No change to model code text) |
| Cooling tower make up water | (No change to model code text) | (No change to model code text) |

For SI units: 1 micron = 1 µm, 1 gallon = 3.785L

**1603.0 (Formerly 1602.9.5) Rainwater Storage Tanks.**

**1603.4 (Formerly 1602.9.5.3) Above Grade.** Above grade, storage tanks shall be of an opaque material, approved for aboveground use in direct sunlight or shall be shielded from direct sunlight. Tanks shall be installed in an accessible location to allow for inspection and cleaning. The tank shall be installed on a foundation or platform that is constructed to accommodate loads in accordance with the ~~building code~~ *California Building Code.*

***Exception:*** *Tanks may be installed directly on grade in accordance with 1601.3.*

**1603.5 (Formerly 1602.9.5.4) Below Grade.** (No change to existing California amendment)

**1603.6 (Formerly 1602.9.5.5) Drainage and Overflow.** (No change to existing California amendment)

**1603.7 (Formerly 1602.9.5.6) Opening and Access Protection.** (No change to existing California amendment)

**1603.9 (Formerly 1602.9.5.8) Storage Tank Venting.** (No change to existing California amendment)

**1603.15 (Formerly 1602.9.11) Required Filters.** A filter permitting the passage of particulates not larger than 100 microns (100 µm) shall be provided for rainwater supplied to water closets, urinals, trap primers, and drip irrigation systems.

**1604.0 Signs.**

**1604.1 (Formerly 1602.10 Signs) General.** (No change to existing California amendment)

**1604.2 (Formerly 1602.10.1) Commercial, Industrial, ~~and~~ Institutional, *and Residential* Restroom Signs.** A sign shall be installed in restrooms in commercial, industrial, and institutional occupancies, *and ~~shall also be installed~~ in residential common use areas ~~restrooms~~* using nonpotable rainwater for water closets, urinals, or both. *Signs shall comply with all applicable requirements of the California Building Code.* Each sign shall contain ~~1/2 of an inch (12.7 mm) letters of a highly visible color on a contrasting background. The location of the sign(s) shall be such that the sign(s) shall be visible to users. The number and location of the signs shall be approved by the Authority Having Jurisdiction and shall contain~~ the following text:

TO CONSERVE WATER, THIS BUILDING USES RAINWATER TO FLUSH TOILETS AND URINALS.

**1604.3 (Formerly 1602.10.2) Equipment Room Signs.** (No change to existing California amendment)

**1605.0 Inspection and Testing.**

**1605.3 (Formerly 1602.11.2) ~~Annual~~ Cross-Connection Inspection and Testing.** An initial ~~and subsequent annual~~ inspection and test in accordance with Section 1602.5 shall be performed on both the potable and rainwater catchment water systems. The potable and rainwater catchment water systems shall be isolated from each other and independently inspected and tested to ensure there is no cross-connection in accordance with Section 1605.3.1 through Section ~~1605.3.4~~ *1605.3.3*.

> **1602.11.2 (2016 CPC) Cross-Connection Inspection and Testing.** An initial inspection and test in accordance with Section 1602.5 shall be performed on both the potable and rainwater catchment water systems. The potable and rainwater catchment water systems shall be isolated from each other and independently inspected and tested to ensure there is no cross-connection in accordance with Section 1602.11.2.1 through Section ~~*1602.11.2.3*~~.

**1605.3.2 (Formerly 1602.11.2.2) Cross-Connection Test.** ~~The procedure for determining cross-connection shall be followed by the applicant~~ *A cross-connection test shall be performed* in the presence of the Authority Having Jurisdiction ~~and~~ *or* other authorities having jurisdiction to determine whether a cross-connection has occurred as follows:

(1) – (5) (No change to model code text)

(6) The rainwater catchment water system shall then be activated and pressurized.

*When rainwater is not available for the initial test, a temporary connection to a potable water supply shall be required. At the conclusion of the test, the temporary connection to the potable water supply shall be disconnected.*

(7) – (10) (No change to model code text)

**1605.3.3 (Formerly 1602.11.2.3) Discovery of Cross-Connection.** In the event that a cross-connection is discovered, the following procedure~~, in the presence of the Authority Having Jurisdiction,~~ shall be activated immediately:

(1) (No change to existing California amendment)
(2) – (6) (No change to model code text)

**1605.3.4 Annual Inspection.** (No change to existing non-adoption)

**NOTE:**
Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17926, 17927, 17928, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1 through 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; Civil Code Sections 1101.4, 1101.5 and 1954.201; and Government Code Sections 12955.1 and 12955.1.1.

