

Ordinance No. 5568

Ordinance of the Council of the City of Palo Alto Repealing Chapter 16.16 of the Palo Alto Municipal Code and Amending Title 16 to Adopt a New Chapter 16.16, California Electrical Code, 2022 Edition, and Local Amendments and Related Findings

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

SECTION 1. Chapter 16.16 of the Palo Alto Municipal Code is hereby amended by repealing in its entirety 16.16 and adopting a new Chapter 16.16 to read as follows:

**CHAPTER 16.16
CALIFORNIA ELECTRICAL CODE,
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 3**

Sections

- 16.16.010** 2022 California Electrical Code, Title 24, Part 3 adopted and amended.
 - 16.16.020** Cross - References to California Electrical Code.
 - 16.16.030** Local Amendments.
 - 16.16.040** Adoption of SECTION 89.101 GENERAL.
 - 16.16.050** Article 89.101.3.3 Exempted from This Code.
 - 16.16.060** Article 89.101.4 2022 California Electrical Code Annexes adopted.
 - 16.16.070** Administration & Enforcement of 2022 California Electrical Code.
 - 16.16.080** Article 110.13 Mounting and Cooling of Equipment.
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- 16.16.010** 2022 California Electrical Code, Cal. Code of Regs., Title 24, Part 3 adopted and amended.

The California Electrical Code, 2022 Edition, Title 24, Part 3 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Unless superseded and expressly repealed, references in City of Palo Alto forms, documents and regulations to the chapters and sections of the former California Code of Regulations, Title 24, 2019, shall be construed to apply to the corresponding provisions contained within the California Code of Regulations, Title 24, 2022. Ordinance No. 5482 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of Palo Alto and all other ordinances or parts of ordinances in conflict herewith are hereby suspended and expressly repealed.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 Electrical Code" or "Electrical 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 Electrical Code, 2022 Edition, as adopted by this Chapter.

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

16.16.020 Cross - References to California Electrical Code.

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

16.16.030 Local Amendments.

The provisions of this Chapter shall constitute local amendments to the cross-referenced provisions of the California Electrical 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.

16.16.040 Adoption of SECTION 89.101 GENERAL.

SECTION 89.101 GENERAL of the 2022 California Electrical Code is adopted by the City of Palo Alto as amended herein.

16.16.050 Article 89.101.3.3 Exempted from This Code.

Section 89.101.3.3 is amended as follows (additions underlined; sections omitted without change noted by [. .]):

89.101.3.3 Exempted from This Code.

This code does not cover:

1. Installations in ships, watercraft other than floating dwelling units, railway rolling stock, aircraft, automotive vehicles, commercial coaches, mobilehomes, and recreational vehicles.

[. .]

7. **ADDITIONAL EXEMPTIONS:** Electrical work that is exempt from permits pursuant to Palo Alto Municipal Code Section 16.04.110, Section 105.2 Work exempt from permit.

16.16.060 Article 89.101.4 2022 California Electrical Code Annexes adopted.

The following Annexes of the California Electrical 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. Annex B – Application Information for Ampacity Calculations
- B. Annex C – Conduit, Tubing, and Cable Tray Fill Tables for Conductors and Fixture Wires of the Same Size
- C. Annex I – Unit Recommended Tightening Torque Tables from UL Standard 486A - 486B

16.16.070 Administration & Enforcement of 2022 California Electrical 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.

16.16.080 Article 110.13 Mounting and Cooling of Equipment.

Article 110.13 (A) (1) of Article 110 of the California Electrical Code is added to read:

110.13 (A) (1) Concrete Slab Supporting Electrical Equipment. When electrical equipment is to be placed on a concrete substrate, a 4-inch concrete housekeeping pad shall be installed to elevate and protect the equipment.

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

SECTION 3. The Council finds that this ordinance 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.

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 Shikada

City Manager

DocuSigned by:
[Signature]

Director of Planning and Development Services

DocuSigned by:
Kelly L. Nese

Director of Administrative Services

Exhibit A**FINDINGS FOR LOCAL AMENDMENTS TO CALIFORNIA ELECTRICAL CODE,
TITLE 24, PART 3**

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 Electrical Code, Title, 24, Part 3					
Section(s) or Article(s)	Title	Added	Amended	Deleted	Justification (See below for keys)
89.101	GENERAL	✓			A
89.101.3.3	Exempt from This Code	✓			A
110.13 (A) (1)	Mounting and Cooling of Equipment	✓			C
Annex B	Application Information for Ampacity Calculations	✓			G
Annex C	Conduit, Tubing, and Cable Tray Fill Tables for Conductors and Fixture Wires of the Same Size	✓			A
Annex I	Unit Recommended Tightening Torque Tables from UL Standard 486A - 486B	✓			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

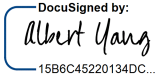
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Certificate Pages: 3	Initials: 0
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Envelopeld Stamping: Enabled	Vinhloc Nguyen
Time Zone: (UTC-08:00) Pacific Time (US & Canada)	250 Hamilton Ave
	Palo Alto , CA 94301
	Vinhloc.Nguyen@CityofPaloAlto.org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

Record Tracking

Status: Original	Holder: Vinhloc Nguyen	Location: DocuSign
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Storage Appliance Status: Connected	Pool: City of Palo Alto	Location: DocuSign

Signer Events

Signer Events	Signature	Timestamp
Albert Yang Albert.Yang@CityofPaloAlto.org Assistant City Attorney City of Palo Alto Security Level: Email, Account Authentication (None)	 <p>DocuSigned by: Albert Yang 15B6C45220134DC...</p> <p>Signature Adoption: Pre-selected Style Using IP Address: 97.126.59.62</p>	<p>Sent: 11/21/2022 11:11:03 AM Viewed: 11/21/2022 2:49:57 PM Signed: 11/21/2022 2:51:09 PM</p>


Electronic Record and Signature Disclosure:
Not Offered via DocuSign

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:
Not Offered via DocuSign

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:
Not Offered via DocuSign

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

DocuSigned by:

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 Signed: 12/1/2022 11:16:47 AM


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:
 Not Offered via DocuSign

DocuSigned by:

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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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 Viewed: 12/2/2022 11:49:03 AM
 Signed: 12/2/2022 11:49:57 AM

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:

 E56491CF3DB34FA...
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Intermediary Delivery Events	Status	Timestamp
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Witness Events	Signature	Timestamp
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Notary Events	Signature	Timestamp
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