

**CITY OF LOVES PARK**

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**ORDINANCE NO: 3603-09**

**AN ORDINANCE AMENDING SECTIONS 18-67 AND 18-68  
OF THE CODE OF ORDINANCES OF THE  
CITY OF LOVES PARK, ILLINOIS, ADOPTING THE  
ELECTRICAL CODE, 2006 EDITION, AS PUBLISHED BY THE  
INTERNATIONAL CODE COUNCIL; AND THE NFPA 70:  
NATIONAL ELECTRICAL CODE, EDITION 2005**

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ADOPTED BY THE MAYOR AND CITY COUNCIL  
OF THE CITY OF LOVES PARK, ILLINOIS, THIS 21ST  
DAY OF DECEMBER, 2009

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Published in Pamphlet Form by  
Authority of the Mayor and City Council  
Of the City of Loves Park, Illinois, this 28th  
Day of December, 2009.

*Robert J. Burden*  
Robert J. Burden, City Clerk  
*by Shub K. Mills*

**ORDINANCE NO. 3603-09**

**AN ORDINANCE AMENDING SECTIONS 18-67 AND 18-68 OF THE CODE OF ORDINANCES OF THE CITY OF LOVES PARK**

WHEREAS, Section 18-67 of the Code of Ordinances of the City of Loves Park regulates electrical installations located within the City; and

WHEREAS, the City of Loves Park desires to ensure public safety in such installations; and

WHEREAS, the City desires to amend said section.

**NOW THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF LOVES PARK, WINNEBAGO COUNTY, ILLINOIS AS FOLLOWS:**

**SECTION ONE: Section 18-67 of the Loves Park City Code is hereby rescinded and replaced as follows:**

The Electrical Code, 2006 edition, as published by International Code Council; and the NFPA 70: National Electrical Code, 2005 edition, be and are hereby adopted as the *Electrical Code* of the City of Loves Park, in the State of Illinois, for regulating and governing the design, construction, quality of materials, erection, installation, repair, alteration, addition to, replacement, location and relocation, use or maintenance of electrical systems as herein provided; providing for the issuance of permits and collection of fees therefor; and each and all of the regulations, provisions, penalties, conditions and terms of said Electrical Code are hereby referred to, adopted, and made a part hereof, as if fully set out in this ordinance, with the additions, insertions, deletions and changes prescribed in Section Two of this ordinance. If one code contradicts another code, the most restrictive code shall be followed unless the less restrictive code is approved by the code official.

**SECTION TWO: Section 18-68 shall be rescinded and replaced as follows:**

**Section 18-68 Amendments, Deletions, and Additions to the Electrical Code, edition 2006, as published by the International Code Council:**

**Section 101.1 shall be amended as follows:**

**101.1. Title.** These regulations shall be known as the *Electrical Code--Administrative Provisions* of the City of Loves Park and shall be cited as such and will be referred to herein as "this code".

**Section 202 General Definitions additions:**

Add: **ELECTRICAL CONTRACTOR.** Whenever the term "electrical contractor" is used it shall mean any person, firm, or corporation undertaking the execution of electrical work or engaged in the business of installing or altering by contract electrical equipment for utilization of electricity, supplied for light, heat, or power, not including radio apparatus or equipment for wireless reception of sounds

and signals, not including apparatus, conductors and other equipment installed for or by public utilities, including common carriers, which are under the jurisdiction of the Illinois Commerce Commission for use in their operation as public utilities; the term "Electrical Contractor" does not include employees employed by such contractor to do or supervise such work, nor does it include homeowners who do their own work in their own home.

**Add: ELECTRICAL EQUIPMENT.** Whenever the term "electrical equipment" is used, it shall mean conductors and equipment installed for the utilization of electricity supplied for light, heat, or power, but does not include radio apparatus or equipment for the wireless reception of sounds and signals, and does not include apparatus, conductors, and other equipment installed for or by public utilities, including common carriers which are under the jurisdiction of the Illinois Commerce Commission, for use in their operation as public utilities.