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**18. HCD proposes to adopt Chapter 17 from the 2018 Uniform Plumbing Code into the 2019 California Plumbing Code with new and existing amendments as follows:**

## CHAPTER 17
## REFERENCED STANDARDS

## TABLE 1701.1
## REFERENCED STANDARDS

| STANDARD NUMBER | STANDARD TITLE | APPLICATION | REFERENCED SECTIONS |
|---|---|---|---|
| *ASTM D1253-2014* | *Standard Test Method for Residual Chlorine in Water* | *Miscellaneous* | ~~*1504.10.6*~~, *1506.9.6* ~~*1602.9.4.1*~~ *1602.9.6.1* |
| NSF 350 -2014 | Onsite Residential and Commercial Water Reuse Treatment Systems ***Note:*** *NSF/ANSI 350, amended sections follow:* ***5.6 Electrical components.*** *Electrical components…The California Electrical Code shall be followed for all electrical components, system installation, and system operation.* | Miscellaneous | ~~*1501.7*~~, 1506.7 ~~*1504.10.2*~~ *1506.9.2* |
| … | | | |

**NOTE:**
Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17926, 17927, 17928, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1 through 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; Civil Code Sections 1101.4, 1101.5 and 1954.201; and Government Code Sections 12955.1 and 12955.1.1.

CA BUILDING STANDARDS COMMISSION
JAN 15 2019
APPROVED

19. **HCD proposes to adopt Appendix A from the 2018 Uniform Plumbing Code into the 2019 California Plumbing Code without amendments:**

## APPENDIX A
## RECOMMENDED RULES FOR SIZING THE WATER SUPPLY SYSTEM

***Appendix note:*** *The provisions contained in this appendix are not mandatory unless specifically adopted by a state agency, or referenced in the adopting ordinance.*

**NOTE:**
Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17926, 17927, 17928, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1 through 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; Civil Code Sections 1101.4, 1101.5 and 1954.201; and Government Code Sections 12955.1 and 12955.1.1.

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20. **HCD proposes to NOT adopt Appendix B from the 2018 Uniform Plumbing Code.**

## APPENDIX B
## EXPLANATORY NOTES ON COMBINATION WASTE AND VENT SYSTEMS

***Appendix note:*** *The provisions contained in this appendix are not mandatory unless specifically adopted by a state agency, or referenced in the adopting ordinance.*

**NOTE:**
Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17926, 17927, 17928, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1 through 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; Civil Code Sections 1101.4, 1101.5 and 1954.201; and Government Code Sections 12955.1 and 12955.1.1.

CA BUILDING STANDARDS COMMISSION
JAN 15 2019
APPROVED

21. **HCD proposes to NOT adopt Appendix C from the 2018 Uniform Plumbing Code.**

## APPENDIX C
## ALTERNATE PLUMBING SYSTEMS

***Appendix note:*** *The provisions contained in this appendix are not mandatory unless specifically adopted by a state agency, or referenced in the adopting ordinance.*

**NOTE:**
Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17926, 17927, 17928, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1 through 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; Civil Code Sections 1101.4, 1101.5 and 1954.201; and Government Code Sections 12955.1 and 12955.1.1.

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22. **HCD proposes to adopt Appendix D from the 2018 Uniform Plumbing Code into the 2019 California Plumbing Code without amendment:**

## APPENDIX D
## SIZING STORM WATER DRAINAGE SYSTEMS

***Appendix note:*** *The provisions contained in this appendix are not mandatory unless specifically adopted by a state agency, or referenced in the adopting ordinance.*

**NOTE:**
Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17926, 17927, 17928, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1 through 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; Civil Code Sections 1101.4, 1101.5 and 1954.201; and Government Code Sections 12955.1 and 12955.1.1.

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BUILDING STANDARDS COMMISSION
JAN 15 2019
APPROVED

23. **HCD proposes to NOT adopt Appendix E from the 2018 Uniform Plumbing Code.**

## APPENDIX E
## MANUFACTURED/MOBILE HOME PARKS AND RECREATIONAL VEHICLE PARKS

***Appendix note:*** *The provisions contained in this appendix are not mandatory unless specifically adopted by a state agency, or referenced in the adopting ordinance.*

**NOTE:**
Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17926, 17927, 17928, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1 through 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; Civil Code Sections 1101.4, 1101.5 and 1954.201; and Government Code Sections 12955.1 and 12955.1.1.

