

Ordinance No. 5567

Ordinance of the Council of the City of Palo Alto Repealing Chapter 16.08 of the Palo Alto Municipal Code and Amending Title 16 to Adopt a New Chapter 16.08, California Plumbing Code, 2022 Edition, and Local Amendments and Related Findings

The Council of the City of Palo Alto does ORDAIN as follows:

SECTION 1. Chapter 16.08 of the Palo Alto Municipal Code is hereby amended by repealing in its entirety 16.08 and adopting a new Chapter 16.08 to read as follows:

**CHAPTER 16.08
CALIFORNIA PLUMBING CODE,
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 5**

Sections

- 16.08.010** 2022 California Plumbing Code, Title 24, Part 5 adopted and amended.
- 16.08.020** Cross - References to California Plumbing Code.
- 16.08.030** Local Amendments.
- 16.08.040** Administration & Enforcement of 2022 California Plumbing Code.
- 16.08.050** Adoption of Chapter 1, Division II Administration.
- 16.08.060** Section 102.8 Appendices.
- 16.08.070** Section 306.3 Palo Alto sewer use.
- 16.08.080** Section 701.2, (4) Drainage piping.
- 16.08.090** Section 719.7 Cleanouts.
- 16.08.100** Section 808.2 Single pass cooling water systems prohibited.
- 16.08.110** Section 1014.1.3 Food waste disposal units and dishwashers.
- 16.08.120** Section 1101.4 Material use.
- 16.08.130** Section 1101.4.1 Copper and copper alloys.
- 16.08.140** Section 1101.4.2 Conductors.
- 16.08.150** Section 1101.4.3 Leaders.
- 16.08.160** Section 1102.1 Applications.

16.08.010 2022 California Plumbing Code, Title 24, Part 5 adopted and amended.

The California Plumbing Code, 2022 Edition, Title 24, Part 5 of the California Code of Regulations together with those omissions, amendments, exceptions and additions thereto, is adopted and hereby incorporated in this Chapter by reference and made a part hereof the same as if fully set

forth herein.

Unless superseded and expressly repealed, references in City of Palo Alto forms, documents and regulations to the chapters and sections of the former editions of the California Code of Regulations, Title 24, shall be construed to apply to the corresponding provisions contained within the California Code of Regulations, Title 24, 2022. Ordinance No. 5480 of the City of Palo Alto and all other ordinances or parts of ordinances in conflict herewith are hereby suspended and expressly repealed.

Wherever the phrases "California Plumbing Code" or "Plumbing Code" are used in this code or any ordinance of the City, such phrases shall be deemed and construed to refer and apply to the California Plumbing Code, 2022 Edition, Title 24, Part 4 of the California Code of Regulations, as adopted by this Chapter.

One copy of the California Plumbing Code, 2022 edition, has been filed for use and examination of the public in the Office of the Building Official of the City of Palo Alto.

16.08.020 Cross - References to California Plumbing Code.

The provisions of this Chapter contain cross-references to the provisions of the California Plumbing Code, 2022 Edition, in order to facilitate reference and comparison to those provisions.

16.08.030 Local Amendments.

The provisions of this Chapter shall constitute local amendments to the cross-referenced provisions of the California Plumbing Code, 2022 Edition, and shall be deemed to replace the cross-referenced sections of said Code with the respective provisions set forth in this Chapter. Where used in this Chapter 16.04, ellipses shall indicate text of the California Building Code, 2022 Edition, that has been adopted without amendment but is omitted for brevity.

16.08.040 Administration & Enforcement of 2022 California Plumbing Code.

Administration and enforcement of this code shall be governed by Chapter 1, Division II of the 2022 California Building Code as amended by Palo Alto Municipal Code Chapter 16.04.

16.08.050 Adoption of Chapter 1, Division II Administration.

Chapter 1, Division II Administration of the 2022 California Plumbing Code is adopted by the City of Palo Alto to supplement, to the extent it does not conflict with, Chapter 1, Division II of the 2022 California Building Code as amended.

16.08.060 Section 102.8 Appendices.

The following Appendix Chapters of the California Plumbing Code, 2022 Edition, are adopted and hereby incorporated in this Chapter by reference and made a part hereof the same as if fully set forth herein:

- A. Appendix A – Recommended rules for sizing the water supply system
- B. Appendix D – Sizing storm water drainage systems

16.08.070 Section 306.3 Palo Alto sewer use.

Section 306.3 of Chapter 3 of the California Plumbing Code is added to read:

306.3 Palo Alto sewer use. All non-domestic waste shall comply with the City of Palo Alto Sewer Use Ordinance (Palo Alto Municipal Code Chapter 16.09). Where discrepancies exist between the requirements of this code and said ordinance, the provisions of said ordinance shall apply.