**Section 401.3, 5. shall be amended as follows:**

**401.3 Work exempt from permit. 5.** Electrical wiring, devices, appliances, apparatus or equipment operating at less than 25 volts and not capable of supplying more than 50 watts of energy, unless the wiring is integral with fire alarms or temperature control systems involving fan shut down relays, smoke controls systems or duct smoke detectors.

**Section 401.3, 6. shall be added as follows:**

**401.3 Work exempt from permit. 6.** Installation of telephone or CATV wiring.

**Section 403.4 is deleted and replaced as follows:**

**403.4 Posting the permit.** The permit holder shall post the permit on the job site in a conspicuous place at all times, visible from the street, until the final inspection has been made and approved. The building official is authorized to impose a reinspection fee when the permit is not posted.

**Section 403.6, 1. shall be added as follows:**

**403.6 Information on the permit. 1.** Applications for permits shall state as least: name of applicant, street address of job (if impossible, exact location of building, lot number, side of street, and side streets between which building is located).

**Sections 403.7, 8. and 9 shall be added as follows:**

**403.7 Suspension or revocation.**

8. If there is an outstanding order to correct code violation.
9. If there have been previous permits issued for the same work.

**Section 404.2 is deleted in its entirety.**

**Section 404.3 shall be deleted and replaced with the following:**

**404.3 Work commencing before permit issuance.** When a permit is required by this code, and work is started or proceeded with, prior to obtaining said permit, the fees established in Section 108.2 shall be doubled and not less than \$250.00. This penalty may be waived by the building official if the person in violation has not obtained a permit in the last year and is the owner of the property. For the second offense within a twelve (12) month period, starting or proceeding with the work prior to obtaining a permit, the fees established in Section 108.2 shall be doubled and not less than \$500.00 plus an additional fee of \$500.00 shall be paid for each day work continued without said permit. For the third such instance within a twelve (12) month period, the fees established in Section 108.2 shall be tripled and not less than \$750.00 plus an additional fee of \$750.00 shall be paid for each day work continued without said permit. For the fourth such instance within a twelve (12) month period, the offender shall be prosecuted by the City of Loves Park Legal Department as permitted by state law. The payment of such fees shall not relieve any person from complying with the requirement of this code and the execution of the work, nor from any penalties prescribed herein.

**Section 501.2.3 shall be added as follows:**

**501.2.3 General.** Plans and specifications in sufficient detail shall be filed with the Building Official showing the location and capacity of all lighting facilities, electrically operated equipment and electrical circuits required for all service equipment of the building or structure except as may be modified by the code official. Whenever an electrical contractor will be the installer of electric heat in a room or in a building, and said heat is to be the principal source of heat for that room or building, the plans and heat loss (80% differential) shall be submitted to the building department before proceeding with the installation.

**Section 501.2.4 shall be added as follows:**

**501.2.4 Available Short Circuit Current Form.** An available short circuit current form will be required stating what the available short circuit current is at the transformer secondary, at the main disconnect line side, and at all sub-panels. The form shall be filled out and on file with the City of Loves Park Building Department before an inspection will be performed for an electrical service for commercial, industrial and, in some cases, residential buildings.

**Section 702.1.2.1 is added as follows:**

**702.1.2.1 Reinspection and testing.** Where any work or installation does not pass an initial test or inspection, the necessary correction shall be made so as to achieve compliance with this code. The contractor shall then request that the work or installation be reinspected or retested. The permit holder will be subject to a reinspection fee according to Section 18-28 of the Code of Ordinances of the City of Loves Park, for the first, and each additional, reinspection or test performed.

**Section 801.2 shall be amended as follows:**

**801.2 Temporary connections.** The code official shall have the authority to authorize the temporary connection of the building or system to the utility source of energy, fuel, or power with conditional certificate of approval for a reasonable time to supply and use current in part of an electrical installation before such installation has been fully completed and the final certificate of approval has been issued. (continued next page)

The part covered by the temporary certificate shall comply with all the requirements specified for temporary lighting, heat, or power in the 2005 National Electrical Code (NFPA 70). Such temporary

use permits are subject to discontinuance and complete revocation upon expiration, and to condemnation and revocation at any time during use.

