

ORDINANCE NO. _____

1 AN ORDINANCE amending Chapter 23.10 of the Lincoln Municipal Code (LMC),
2 the Lincoln Electrical Code, to adopt the 2011 National Electrical Code (NEC), as specifically
3 amended by Chapter 23.10 of the LMC, by amending Section 23.10.010 to adopt the 2011 edition
4 of the National Electrical Code; amending Section 23.10.070 relating to bypassing electric revenue
5 meters; amending Section 23.10.120 to increase the fee for review of a decision of the Building
6 Official; amending Section 23.10.140 relating to permits to change references from “homeowners”
7 to “non-licensed applicants” and to delete references to specific NEC articles; amending Section
8 23.10.150 relating to permit requirements to change a reference from “permittee” to “permit holder”;
9 amending Section 23.10.160 relating to installations by non-licensed applicants; amending Section
10 23.10.190 relating to requests for inspections; amending Section 23.10.195 to clarify that an electric
11 revenue meter installed in the regular meter socket and left unsealed shall be considered a temporary
12 use of electrical energy under this section; amending Section 23.10.200 to delete the requirement
13 that the expiration date of the City registration of a state license be recorded on the state license;
14 amending Section 23.10.220 to increase examination and registration fees; repealing Section
15 23.10.280 relating to wiring of temporary construction walkways; amending Section 23.10.290
16 relating to installation standards and approved wiring methods; amending Section 23.10.300 relating
17 to services, disconnects, sub-feeders and metering requirements; amending Section 23.10.520 to
18 provide permits shall be valid for a period of 90 days and to increase permit fees; and repealing
19 Sections 23.10.010, 23.10.070, 23.10.120, 23.10.140, 23.10.150, 23.10.160, 23.10.190, 23.10.195,
20 23.10.200, 23.10.220, 23.10.290, 23.10.300 and 23.10.520 of the Lincoln Municipal Code as
21 hitherto existing.

22 BE IT ORDAINED by the City Council of the City of Lincoln, Nebraska:

23 Section 1. That Section 23.10.010 of the Lincoln Municipal Code be amended to
24 read as follows:

1 **23.10.010 Adoption of the National Electrical Code, ~~2008~~ 2011 Edition.**

2 Except as hereinafter provided by specific changes, the National Electrical Code (~~2008~~ 2011
3 edition), hereinafter the National Electrical Code, sponsored by the National Fire Protection
4 Association under the auspices of the American National Standards Institute is hereby adopted.
5 Three printed copies of this document have been filed in the office of the Director of Building and
6 Safety of the City of Lincoln for the use of and examination by the public. The City Clerk shall
7 maintain one printed copy of this document, in book form, with the official records of the city.

8 Section 2. That Section 23.10.070 of the Lincoln Municipal Code be amended to
9 read as follows:

10 **23.10.070 Bypassing Electric Revenue Meters.**

11 (a) Any person, firm, or corporation who by-passes the electric revenue meter shall be
12 deemed in violation of this code. Proper metering and overcurrent protection shall be installed
13 immediately or the service entrance conductors shall be disconnected.

14 (b) It shall be deemed a violation of this code for any person, firm, or corporation to tap
15 any metered conductor of another for the purpose of theft of power.

16 (c) It shall be unlawful for any seller of electric ~~current~~ power to continue to sell electric
17 ~~current~~ power to any person, firm, or corporation described in subsection (a) above, unless the
18 required service equipment and meter are installed as provided therein.

19 Section 3. That Section 23.10.120 of the Lincoln Municipal Code be amended to
20 read as follows:

21 **23.10.120 Appeals From Decision, Notice, or Order of Building Official.**

22 (a) Any person who is aggrieved by a decision, notice, or order of the Building Official
23 under this code may appeal such decision to the Electrical Board by filing such appeal within thirty

1 days from the date of such decision. Upon request, the Building Official shall furnish such
2 aggrieved person with an appeal form, which, upon completion and filing within the prescribed time
3 and payment of the prescribed fee, shall be sufficient for the purpose of commencing an appeal
4 proceeding hereunder.

5 (1) A ~~\$20.00~~ \$100.00 fee for review of a decision of the Building Official
6 interpreting a provision or provisions of this code;

7 (2) A ~~\$40.00~~ \$100.00 fee for review of a decision of the Building Official
8 concerning the suitability of alternate materials or types of installation.

9 (b) The Building Official shall refer all properly and timely filed appeals to the Electrical
10 Board for hearing. The secretary of said board shall in each appeal notify the appellant in writing
11 of the date, time, and place of hearing before the board, which date shall be no later than thirty days
12 from the filing of the appeal. Such notice shall be served upon the appellant by personal service or
13 registered mail.

14 (c) Hearings on appeal need not be conducted according to technical rules relating to
15 evidence and witnesses. Oral evidence shall be taken only on oath or affirmation. Any relevant
16 evidence shall be admitted if it is the type of evidence upon which responsible persons are
17 accustomed to rely in the conduct of serious affairs, regardless of the existence of any common law
18 or statutory rule which may make improper the admission of such evidence over objection in civil
19 actions in courts of competent jurisdiction in this state. Irrelevant and unduly repetitious evidence
20 shall be excluded. The appellant, the board members, the Building Official, and any other party to
21 an appeal hereunder shall have these rights, among others:

22 (1) To call and examine witnesses on any matter relevant to the issues of the
23 hearing:

- 1 (2) To introduce documentary and physical evidence;
- 2 (3) To cross-examine opposing witnesses on any matter relevant to the issues of
- 3 the hearing; and
- 4 (4) To rebut evidence.