16.08.080 Section 701.2, (4) Drainage piping.

Subdivision (4) of Section 701.2 of Chapter 7 of the California Plumbing Code is amended to read:

701.2 Drainage Piping

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

[. . .]

(4) Copper, copper alloys, lead and lead alloys, including brass, shall not be used for building sanitary drainage lines, connectors or seals coming in contact with sewage except for domestic waste sink traps and short lengths of associated connecting pipes where alternate materials are impracticable.

Where permitted by the building official or their designee, copper tube for drainage piping shall have a weight of not less than that of copper drainage tube type DWV.

[. . .]

16.08.090 Section 719.7 Cleanouts.

Section 719.7 of Chapter 7 of the California Plumbing Code is added to read:

719.7 Cleanouts. A cleanout shall be provided at the point of connection between the building sewer and the city lateral and an approved fitting shall be used to bring the cleanout riser to grade. Where sewer cleanouts are to be connected to existing city laterals, such connections shall be accomplished by use of a City of Palo Alto Utility approved fitting.

16.08.100 Section 808.2 Single pass cooling water systems prohibited.

Section 808.2 of Chapter 8 of the California Plumbing Code is added to read:

808.2 Single pass cooling water systems prohibited. Clean running water used exclusively as a cooling medium in an appliance, device, or apparatus is prohibited. Refer to PAMC 16.14.350 for additional CALGreen measures.

16.08.110 Section 1014.1.3 Food waste disposal units and dishwashers.

Section 1014.1.3 of Chapter 10 of the California Plumbing Code is amended to read:

1014.1.3 Food waste disposal units and dishwashers. Unless specifically required or permitted by the Authority Having Jurisdiction, no dishwasher shall be connected to or discharge into any grease interceptor. Commercial Food Waste Disposal Units are prohibited.

16.08.120 Section 1101.4 Material use.

Section 1101.4 of Chapter 11 of the California Plumbing Code is amended to read:

1101.4 Material use. 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, 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 Chapter 17 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. Plastic piping installed in plenums shall be tested in accordance with all requirements of ASTM E84 or UL 723. Mounting methods, supports and sample sizes of materials for testing that are not specified in ASTM E84 or UL 723 shall be prohibited.

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

[OSHPD 1, 2, 3 & 4] ABS and PVC installations are not allowed.

16.08.130 Section 1101.4.1 Copper and copper alloys.

Section 1101.4.1 of Chapter 11 of the California Plumbing Code is amended to read:

1101.4.1 Copper and copper alloys. Joints and connections in copper and copper alloy pipe and tube is prohibited.

16.08.140 Section 1101.4.2 Conductors.

Section 1101.4.2 of Chapter 11 of the California Plumbing Code is amended to read:

1101.4.2 Conductors. Conductors installed aboveground in buildings shall comply with the applicable standards referenced in Table 701.2 for aboveground drain, waste, and vent pipe. Conductors installed aboveground level shall be of Schedule 40 copper pipe or Schedule 40 copper alloy pipe; service weight cast-iron soil pipe or hubless cast-iron soil pipe; standard weight galvanized steel pipe; 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 Schedule 40 ABS or Schedule 40 PVC plastic pipe.

16.08.150 Section 1101.4.3 Leaders.

Section 1101.4.3 of Chapter 11 of the California Plumbing Code is amended to read:

1101.4.3 Leaders. Leaders installed outside shall be in accordance with the applicable standards referenced in Table 701.2 for aboveground drain, waste, and vent pipe; aluminum sheet metal; or galvanized steel sheet metal.

16.08.160 Section 1102.1 Applications.

Section 1102.1 of Chapter 11 of the California Plumbing Code is amended to read:

1102.1 Applications. Roof drains shall be constructed of aluminum, cast-iron, stainless steel, ABS, PVC, polypropylene, polyethylene, or nylon and shall comply with ASME A112.3.1 or ASME A112.6.4.

SECTION 2. The Council adopts the findings for local amendments to the California Plumbing Code, 2022 Edition, attached hereto as Exhibit “A” and incorporated herein by reference.