**Section 18-69 shall be repealed and replaced as follows:**

**Section 18-69 Amendments, Additions and Deletions to the  
NFPA 70: National Electrical Code, 2005 Edition:**

**Article 210.4 (D) shall be added as follows:**

**210.4 Multiwire Branch Circuits. (D) Grouping.** The ungrounded and grounded conductors of each multiwire branch circuit shall be grouped by wire ties or similar means in at least one location within the panelboard or other point of origin, unless the conductors enter the enclosure in a cable assembly that only includes one grounded conductor to make the grouping obvious.

**Article 210.5 shall be amended as follows:**

**210.5 Identification for Branch Circuits. (C) Ungrounded Conductors.** Where the premises wiring system has branch circuits supplied from more than one nominal voltage system, each ungrounded conductor of a branch circuit, where accessible, shall be identified by phase and system. The means of identification shall be permitted to be by separate color coding, marking tape, tagging, or other approved means and shall be permanently posted at each branch-circuit panelboard or similar branch-circuit distribution equipment.

**Article 210.8(A)(1) and 210.8(B)(1) shall be amended as follows:**

**210.8 Ground-Fault Circuit Interrupter Protection for Personnel. (A) Dwelling Units. and (B) Other Than Dwelling Units. (1) Bathrooms.** Luminaires and fans installed within bathtub or shower zone (as described in 410.4(D)) shall be G.F.C.I. protected and testing lab approved for such use. At least one main lighting outlet in the bathroom, outside of the bathtub or shower zone, shall not be fed from the load side of any type of G.F.C.I. protection.

**Article 210.19(A)(5) shall be added as follows:**

**210.19 Conductors—Minimum Ampacity and Size. (A) Branch Circuits Not More Than 600 Volts. (5) Microwave Circuits.** The wiring used to supply power to the microwave oven shall consist of a minimum of #12 AWG conductors.

**Article 210.52 (C)(5) Receptacle Outlet Location. Exception shall be amended as follows:**

**210.52 Dwelling Unit Receptacle Outlets. (C) Countertops. (5) Receptacle Outlet Location.**

*Exception to (5): To comply with the conditions specified in (1) or (2), receptacle outlets shall be permitted to be mounted not more than 300 mm (12 inches) below the countertop. Receptacles mounted below a countertop in accordance with this exception or lower shall not be located where the countertop extends more than 150 mm (6 inches) beyond its support base.*

**Article 210.70(A)(1) shall be amended as follows:**

**210.70 Lighting Outlets Required. (A) Dwelling Units. (1) Habitable rooms.** At least one wall switch-controlled lighting outlet shall be installed in every habitable room and bathroom. The switch shall be installed at a point of entry to the room. Unless 210.70(A)(1) Exception No. 1 is applied, provision shall be made in the wiring of each ceiling box of all habitable rooms (excluding dining rooms) for a luminaire to operate independently from a fan.

**Article 210.70(A)(3) shall be amended as follows:**

**210.70 Lighting Outlets Required. (A) Dwelling Units. (3) Attics, Underfloor Spaces, Utility Rooms, Basements, and Equipment Spaces.** For attics, underfloor spaces, utility rooms, each area of an unfinished basement, and equipment spaces, at least one lighting outlet containing a switch or controlled by a wall switch shall be installed. At least one point of control shall be at the usual point of entry to these spaces. A lighting outlet shall be provided within six feet of any equipment requiring servicing.

**Article 210.70(C) shall be amended as follows:**

**210.70 Lighting Outlets Required. (C) Other Than Dwelling Units.** Delete “containing equipment requiring servicing, such as heating, air conditioning, and refrigeration equipment.”

**Article 220.14 shall be amended as follows:**

**220.14 Other Loads--All Occupancies.** In all occupancies, the minimum load for each outlet for general-use receptacles and outlets not used for general illumination shall not be less than that calculated in 220.14 (A) through (L), the loads shown being based on nominal branch-circuit voltages. No branch circuit shall serve over 10 receptacles.