5 (d) The Electrical Board shall then within a reasonable time after the hearing render a
6 written decision which shall state its findings and conclusions. Decisions of the Electrical Board
7 may be appealed as provided by law.

8 (e) Enforcement of any decision, notice, or order of the Building Official issued under
9 this code shall be stayed during the pendency of an appeal therefrom which is properly and timely
10 filed, except in cases of emergency, where enforcement of the same is necessary for the protection
11 of persons or property.

12 Section 4. That Section 23.10.140 of the Lincoln Municipal Code be amended to
13 read as follows:

14 **23.10.140 Permits Required.**

15 (a) No person, firm, or corporation other than a registered master electrician,
16 journeyman, or apprentice of an electrical contracting company, registered maintenance electricians,
17 or ~~homeowners~~ non-licensed applicants under certain conditions set forth in Section 23.10.160 shall
18 install, alter, or add to any electrical equipment, and no such installation, alteration or addition shall
19 be made without first obtaining a permit therefor from the Building Official. Permits may be issued
20 only to registered master electricians, registered maintenance electricians, and ~~homeowners~~ non-
21 licensed applicants in accordance with Section 23.10.160.

22 EXCEPTION: Licensed State of Nebraska fire alarm installers registered with the City of
23 Lincoln may be issued permits for the installation of the low voltage portion of fire alarm systems.

1 (b) No permit, license, or registration shall be required to execute any of the classes of
2 electrical work as follows:

3 (1) Routine maintenance requiring the repair or replacement of existing electrical
4 apparatus and equipment of the same size and type for which no changes in wiring are made. The
5 replacement of permanently wired fixed-in-place appliances including, but not limited to, furnaces,
6 air conditioners, garbage disposals, dishwashers and water heaters shall not be considered as routine
7 maintenance and shall be subject to permit requirements.

8 (2) The installation, alteration, or repair of electrical equipment for the operation
9 of signals or the transmission of intelligence by wire.

10 EXCEPTION: The requirements of Article NEC 300.22 shall apply to such wiring.

11 (3) The installation, alteration, or repair of electrical equipment installed by or
12 for an electricity supply agency for the use of such agency in the generation, transmission,
13 distribution, or metering of electricity.

14 (4) Installation, alteration, or repair made to electrical equipment, where such
15 equipment operates at a voltage not exceeding fifty volts, except emergency alarm systems and other
16 installations specifically referred to in this code. Regardless of operating voltage, all conductors of
17 any system shall comply with the requirements of NEC Article 300.22. This shall not be construed
18 as preemption of National Electrical Code Requirements for low voltage systems ~~such as those~~
19 ~~found in NEC Articles 411, 480, and Chapters 5, 6, 7, and 8.~~

20 (5) Repairs made by and within the authority granted to the holders of
21 maintenance registrations as provided in this code.

1 (6) Any work involved in the manufacture, test, or repair of electrical materials,
2 devices, appliances, or apparatus, but not including any permanent wiring other than that required
3 for testing purposes.

4 (7) Repair or replacement of motors on fixed approved appliances of the same
5 type and rating in the same location.

6 (8) The adjustment, repair, or maintenance of appliances designed to consume
7 natural or artificial gas, fuel oils, or coal; provided, this exception shall not permit the replacement
8 of an existing motor with one of a different rating.

9 The exceptions enumerated above shall not be construed to exempt any
10 person, firm, or corporation from compliance with the standards prescribed by this code for the
11 installation of electrical equipment, or from inspection as provided herein.

12 (c) Electrical equipment installed and/or connected to a source of electrical power by a
13 nonregistered person or a registered person or ~~homeowner~~ non-licensed applicant without a permit,
14 or causing a registered or nonregistered person to install and/or connect electrical equipment to a
15 source of electrical power in violation of the provisions of the ordinance shall constitute a violation
16 of this code and be subject to the penalty of Section 23.10.090 of this code.

17 Section 5. That Section 23.10.150 of the Lincoln Municipal Code be amended to
18 read as follows:

19 **23.10.150 Issuance of Permit.**

20 Applications for permits to install, alter, or add to electrical equipment shall be on forms
21 furnished for that purpose by the Building Official and shall contain all information necessary to the
22 lawful enforcement of the provisions of this code. Each application shall be accompanied by such
23 plans and specifications as are required by the Building Official to determine that the work proposed

1 conforms to the requirements of this code. The approval of any plans and/or specifications shall not
2 be construed to sanction any violation of this code.

3 When the Building Official determines that the information on an application is in
4 conformance with this code, the Building Official shall issue a permit upon receipt of the permit fees
5 hereinafter prescribed. No ~~permittee~~ permit holder shall deviate materially from any approved plans
6 or specifications or fail, neglect, or refuse to comply therewith, unless permission to do so has been
7 obtained from the Building Official or an authorized representative.

8 The issuance of a permit based upon plans and specifications shall not prevent the Building
9 Official from thereafter requiring the correction of errors in said plans and specifications or
10 preventing the initiation or continuance of work thereunder when in violation of this code or any
11 other ordinance.

12 Section 6. That Section 23.10.160 of the Lincoln Municipal Code be amended to
13 read as follows:

14 **23.10.160 Installation by Non-Licensed Applicants (Homeowners).**

15 ~~Individuals~~ Non-licensed applicants may install electrical branch circuit and feeder wiring
16 only, in a stand alone detached single family dwelling which they own and occupy as their principal
17 residence. This shall include any ancillary structures located on the same property.