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24. **HCD proposes to NOT adopt Appendix F from the 2018 Uniform Plumbing Code.**

## APPENDIX F
## FIREFIGHTER BREATHING AIR REPLENISHMENT SYSTEMS

***Appendix note:*** *The provisions contained in this appendix are not mandatory unless specifically adopted by a state agency, or referenced in the adopting ordinance.*

**NOTE:**
Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17926, 17927, 17928, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1 through 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; Civil Code Sections 1101.4, 1101.5 and 1954.201; and Government Code Sections 12955.1 and 12955.1.1.

25. **HCD proposes to NOT adopt Appendix G from the 2018 Uniform Plumbing Code.**

## APPENDIX G
## SIZING OF VENTING SYSTEMS

***Appendix note:*** *The provisions contained in this appendix are not mandatory unless specifically adopted by a state agency, or referenced in the adopting ordinance.*

**NOTE:**
Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17926, 17927, 17928, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1 through 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; Civil Code Sections 1101.4, 1101.5 and 1954.201; and Government Code Sections 12955.1 and 12955.1.1.

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26. **HCD proposes to adopt Appendix H from the 2018 Uniform Plumbing Code into the 2019 California Plumbing Code without amendment:**

## APPENDIX H
## PRIVATE SEWAGE DISPOSAL SYSTEMS

***Appendix note:*** *The provisions contained in this appendix are not mandatory unless specifically adopted by a state agency, or referenced in the adopting ordinance.*

**NOTE:**
Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17926, 17927, 17928, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1 through 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; Civil Code Sections 1101.4, 1101.5 and 1954.201; and Government Code Sections 12955.1 and 12955.1.1.

STANDARDS COMMISSION
JAN 15 2019
APPROVED

27. **HCD proposes to adopt Appendix I from the 2018 Uniform Plumbing Code into the 2019 California Plumbing Code without amendment:**

## APPENDIX I
## INSTALLATION STANDARD FOR PEX TUBING SYSTEMS FOR HOT - AND COLD-WATER DISTRIBUTION

***Appendix note:*** *The provisions contained in this appendix are not mandatory unless specifically adopted by a state agency, or referenced in the adopting ordinance.*

**NOTE:**
Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17926, 17927, 17928, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1 through 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; Civil Code Sections 1101.4, 1101.5 and 1954.201; and Government Code Sections 12955.1 and 12955.1.1.

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28. **HCD proposes to NOT adopt Appendix J from the 2018 Uniform Plumbing Code.**

## APPENDIX J
## COMBINATION OF INDOOR AND OUTOOR COMBUSTION AND VENTILATION OPENING DESIGN

***Appendix note:*** *The provisions contained in this appendix are not mandatory unless specifically adopted by a state agency, or referenced in the adopting ordinance.*

**NOTE:**
Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17926, 17927, 17928, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1 through 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; Civil Code Sections 1101.4, 1101.5 and 1954.201; and Government Code Sections 12955.1 and 12955.1.1.

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29. **HCD proposes to NOT adopt Appendix K from the 2018 Uniform Plumbing Code.**

## APPENDIX K
## POTABLE RAINWATER CATCHMENT SYSTEMS

***Appendix note:*** *The provisions contained in this appendix are not mandatory unless specifically adopted by a state agency, or referenced in the adopting ordinance.*

**NOTE:**
Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17926, 17927, 17928, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1 through 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; Civil Code Sections 1101.4, 1101.5 and 1954.201; and Government Code Sections 12955.1 and 12955.1.1.

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30. **HCD proposes to NOT adopt Appendix L from the 2018 Uniform Plumbing Code.**

## APPENDIX L
## SUSTAINABLE PRACTICES

***Appendix note:*** *The provisions contained in this appendix are not mandatory unless specifically adopted by a state agency, or referenced in the adopting ordinance.*

**NOTE:**
Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17926, 17927, 17928, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1 through 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; Civil Code Sections 1101.4, 1101.5 and 1954.201; and Government Code Sections 12955.1 and 12955.1.1.

31. **HCD proposes to NOT adopt Appendix M from the 2018 Uniform Plumbing Code.**

## APPENDIX M
## PEAK WATER DEMAND CALCULATOR

***Appendix note:*** *The provisions contained in this appendix are not mandatory unless specifically adopted by a state agency, or referenced in the adopting ordinance.*

**NOTE:**
Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17926, 17927, 17928, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1 through 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; Civil Code Sections 1101.4, 1101.5 and 1954.201; and Government Code Sections 12955.1 and 12955.1.1.