**Article 230.11 shall be added as follows:**

**230.11 Service Modifications.** When any part of the service entrance equipment, branch circuit panel, or conductor is replaced, modified, or required to be repaired, the service in its entirety must be installed to comply with the current codes. The minimum number of poles allowed in a main branch circuit panel shall be 16.

**Article 230.43 shall be deleted and replaced as follows:**

**230.43 Wiring Methods for 600 Volts, Nominal, or Less.** Service-entrance conductors and service laterals overhead shall be installed in accordance with the applicable requirements of this *Code* covering the type of wiring method used and shall be limited to galvanized steel rigid or intermediate metal conduit, or rigid aluminum conduit. Electrical metallic tubing may be used inside a building or structure.

**Article 230.70 (A)(1) shall be amended as follows:**

**230.70 General. (A) Location. (1) Readily Accessible Location.** The service disconnecting means shall be installed at a readily accessible location either outside of a building or structure, or inside within 5 feet (1524 mm) of the point of entrance of the service conductors.

**Article 230.71(A) General. Exception: shall be added as follows:**

**230.71 Maximum Number of Disconnects. (A) General. Exception:** *All single-family dwellings will require a single main disconnect. If the combined service ampacity totals 200 amperes or more, two main disconnects will be permitted when grouped. Two-family dwellings will be limited to a maximum of three grouped main disconnects.*

**Article 240.24 (F) is added as follows:**

**240.24 Location in or on Premises. (F) Not Located Over Steps.** Overcurrent devices shall not be located over steps of a stairway.

**Article 250.56 shall be amended as follows:**

**250.56 Resistance of Rod, Pipe, and Plate Electrodes.** A single electrode consisting of a rod, pipe, or plate that does not have a resistance to ground of 25 ohms or less shall be augmented by one additional electrode of any of the types specified by 250.52(A)(2) through (A)(7). A report will be required if a single electrode is used outlining the equipment used to perform an ohm test, under what conditions the test was performed, and the results of the test. The responsible party must sign this document. Where multiple rod, pipe, or plate electrodes are installed to meet the requirements of this section, they shall not be less than 1.8 m (6 feet) apart.

**Article 250.94 is deleted and replaced as follows:**

**250.94 Bonding for Other Systems.** An intersystem bonding termination for connecting intersystem bonding and grounding conductors required for other systems shall be provided external to enclosures at the service equipment and at the disconnecting means for any additional building or structures. The intersystem bonding termination shall be accessible for connection and inspection. The intersystem bonding termination shall have the capacity for connection of not less than three intersystem bonding conductors. The intersystem bonding termination device shall not interfere with opening a service or metering equipment enclosure. The intersystem bonding termination shall be one of the following:

- (1) A set of terminals securely mounted to the meter enclosure and electrically connected to the meter enclosure. The terminals shall be listed as grounding and bonding equipment.
- (2) A bonding bar near the service equipment enclosure, meter enclosure or raceway for service conductors. The bonding bar shall be connected with a minimum 6 AWG copper conductor to an equipment grounding conductor(s) in the service equipment enclosure, meter enclosure or exposed nonflexible metallic raceway.
- (3) A bonding bar near the grounding electrode conductor. The bonding bar shall be connected to the grounding electrode conductor with a minimum 6 AWG copper conductor.

**Article 300.1(D) shall be added as follows:**

**300.1 Scope. (D) Mixed Use and Occupancy Buildings.** The entire mixed use and occupancy building shall be wired by the most restrictive code.

**Article 300.4 (G) shall be added as follows:**

**300.4 Protection Against Physical Damage. (G) Cables and Raceways Installed Under Roof Decking.** A cable- or raceway-type wiring method installed in exposed or concealed locations under

metal-corrugated sheet roof decking, shall be installed and supported so the nearest outside surface of the cable or raceway is not less than 38 mm (1 1/2 inch) from the nearest surface of the roof decking.

*(continued on next page)*

Exception: Rigid metal conduit and intermediate metal conduit installations shall be exempt from this requirement.