18 The electrical branch circuit and feeder wiring for the following shall not be allowed to be
19 installed by Non-Licensed applicants:

20 (1) Swimming pools, hot tubs, and similar equipment, including all associated
21 components. Where a building permit is required to accommodate the installation of said equipment
22 all electrical wiring associated with the permitted work must be installed and completed by an
23 electrical contractor.

1 EXCEPTION: Hydro-massage bathtubs for residential use as referenced in article
2 680 of the National Electrical Code.

3 (2) Alternate or standby energy systems such as generators, wind, photovoltaic, fuel
4 cell, or any other electrical energy producing system that is intended to use any part of a premise
5 wiring system, or a utility connection for the transfer of the electrical energy produced by such
6 systems.

7 (3) Electrical wiring and equipment for all home based businesses and occupations
8 such as those allowed or defined in accordance with Chapter 27 of the Lincoln Municipal Code.

9 NOTE: Branch circuit and feeder wiring allowed under this section does not include service
10 equipment. Non-licensed applicants shall not perform upgrades, replacements, or repairs of this
11 type.

12 ~~All~~ Electrical wiring installed by homeowners non-licensed applicants shall be for
13 themselves, without compensation or pay from or to any other person for such labor or installation.
14 Such installation by a ~~homeowner~~ non-licensed applicant shall comply with the requirements of this
15 code, and ~~the homeowner~~ said applicant in exercising this privilege shall not constitute or be
16 considered as an electrical contractor. The ~~homeowner~~ applicant shall be required to ~~file plans~~, dem-
17 onstrate knowledge of code requirements, apply for and secure a permit, pay the required permit fees
18 for non-licensed applicants in accordance with Section 23.10.520 of this code, and call for all
19 inspections in the manner provided by this code.

20 The Department of Building and Safety Electrical Section may deny the issuance of electrical
21 permits to ~~homeowners~~ non-licensed applicants under any one of the following circumstances:

22 (a) There is reason to believe the proposed electrical work will be done by someone other
23 than the ~~owner~~ non-licensed applicant;

1 (b) There is reason to believe the property is or will be sold on the completion of the
2 electrical work. For the purposes of this subsection (b) there is a rebuttable presumption that the
3 property is or will be sold on the completion of the electrical work if the applicant, within the prior
4 five years, has sold his or her home and the electrical work for said home was performed by the
5 applicant under a ~~homeowner's~~ non-licensed permit.

6 (c) Previous ~~homeowner electrical~~ non-licensed permits have not been completed in
7 compliance with this code;

8 (d) The ~~owner~~ non-licensed applicant is temporarily residing in the home.

9 If ~~the homeowner~~ a non-licensed applicant is found to have at any time violated or falsified
10 any of the above items, they shall immediately cease all electrical work, forfeit the ~~homeowner's~~
11 non-licensed permit, and obtain a registered electrical contractor to complete the electrical work in
12 compliance with the code.

13 Appointments for required inspections ~~shall not be made with the exception that inspection~~
14 ~~requests may be scheduled for a given day. The inspection shall be performed on the day requested~~
15 ~~by the homeowner. The homeowner, may be requested between the hours of 9:00 am and 3:30 pm;~~
16 however, if the requested appointment time is unable to be accommodated, Building and Safety staff
17 will contact the non-licensed applicant to re-schedule the inspection. The applicant, if unable to be
18 present during the normal working hours of a day, shall be required to supply a key or other means
19 of access for the inspection to be performed. ~~Homeowners may be granted one reinspection per~~
20 ~~permit without reinspection fee charge. Further reinspections will require payment of the reinspec-~~
21 ~~tion fee provided for in the electrical permit fee schedule.~~

22 Section 7. That Section 23.10.190 of the Lincoln Municipal Code be amended to
23 read as follows:

1 **23.10.190 Inspections, Request for.**

2 Inspections of the installation, alteration, repair, or addition to electrical equipment required
3 under the provisions of this code shall be requested by the person, firm, corporation or authorized
4 representative of the person holding the permit for such work. ~~The Building Official may require~~
5 ~~that every request for inspection be filed at least one working day before the inspection is desired.~~
6 Such request may be in writing, by electronic transmission, or by telephone, at the option of the
7 ~~Building Official. Requests shall be made in accordance with all procedures for inspection requests~~
8 as established by the Department of Building and Safety. All requests for inspection must include
9 the permit number, electrical contractor or non-licensed applicant's name, address and suite number,
10 if applicable, and means of access. Appointments for required inspections shall not be made with
11 the exception that inspection requests may be scheduled for a given day. It shall be the duty of the
12 person requesting inspection of electrical equipment to provide access to and a means for proper
13 inspection of such equipment. The person requesting final inspection shall determine that the
14 electrical equipment is operational before requesting such final inspection. In the event ~~that the~~
15 ~~registered master electrician or registered maintenance electrician, identified under Section~~
16 ~~23.10.140 as authorized to take out a permit,~~ electrical permit holder is intending for the owner of
17 the property to request a final inspection, ~~said registered master electrician or registered maintenance~~
18 ~~electrician~~ the permit holder shall provide the owner of the property with information on requesting
19 a city inspection. The owner of the property shall have the duty of requesting the final inspection
20 and providing access and a means for proper inspection.