SECTION 3. The Council finds that this project is exempt from the provisions of the California Environmental Quality Act (“CEQA”), pursuant to Section 15061 of the CEQA Guidelines, because it can be seen with certainty that there is no possibility that the amendments herein adopted will have a significant effect on the environment.

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SECTION 4. This Ordinance shall be effective on the thirty-first day after the date of its adoption.

INTRODUCED: October 17, 2022

PASSED: November 14, 2022

AYES: BURT, CORMACK, DUBOIS, FILSETH, KOU, STONE, TANAKA

NOES:

ABSENT:

ABSTENTIONS:

ATTEST:

DocuSigned by:
Lesley Milton

City Clerk

DocuSigned by:
Patrick Burt

Mayor

APPROVED AS TO FORM:

DocuSigned by:
Albert Yang

Assistant City Attorney

APPROVED:

DocuSigned by:
Ed Shibada

City Manager

DocuSigned by:
[Signature]

Director of Planning and
Development Services

DocuSigned by:
Kelly L. Rose

Director of Administrative Services

Exhibit A**FINDINGS FOR LOCAL AMENDMENTS TO CALIFORNIA PLUMBING CODE,
TITLE 24, PART 5**

Section 17958 of the California Health and Safety Code provides that the City may make changes to the provisions of the California Building Standards Code. Sections 17958.5 and 17958.7 of the Health and Safety Code require that for each proposed local change to those provisions of the California Building Standards Code which regulate buildings used for human habitation, the City Council must make findings supporting its determination that each such local change is reasonably necessary because of local climatic, geological, or topographical conditions.

Local building regulations having the effect of amending the uniform codes, which were adopted by the City prior to November 23, 1970, were unaffected by the regulations of Sections 17958, 17958.5 and 17958.7 of the Health and Safety Code. Therefore, amendments to the uniform codes which were adopted by the City Council prior to November 23, 1970 and have been carried through from year to year without significant change, need no required findings. Also, amendments to provisions not regulating buildings used for human habitation do not require findings.

Code: California Plumbing Code, Title, 24, Part 5					
Chapter(s), Sections(s), Appendices	Title	Added	Amended	Replaced	Justification (See below for keys)
Ch. 1, Div. II	ADMINISTRATION	✓			A
	Administration and Enforcement	✓			A
306.3	Palo Alto sewer use	✓			C
701.2	(4) Drainage piping		✓		C
719.7	Cleanouts	✓			C
808.2	Single pass cooling water systems prohibited	✓			C
1014.1.3	Food waste disposal units and dishwashers		✓		C
1101.4	Material use		✓		C
1101.4.1	Copper and copper alloys		✓		C
1101.4.2	Conductors		✓		C
1101.4.3	Leaders		✓		C
1102.1	Applications		✓		C
Appx. A	Recommended rules for sizing the water supply system	✓			A
Appx. D	Sizing storm water drainage systems	✓			A

Key to Justification for Amendments to Title 24 of the California Code of Regulations

A This is an **administrative** amendment to clarify and establish civil and administrative procedures, regulations, or rules to enforce and administer the activities by the Palo Alto Building Inspection Department. These administrative amendments do not need to meet HSC 18941.5/17958/13869 per HSC 18909(c).

C This amendment is justified based on a local **climatic** condition. The seasonal climatic conditions during the late summer and fall create severe fire hazards to the public health and welfare in the City. The hot, dry weather frequently results in wild land fires on the brush covered slopes west of Interstate 280. The aforementioned conditions combined with the geological characteristics of the hills within the City create hazardous conditions for which departure from California Building Standards Code is required.

G This amendment is justified based on a local **geological** condition. The City of Palo Alto is subject to earthquake hazard caused by its proximity to San Andreas fault. This fault runs from Hollister, through the Santa Cruz Mountains, epicenter of the 1989 Loma Prieta earthquake, then on up the San Francisco Peninsula, then offshore at Daly City near Mussel Rock. This is the approximate location of the epicenter of the 1906 San Francisco earthquake. The other fault is Hayward Fault. This fault is about 74 mi long, situated mainly along the western base of the hills on the east side of San Francisco Bay. Both faults are considered major Northern California earthquake faults which may experience rupture at any time. Thus, because the City is within a seismic area which includes these earthquake faults, the modifications and changes cited herein are designed to better limit property damage as a result of seismic activity and to establish criteria for repair of damaged properties following a local emergency.