**Article 300.5 (D) (3) shall be amended as follows:**

**300.5 Underground Installations. (D) Protection from Damage (3) Service Conductors.**

Underground service conductors shall be installed in galvanized rigid metal or intermediate metal conduit. Underground service conductors that are not subject to physical damage may be installed in Schedule 80 rigid electrical nonmetallic conduit, protected by galvanized steel rigid or intermediate metal conduit, or aluminum rigid conduit to a minimum of 450 mm (18 inches) below grade. No exposed nonmetallic conduit shall be allowed. Underground service conductors that are not encased in concrete and that are buried 450mm (18 inches) or more below grade shall have their location identified by a warning ribbon that is placed in the trench at least 300 mm (12 inches) above the underground installation.

**Article 300.11(A)(3) shall be added as follows:**

**300.11 Securing and Supporting. (A) Secured in Place. (3) Tie Wire.** Tie wire shall not be allowed as a sole means of supporting or securing conduit or cable in above ground applications.

**Article 300.13(C) shall be added as follows:**

**300.13 Mechanical and Electrical Continuity--Conductors. (C) Multiple Grounded Conductors.**

When more than two grounded conductors from a common circuit enter a box, they must be spliced together, with a single wire added (if applicable) to connect to the device.

**Article 300.13(D) shall be added as follows:**

**300.13 Mechanical and Electrical Continuity-Conductors. (D) Push-Type Clamping Devices.**

No push-type or clamp-type connections for splices or devices will be allowed unless the wire connection is secured with a screw or crimping tool.

**Article 310.2(B) shall be amended as follows:**

**310.2 Conductors. (B) Conductor Material.** Conductors in this article shall be aluminum, copper-clad aluminum, or copper unless otherwise specified. Aluminum and copper-clad aluminum conductors shall not be smaller than 2 AWG.

**Article 310.15 (B) (2) (c) is added as follows:**

**310.15 Ampacity for Conductors Rated 0-2000 Volts. (B) Tables. (2) Adjustment Factors.**

*(c) Conduits exposed to Sunlight on Rooftops.* Where conductors or cables are installed in conduits exposed to direct sunlight on or above rooftops, the adjustments shown in Table 310.15 (B) (2) (c) shall be added to the outdoor temperature to determine the applicable ambient temperature for application of the correction factors in Tables 310.16 and 310.18.

Table 310.15 (B) (2) (c) shall be added as follows:

**Table 310.15 (B) (2) (c) Ambient Temperature Adjustment for Conduits Exposed to Sunlight On or Above Rooftops**

<u>Distance Above Roof to Bottom of Conduit</u>	<u>Temperature Adder</u>	
	C°	F°
<b>0 through 13 mm (1/2 inch)</b>	<b>33</b>	<b>60</b>
<b>Above 13 mm (1/2 inch) – 90 mm (3 1/2 Inches)</b>	<b>22</b>	<b>40</b>
<b>Above 90 mm (3 1/2 Inches) – 300 mm (12 inches)</b>	<b>17</b>	<b>30</b>
<b>Above 300 mm (12 inches) – 900 mm (36 inches)</b>	<b>14</b>	<b>25</b>

Article 314.27(B) shall be amended as follows:

**314.27 Outlet Boxes. (B) Maximum Luminaire (Lighting Fixture) Weight.** Outlet boxes or fittings installed as required by 314.23 shall be permitted to support luminaires (lighting fixtures) weighing 23 kg (50 lb) or less. A luminaire (lighting fixture) that weighs more than 23 kg (50 lb) shall be supported independently of the outlet box unless the outlet box is listed for the weight to be supported. In all habitable rooms with a ceiling fixture (other than recessed fixtures), a box rated for ceiling fan support shall be installed.

**Article 334.10 including (1) through (4) shall be deleted and replaced as follows:**

**334.10 Uses Permitted.** Type NM, Type NMC, and Type NMS shall be permitted only in R-3 structures (as defined by the International Building Code) not exceeding three floors above grade.

Article 334.12 (A) (1) is deleted and replaced as follows:

**334.12 Uses Not Permitted. (A) Types NM, NMC, and NMS. (1)** In any dwelling or structure not specifically permitted in 334.10. The “uses not permitted” includes any building that “shall meet the requirements for construction as defined for Group R-3”, but is classified as other than Group R-3.