21 Section 8. That Section 23.10.195 of the Lincoln Municipal Code be amended to
22 read as follows:

1 **23.10.195 Inspections, Procedures.**

2 Pursuant to Section 23.10.170:

3 (a) No portion of any electrical equipment intended to be concealed by any permanent
4 portion of a building including thermal insulation shall be concealed until inspected and/or approved
5 by the Building Official. When the installation, alteration, or addition to any electrical equipment
6 is complete, a final inspection shall be made. Failure of the contractor to schedule and request such
7 final inspection shall be reason for withholding the issuance of further permits.

8 (b) When the electrical inspector finds an installation to not be in compliance with this
9 code, the inspector shall issue a correction order. The correction order shall be issued to the person,
10 firm, or corporation holding the permit for the work. The order shall specify a date, not more than
11 fifteen calendar days from the date of the order, when a final inspection shall be made. If required
12 corrections have not been completed, or access to complete the inspection has not been provided,
13 a reinspection fee shall be levied and arrangements shall be made to complete the work. If at the
14 time of final inspection the installation has not been brought into compliance, a disconnection order
15 may be issued by the Building Official.

16 (c) The requirements of this section shall not be considered to prohibit the temporary use
17 of electrical energy for electric wiring, before final approval thereof when so authorized by the
18 Building Official and with such restrictions upon such temporary use as may be necessary to ensure
19 safety, secure compliance with all other provisions of this code, and facilitate inspection.

20 An electric revenue meter installed in the regular meter socket and left unsealed shall
21 be considered a temporary use of electrical energy under this section.

1 The temporary use of electrical energy may be ordered discontinued and the supply
2 disconnected upon notice to the user by the Building Official. No temporary use of electrical energy
3 shall be permitted in any case where a hazard to persons or property would be created.

4 (d) A final inspection certificate of approval may, upon notice, be revoked by the
5 Building Official if it is found that the electrical equipment fails in any respect to comply with the
6 requirements of this code, or that the installation is unsafe to persons or property. Corrections not
7 made and approved by the Building Official in the allotted time shall be grounds for withholding
8 further permits until corrections are made and approved by the Building Official.

9 Section 9. That Section 23.10.200 of the Lincoln Municipal Code be amended to
10 read as follows:

11 **23.10.200 Registration of City and State Electricians of All Classes.**

12 (a) No person, firm, or corporation shall install, alter, or add to any electrical equipment,
13 except such installations as are described in Section 23.10.160 within the corporate limits of the City
14 of Lincoln and three miles thereof without first being registered to do so as hereinafter provided.
15 Work done by employees of and for the holders of maintenance registrations pursuant and within
16 the scope of work permitted by such registration shall be deemed to be in compliance with this
17 section.

18 (b) Application for registration as a City licensed master electrician, journeyman
19 electrician, maintenance electrician, or electrician's apprentice shall be made to the Building Official
20 on a form furnished by the Building Official for such purpose. Such form shall require the name,
21 address, and telephone number of the applicant, a statement of the practical experience of the appli-
22 cant, and such other relevant information as may be required by the Building Official.

1 (c) Persons holding State of Nebraska Class A or State of Nebraska equivalent Electrical
2 Contractor Licenses, Master Electrician Licenses, Journeyman Electrician Licenses, State
3 Apprentice Licenses, or State Fire Alarm Installer Licenses shall register their state license either
4 annually or biennially and submit the insurance certificate herein required annually with the
5 Building Official before performing any electrical work covered by this code. No electrical permits
6 shall be issued to any state license holder until such registration and insurance certificate are
7 approved. A registration fee in accordance with the combined fee and price schedule shall
8 accompany all applications for registration. State electrical licenses, except those five mentioned
9 above, will not be recognized by the City of Lincoln as being in compliance with this code. City
10 registrations of State licenses shall expire (1) when the State license expires, or (2) when the twelve
11 month term of registry is over, whichever comes first. ~~This expiration date shall be recorded on the~~
12 ~~State license.~~

13 (d) Automatic registration. Any master electrician, State Class A license holder,
14 journeyman electrician, maintenance electrician, electrician's apprentice, or state fire alarm installer
15 duly registered at the time of the adoption of this code shall be automatically registered in the same
16 classification under the provisions of this code, without further examination. Approved documenta-
17 tion of six contact hours of continuing education per year shall be presented to renew all
18 registrations other than apprentice.

19 (e) A valid registration or license of one or more of the classifications listed above shall
20 be carried at all times while work is being executed. Any person checked and found to not be in
21 possession of such license shall be deemed in violation of this code, and shall immediately cease
22 work and obtain said license prior to engaging in further electrical installation.

1 (f) Registered electrical contractors may employ or supervise, or provide journeyman
2 supervision for apprentice electricians at a ratio not to exceed three apprentice electricians to one
3 licensee.

4 Section 10. That Section 23.10.220 of the Lincoln Municipal Code be amended to
5 read as follows:

6 **23.10.220 Examination and Registration Fees.**

7 Each applicant for a City electrical examination of any class shall pay an examination fee
8 of ~~fifty dollars~~ \$100.00.