T The City of Palo Alto **topography** includes hillsides with narrow and winding access, which makes timely response by fire suppression and emergency response vehicles difficult. Palo Alto is contiguous with the San Francisco Bay, resulting in a natural receptor for storm and wastewater run-off. Also, the City of Palo Alto is located in an area that is potentially susceptible to liquefaction during a major earthquake. The surface condition consists mostly of stiff to dense sandy clay, which is highly plastic and expansive in nature. The aforementioned conditions within the City create hazardous conditions for which departure from California Building Standards Code is warranted.

Certificate Of Completion

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Certificate Pages: 3	Initials: 0
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Time Zone: (UTC-08:00) Pacific Time (US & Canada)	250 Hamilton Ave
	Palo Alto , CA 94301
	Vinhloc.Nguyen@CityofPaloAlto.org
	IP Address: 199.33.32.254


Record Tracking

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Storage Appliance Status: Connected	Pool: City of Palo Alto	Location: DocuSign

Signer Events

Signer Events	Signature	Timestamp
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Electronic Record and Signature Disclosure:
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Geoffrey Blackshire Geoffrey.Blackshire@CityofPaloAlto.org Fire Chief Fire Services Security Level: Email, Account Authentication (None)	 <p>DocuSigned by: Geoffrey Blackshire 0FF7BFD93914C6...</p> <p>Signature Adoption: Pre-selected Style Using IP Address: 199.33.32.254</p>	<p>Sent: 11/21/2022 2:51:19 PM Resent: 11/29/2022 3:43:47 PM Viewed: 11/29/2022 3:54:58 PM Signed: 11/29/2022 3:56:24 PM</p>
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Electronic Record and Signature Disclosure:
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Brad Eggleston Brad.Eggleston@CityofPaloAlto.org Director of Public Works City of Palo Alto Security Level: Email, Account Authentication (None)	 <p>DocuSigned by: Brad Eggleston DF8505A6373A4DF...</p> <p>Signature Adoption: Pre-selected Style Using IP Address: 199.33.32.254</p>	<p>Sent: 11/29/2022 3:56:35 PM Viewed: 11/29/2022 5:45:39 PM Signed: 11/29/2022 5:46:20 PM</p>
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Electronic Record and Signature Disclosure:
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Kiely Nose Kiely.Nose@CityofPaloAlto.org Director, Administrative Services/CFO City of Palo Alto Security Level: Email, Account Authentication (None)	 <p>DocuSigned by: Kiely S. Nose 0513042E38B4409...</p> <p>Signature Adoption: Uploaded Signature Image Using IP Address: 73.162.77.140</p>	<p>Sent: 11/29/2022 5:46:29 PM Viewed: 12/1/2022 7:25:34 AM Signed: 12/1/2022 7:26:13 AM</p>
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Electronic Record and Signature Disclosure:
Not Offered via DocuSign

Signer Events	Signature	Timestamp
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Jonathan Lait
 Jonathan.Lait@CityofPaloAlto.org
 Interim Director Planning and Community Environment
 City of Palo Alto
 Security Level: Email, Account Authentication (None)
Electronic Record and Signature Disclosure:
 Not Offered via DocuSign

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Ed Shikada
 Ed.Shikada@CityofPaloAlto.org
 Ed Shikada, City Manager
 City of Palo Alto
 Security Level: Email, Account Authentication (None)
Electronic Record and Signature Disclosure:
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DocuSigned by:

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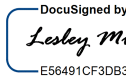
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Patrick Burt
 pat@patburt.org
 Mr
 Security Level: Email, Account Authentication (None)
Electronic Record and Signature Disclosure:
 Not Offered via DocuSign

DocuSigned by:

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 Resent: 12/2/2022 10:23:28 AM
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Lesley Milton
 Lesley.Milton@CityofPaloAlto.org
 City Clerk
 City Clerk
 Security Level: Email, Account Authentication (None)
Electronic Record and Signature Disclosure:
 Not Offered via DocuSign

DocuSigned by:

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Intermediary Delivery Events	Status	Timestamp
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Certified Delivery Events	Status	Timestamp
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Carbon Copy Events	Status	Timestamp
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Witness Events	Signature	Timestamp
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Notary Events	Signature	Timestamp
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Completed	Security Checked	12/2/2022 11:55:38 AM

Payment Events	Status	Timestamps
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