Article **334.15(D)** shall be added as follows:

**334.15 Exposed Work. (D) All Unfinished Areas.** Any exposed cable 2134 mm (7 feet) or closer to the floor must be protected with a durable building material or sleeved in an approved manner.

**Article 334.40 (B) shall be deleted in part:**

**334.40 Boxes and Fittings. (B) Devices of Insulating Material.** Delete “and for rewiring in existing buildings where the cable is concealed and fished”

**Article 348.12 (1) shall be deleted in part:**

**348.12 Uses Not Permitted. (1)** Delete “unless the conductors are approved for the specific conditions and the installation is such that liquid is not likely to enter raceways or enclosures to which the conduit is connected”

**Article 358.30 is added as follows:**

**358.30 Securing and Supporting. (C) Unsupported raceways.** Where oversized, concentric or eccentric knockouts are not encountered, EMT shall be permitted to be unsupported where the raceway is not more than 450 mm (18 inches) and remains in unbroken lengths (without a coupling). Such raceways shall terminate in an outlet box, junction box, device box, cabinet, or other termination at each end of the raceway.

**Article 410.16(C) shall be amended as follows:**

**410.16 Means of Support. (C) Suspended ceiling.** Framing members of suspended ceiling systems used to support luminaires (fixtures) shall be securely fastened to each other and shall be securely attached to building structure at appropriate intervals. Luminaires (fixtures) smaller than 610 mm by 610 mm (24 inches by 24 inches) shall be securely fastened to the ceiling-framing member by mechanical means such as bolts, screws, rivets, or steel wire. Listed clips identified for the use with the type of ceiling framing members(s) and luminaire(s) [fixture(s)] shall also be permitted. Fluorescent fixtures 610 mm by 610 mm (24 inches by 24 inches) or larger shall be supported independently of the ceiling grid by at least two wires on opposite corners of the fixture. The same size (or larger) wire used to support the ceiling system shall be used to support the fixture, but in no case shall the wire size be smaller than size No. 12 AWG steel.

**Article 440.14 shall be amended as follows:**

**440.14 Location.** Disconnecting means shall be located within sight from and readily accessible from the air-conditioning or refrigerating equipment. The disconnecting means shall be permitted to be installed on or within the air-conditioning or refrigerating equipment. Internal disconnects will not be approved unless factory installed. The disconnecting means shall not be located on panels that are designed to allow access to the air-conditioning or refrigeration equipment.

**Article 514.8 shall be amended as follows:**

**514.8 Underground Wiring.** *Exceptions No. 1 and No. 2* are hereby deleted.

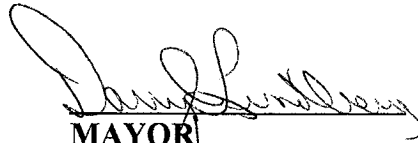
**SECTION THREE:** The Provisions and Sections of this Ordinance shall be deemed severable, and the invalidity of any portion of this Ordinance shall not affect the validity of the remainder.

**SECTION FOUR:** All ordinances, resolutions, or parts of ordinances in conflict herewith are hereby repealed.

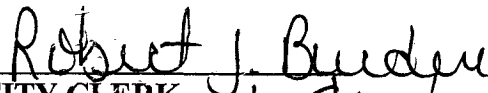
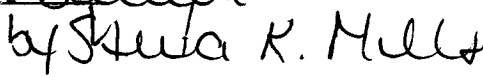
**SECTION FIVE:** This ordinance shall be in full force and effective on January 1, 2010.

**SECTION SIX:** A full, true, and complete copy of this Ordinance shall be published within 10 days after its passage in pamphlet form by and under the authority of the Corporate Authorities.

**APPROVED:**

  
**MAYOR**

**ATTEST:**

  
**CITY CLERK** by 

**PASSED: Decmeber 21, 2009, 10 Ayes (Aldermen Holmes, Brinker, Novak, Owens, Jacobson, Jury, Little, Pruitt, Frykman, Peterson)**

**APPROVED: December 28, 2009**

**PUBLISHED: In pamphlet form December 28, 2009 as required by Ordinance.**