9 Upon initial issuance or subsequent annual renewal of a city registration certificate, a
10 registration fee shall be paid as follows:

11	Master electrician registration fee	\$ 60.00 <u>100.00</u>
12	State Fire Alarm Installer registration fee	\$ 60.00 <u>100.00</u>
13	Journeyman electrician registration fee	\$ 20.00 <u>25.00</u>
14	Maintenance electrician registration fee	\$100.00
15	Electrician's apprentice registration fee	\$ 12.00 <u>15.00</u>

16 Section 11. That Section 23.10.280 of the Lincoln Municipal Code be and the same
17 is hereby repealed.

18 ~~**23.10.280 Wiring of Temporary Construction Walkways.**~~

19 ~~Temporary construction walkways shall be wired in metallic or nonmetallic conduit, except~~
20 ~~wood constructed temporary walkways may be wired with nonmetallic sheath cable or electrical~~
21 ~~nonmetallic tubing when the wiring will be concealed within the walls and ceiling of the structure.~~

22 Section 13. That Section 23.10.290 of the Lincoln Municipal Code be amended to read
23 as follows:

1 **23.10.290 Installation Standards and Approved Wiring Methods.**

2 (a) Approved metallic conduit, nonmetallic conduit, electric nonmetallic tubing,
3 manufactured wiring systems specifically approved by the authority having jurisdiction, and
4 approved wireway or cable tray shall be used in the installation of all electrical equipment in or on
5 all other buildings, structures, tents, and premises than those enumerated in subsection (b) of this
6 section. All wiring methods shall be electrically and mechanically continuous and shall incorporate
7 a separate conductor for the purposes of equipment grounding. The above wiring methods shall also
8 be acceptable for those occupancies listed in subsection (b) of this section. Flexible metal conduit
9 may be used for fished-in connections, where flexibility or sound isolation is required and for
10 extensions of approved raceway systems where their installation is not possible because of building
11 requirements. Flexible metal conduit shall not be used as a general wiring method. ~~All flexible
12 metal or liquid-tight flexible metal raceways shall incorporate an equipment grounding conductor.
13 Plastic fiber ducts and strips may be used for surface extensions.~~

14 It is the intent of this section to require a substantial, approved raceway system in which
15 conductors may be installed.

16 EXCEPTION (1): Fire alarm systems of fifty volts or less and installed in accordance with
17 NEC Article 760 shall not be required to be installed in a conduit system, except if required to
18 comply with NEC Article 300.22.

19 (b) Nonmetallic sheathed cable may be used for the installation of all concealed electrical
20 equipment within the following buildings:

21 (1) Single-family dwellings and associated outbuildings on the same property.;

22 ~~(2) Private garages which are used in connection with single family dwellings;~~

1 ~~(3) Outbuildings used in connection with a private dwelling, such as tool houses,~~
2 ~~hobby shops, and similar structures;~~

3 (4 2) Buildings now wired with metallic protected wiring which will be used in the
4 future for dwelling purposes only.

5 (5 3) Multi-family dwellings (apartment houses) where each dwelling unit within such
6 structure has individual distribution panels located in each unit; however, all feeders or subfeeders
7 to each unit shall be installed in rigid metal conduit, intermediate metal conduit, electrical metallic
8 tubing, or rigid nonmetallic conduit.

9 EXCEPTION: In existing structures only, service equipment and sub-panels may be located
10 in a common area accessible to all occupants, provided individual dwelling unit home runs are
11 routed in a raceway between the sub-panel and the unit.

12 A mounted or free standing microwave unit shall not be considered permanent provisions
13 for cooking as required to meet the definition of dwelling unit.

14 The word “concealed” as used in this section shall mean protected from mechanical injury
15 by being installed between or through holes bored in rafters, studding, floor joists, or being fished
16 in the air voids in masonry walls or partitions of buildings.

17 (c) Electrical Metallic Tubing (EMT) shall not be used for direct earth burial. Where
18 metallic raceways are installed in direct earth contact they shall incorporate either PVC coating or
19 asphaltum protection.

20 (d) Branch circuit or feeder conductors No. 6 and smaller where installed within structures
21 shall be copper.

22 (e) Alternate energy sources:

1 (1) Systems capable of co-generation or grid tie; prior to the installation of these
2 systems, plans and specifications for such shall be submitted to and approved by the Electrical
3 Section of the Department of Building and Safety and the power supplier. Persons wishing to install
4 such equipment should first contact their power supplier.

5 (2) For all other systems; plans and specifications need not be submitted prior to the
6 installation of said equipment. Such installations shall be subject to all applicable requirements
7 contained in this code. Prior to the installation of any electrical generating equipment, whether or
8 not said equipment is capable of co-generation, plans and specifications for such shall be submitted
9 to and approved by the Building Official and the power supplier. These installations shall not be
10 performed by individuals applying for a permit under Section 23.10.160.

11 ~~————— NOTE: Persons wishing to install such equipment should first contact their power~~
12 ~~supplier and the City of Lincoln Department of Building and Safety.~~

13 ~~Two permanent plaques shall be installed, one at the main disconnect for the normal~~
14 ~~power supply and one at the meter location of the power supplier stating the location of the~~
15 ~~disconnecting means for the alternate energy source. These systems and their components shall not~~
16 ~~be installed by persons applying for a permit under Section 23.10.160 of this code.~~

17 (f) For the purpose of conductor continuity the phase, grounded, and grounding conductors
18 shall not be dependent upon device connections such as lamp holders, receptacles, etc.

19 ~~(g) All electrical equipment located within six feet horizontally, to a maximum of eight feet~~
20 ~~vertically above a hydromassage bathtub shall be GFCI protected for personnel. All pool, hot tub,~~
21 ~~and associated equipment shall also have GFCI protection for personnel.~~

22 ~~(h) All luminaires installed over tub and shower spaces up to a maximum of eight feet~~
23 ~~above the bathtub rim or shower threshold shall be GFCI protected for personnel.~~

1 (i g) Special permission where used by the National Electrical Code shall mean the consent
2 of the authority having jurisdiction.

3 (h) Section 406.4(D)4 of the 2011 NEC is hereby deleted.

4 (i) Fire separation between wiring methods in mixed occupancy structures shall be
5 dictated by the Building Code enforced by the Department of Building and Safety.

6 (j) Enforcement of Section 210.12 of the National Electrical Code shall be congruent with
7 the requirements of the State of Nebraska's Electrical Division.

8 Section 14. That Section 23.10.300 of the Lincoln Municipal Code be amended to read
9 as follows:

10 **23.10.300 Services, Disconnects, Sub-feeders and Metering Requirements.**

11 Service disconnecting means shall contain the proper overcurrent devices, connected in
12 series with the service conductors to adequately protect all ungrounded conductors from overload.
13 ~~These disconnects shall have a fault current interrupting rating equal to or greater than the computed~~
14 ~~available fault current. It shall be the responsibility of the electrical contractor to obtain the value~~
15 ~~of the fault current available from either the project design engineer or the power supplier.~~
16 Approved service equipment consisting of fuses or circuit breakers installed in line-meter-fuse
17 sequence shall be used on all installations requiring main fusing of 200 amperes or less and less than
18 250 volts nominal. The defined utility service point for underground residential single family
19 services both temporary and permanent shall be the line side of the electric revenue meter socket.
20 For overhead single family residential services both temporary and permanent the utility point shall
21 be the utility connection at the service head.

22 The service disconnect shall be mounted as close to the point of service entrance as possible.
23 Each building or occupancy within a building having a service rated 200 amperes or less shall have

1 one main disconnect. When more than one service or main disconnect is provided, per building or
2 multi-occupancy building, said services or disconnects shall be placed immediately adjacent to each
3 other, unless otherwise specifically authorized by the Building Official, and shall be clearly labeled
4 in a permanent manner as to their voltage characteristics and the area or portion of the building or
5 premises that is being served by each disconnect. If located inside a building, and not mounted on
6 the outside wall directly opposite the point of entrance, the service conductors shall be enclosed in
7 conduit or raceway encased with two inches of concrete, four inches of brick, or eight inches of
8 hollow block or tile from the point of entrance to the service disconnect enclosure.

9 Liquid-tight flexible metal conduit, flexible metal conduit, service entrance cables, liquid-
10 tight flexible nonmetallic conduit, and electrical nonmetallic tubing shall not be used as the wiring
11 method for the installation of service entrance conductors.

12 Service entrance conductors and panel sub-feeder conductors except the equipment ground
13 shall all be the same size and have an ampacity in accordance with ~~NEC Tables Article 310-16~~
14 ~~through 310.19 and applicable notes~~ of the National Electrical Code for the maximum rating of the
15 overcurrent device(s) or service.

16 EXCEPTION (1): For center-grounded delta systems only, where a fused switch is
17 provided for the service disconnect, a reduction in size of the high leg conductor with a
18 corresponding reduction in overcurrent protection shall be permitted.

19 EXCEPTION (2): Service entrance and sub-feeder conductors may utilize a reduced
20 neutral conductor, provided the plans which are submitted for review prior to the issuance
21 of a building permit include adequate information to justify reduced neutral ampacity.

22 EXCEPTION (3): For single family dwellings where the service lateral conductors are
23 not installed by a utility.

1 Main bonding jumpers and grounding electrode connections as a general rule shall be
2 installed and made in the main service disconnecting means. In all cases the bonding and grounding
3 connections shall be accessible after installation is complete, except where specifically listed for the
4 purpose. Connections shall not be made where a utility seal prevents the future maintenance and
5 inspection of these terminations. In the case of multiple service disconnecting means listed and
6 approved enclosures may be used for all grounding electrode connections and taps.

7 In general, electric revenue metering equipment shall be installed on the supply side of the
8 service disconnect. Electric revenue meters on a building or structure shall be installed as per the
9 serving utilities standards regarding heights and type of equipment used. Where the serving utility
10 has no standard or regulation for this equipment, then all requirements contained in the National
11 Electrical Code shall be complied with. All nonmetallic conduits for underground services or
12 feeders, whether used as a sleeve for protection or installed as a complete raceway, shall incorporate
13 expansion fittings to prevent damage to service equipment.

14 Potential reference and instrument transformer wires installed between service equipment
15 or CT cabinets and the meter socket may extend up to twenty feet within a structure without raceway
16 concrete encasement, provided the raceway is of rigid metal conduit. Runs of conduit for unfused
17 metering conductors exceeding twenty feet shall be installed below grade, or be encased in not less
18 than two inches of concrete, four inches of brick, or eight inches of hollow block or tile.

19 A permit shall be obtained for repairs of existing services where either the meter seal is
20 broken, the meter socket is unfastened from the structure, or the service drop is disconnected. For
21 replacement of existing electrical services where currently located within a bathroom area, the
22 service shall not be required to be relocated provided the service equipment has proper clearances
23 that comply with the current edition of the National Electrical Code.

24 Section 15. That Section 23.10.520 of the Lincoln Municipal Code be amended to read
25 as follows:

1 **23.10.520 Permit Fees.**

2 Before a permit to install, alter, or add to electrical equipment shall be issued, a fee for such
3 permit shall be paid to the Building Official as set forth below. Said permit shall become valid for
4 a period of ~~sixty~~ ninety days from the date of issuance, and remain valid as long as work on the
5 project is not abandoned for a period in excess of ~~sixty~~ ninety days.

6 Where work for which a permit is required by this code is started prior to obtaining a permit,
7 the fees hereinafter specified shall be doubled; however, the payment of such double fees shall not
8 relieve any person, firm, or corporation from fully complying with the requirements of this code.

9 NOTE: Non-compliance fees as prescribed in the fee schedule may be levied in
10 addition to the above penalty, but are not subject to doubling.

11 There shall be no refunds or credits given on any permit which has expired. ~~Permit holders~~
12 ~~returning an unused or partially completed permit prior to the expiration date of the permit shall be~~
13 ~~limited to a maximum refund amounting to two-thirds of the original fee for the items not yet~~
14 ~~inspected, for total refund amounts of \$60.00 and less. For permit fee refund totals in excess of~~
15 ~~\$60.00, a \$20.00 processing fee will be levied against the refund amount, but the two-thirds~~
16 ~~maximum shall not apply. All requests for refunds on permits shall be in writing to the Department~~
17 ~~of Building and Safety. All refunds shall be subject to a \$20.00 processing fee. For partially~~
18 ~~completed permits, refund amounts shall be calculated by the total fee for items not yet inspected~~
19 ~~minus the \$20.00 processing fee.~~

20 **COMBINED FEE AND PRICE SCHEDULE**

21 **PERMIT FEES (For licensed applicants):**

22 Minimum Permit Fee Charge \$ ~~25.00~~ 30.00

23 There is no minimum permit fee for supplemental permits for
24 shortages occurring on the original permit, and for which the
25 work has been inspected. Minimum permit fees shall apply to
26 all work that has not been inspected.

27 ~~Service Equipment:~~

28 30 ampere thru 200 ampere	35.00
29 201 ampere thru 400 ampere	50.00
30 401 ampere thru 1200 ampere	75.00
31 1201 ampere thru 1600 ampere	75.00
32 1601 ampere thru 3000 ampere	125.00
33 3001 ampere and over	150.00
34 Service Repair	25.00

1	Change overhead to underground, with no change of panel	25.00
2	Each additional meter	6.00
3	Each branch panel, sub-panel, or transfer switch	15.00
4	High Voltage (>600v) Equipment:	
5	per termination	10.00
6	Outlets for lighting, receptacles, switches, and	
7	junction boxes (each opening)	5.00
8	Lighting fixtures, each	5.00
9	Baseboard heaters, each unit	5.00
10	Ceiling Fans	5.00
11	Motors:	
12	Up to and including 3 H.P.	8.00
13	Over 3 H.P.	15.00
14	Generators:	
15	Up to and including 10 KW	10.00
16	Over 10 KW through 15 KW	35.00
17	Over 15 KW	50.00
18	Transformers:	
19	To 15 KVA	10.00
20	Over 15 KVA - 75 KVA	25.00
21	Over 75 - 112 1/2 KVA	50.00
22	Over 112 1/2 KVA	75.00
23	Exhaust fans and hoods:	
24	Residential - Kitchen and Bathroom	3.00
25	Commercial - Kitchen	25.00
26	Pole lights, arc lights, vapor lights, yard lights	5.00
27	Appliances or receptacles for same: such as disposal,	
28	dishwasher, dryer, range, furnace, air conditioner,	
29	heat pumps, roof top units (RTUs), unit heater,	
30	duct heater, water heater or receptacles for approved	
31	cord connected appliances of a like nature	6.00
32	Signs:	
33	Including time clock, disconnect, ballasts, etc.	25.00

1	Pool Grounding	75.00
2	Hot Tub or Spa	50.00
3	Other NEC Article 680 items, such as fountains	25.00
4	Hydro Massage Bathtub	20.00
5	Temporary Wiring, such as construction and exhibition	
6	100 amperes and less	25.00
7	More than 100 amperes	Same fee schedule as services
8	Reinspection fee (wrong address, work not	
9	complete, inaccessibility of equipment,	
10	and equipment that does not pass inspection)	75.00
11	For inspection of apparatus for which	
12	no other fee is herein provided	7.00
13	Fire Alarm Control Panel	30.00
14	Fire Alarm Devices and Signals	
15	1 - 15	25.00
16	16 - 50, an additional	20.00
17	51 - 100, an additional	15.00
18	For each additional 100, or fraction thereof,	
19	an additional	10.00
20	EXAMINATION FEE: All classes - per examination	50.00
21	REGISTRATION FEES:	
22	City Master Electrician Registration Fee, annually	60.00
23	City Journeyman Electrician Registration Fee, annually	20.00
24	City Apprentice Electrician Registration, annually	12.00
25	Maintenance Electrician Registration Fee, annually	100.00
26	State Master/Contractor Registration Fee, annually	60.00
27	or biennially	120.00
28	State Fire Alarm Installer Registration Fee, annually	60.00
29	or biennially	120.00
30	State Journeyman License Registration Fee, annually	20.00
31	or biennially	40.00

32 For service equipment, service repairs, service rewires, temporary services, branch or
33 sub-panels, and transfer switches the following fees shall apply by amperage per component:

1	<u>0-200 amperes</u>	<u>\$35.00</u>
2	<u>201-400 amperes</u>	<u>\$50.00</u>
3	<u>401-800 amperes</u>	<u>\$75.00</u>
4	<u>801-1200 amperes</u>	<u>\$95.00</u>
5	<u>1201-2000 amperes</u>	<u>\$125.00</u>
6	<u>2001-3000 amperes</u>	<u>\$150.00</u>
7	<u>over 3000 amperes</u>	<u>\$200.00</u>
8	<u>Each additional meter</u>	<u>\$6.00</u>
9	<u>High voltage (>600v) equipment:</u>	
10	<u>Terminations for equipment (each)</u>	<u>\$10.00</u>
11	<u>Wind and photovoltaic generation systems:</u>	
12	<u>0 to 1.5KW</u>	<u>\$50.00</u>
13	<u>Over 1.5KW through 10KW</u>	<u>\$100.00</u>
14	<u>Over 10KW</u>	<u>\$150.00</u>
15	<u>Charger/converter/controller's (each)</u>	<u>\$20.00</u>
16	<u>Generator Systems:</u>	
17	<u>Up to and including 10KW</u>	<u>\$25.00</u>
18	<u>Over 10KW through 25KW</u>	<u>\$50.00</u>
19	<u>Over 25KW through 100KW</u>	<u>\$75.00</u>
20	<u>Over 100KW through 250KW</u>	<u>\$125.00</u>
21	<u>Over 250KW</u>	<u>\$175.00</u>
22	<u>Transformers:</u>	
23	<u>0 to 15 KVA</u>	<u>\$20.00</u>
24	<u>Over 15 through 75 KVA</u>	<u>\$50.00</u>
25	<u>Over 75 through 112 ½ KVA</u>	<u>\$100.00</u>
26	<u>Over 112 ½ KVA</u>	<u>\$150.00</u>

1	<u>Motors:</u>	
2	<u>0 to 3</u>	<u>\$8.00</u>
3	<u>Over 3 through 10 HP</u>	<u>\$15.00</u>
4	<u>Over 10 HP</u>	<u>\$25.00</u>
5	<u>Exhaust Fans and Hoods:</u>	
6	<u>Residential - Kitchen and Bathroom</u>	<u>\$3.00</u>
7	<u>Commercial - Kitchen</u>	<u>\$25.00</u>
8	<u>Commercial - Bathroom</u>	<u>\$5.00</u>
9	<u>Pole and Parking Lot Lighting:</u>	
10	<u>Pole (each)</u>	<u>\$6.00</u>
11	<u>Luminaire for pole or parking lot lighting (each)</u>	<u>\$2.00</u>
12	<u>Each outlet for lighting, receptacles, switches, junction boxes</u>	<u>\$0.60</u>
13	<u>Each lighting fixture (for track lighting luminaires are counted separately)</u>	<u>\$0.60</u>
14	<u>Baseboard, cove, unit heaters, duct heater</u>	<u>\$6.00</u>
15	<u>Ceiling Fans</u>	<u>\$6.00</u>
16	<u>Smoke/CO detectors 120 volt hard wired/interconnected</u>	<u>\$1.00</u>
17	<u>Radiant Heating Cables and mats (per system)</u>	<u>\$30.00</u>
18	<u>Bathroom Hand Dryers</u>	<u>\$6.00</u>
19	<u>Signs (each)</u>	<u>\$25.00</u>
20	<u>Appliances or receptacles for same:</u>	
21	<u>Disposal, Dishwasher, Dryer, Range, Furnace (Electric and Gas)</u>	
22	<u>Heat Pumps, Water Heaters, Air Conditioner, or receptacles for</u>	
23	<u>approved cord connected appliances of like nature (each)</u>	<u>\$6.00</u>
24	<u>Roof Top Units (RTU's)</u>	<u>\$10.00</u>
25	<u>Pool Bonding (equipment listed separately)</u>	<u>\$150.00</u>

1	<u>Hot Tubs or similar</u>	<u>\$75.00</u>
2	<u>Fountains and water features (equipment listed separately)</u>	<u>\$25.00</u>
3	<u>Hydro Massage Bathtub</u>	<u>\$25.00</u>
4	<u>Temporary Wiring (for other than construction purposes)</u>	<u>\$30.00</u>
5	<u>Miscellaneous:</u>	
6	<u>(For inspection of apparatus for which no other fee is provided)</u>	<u>\$7.00</u>
7	<u>Fire Alarm Control Panel</u>	<u>\$35.00</u>
8	<u>Fire Alarm Devices and Signals:</u>	
9	<u>1 - 15 devices</u>	<u>\$25.00</u>
10	<u>16 - 30 devices</u>	<u>\$50.00</u>
11	<u>31 - 50 devices</u>	<u>\$75.00</u>
12	<u>51 - 100 devices</u>	<u>\$100.00</u>
13	<u>Over 100 devices</u>	<u>\$125.00</u>
14	<u>Re-inspection fee:</u>	
15	<u>Wrong address, work not complete, improper or no access</u>	
16	<u>for inspection, equipment that does not pass inspection</u>	<u>\$30.00</u>
17	<u>Non-compliance fees:</u>	
18	<u>Fees for non-compliance shall be in addition to any penalties,</u>	
19	<u>finer, or fees prescribed elsewhere in this code. Non-</u>	
20	<u>compliance fees may be assessed by the Chief Electrical</u>	
21	<u>Inspector for the following:</u>	
22	<u>Journeyman to apprentice ratio (for each employee working onsite)</u>	<u>\$200.00</u>
23	<u>Expired/Improper registration (per employee out of compliance)</u>	<u>\$200.00</u>
24	<u>Work done by non-licensed/non-registered persons</u>	<u>\$200.00</u>
25	<u>Failure to obtain required inspection</u>	<u>\$200.00</u>
26	<u>Failure to obtain permit</u>	<u>\$200.00</u>

1 **Examination Fee:** (All classes per examination) \$100.00

2
3 **Registration Fees:**

4 The following registration fees are for a term of one year.
5 (For two year registration of State Licenses the following
6 fees would be double.)

7 State of Nebraska Master/Contractor \$100.00

8 State of Nebraska Fire Alarm Installer \$100.00

9 State of Nebraska Journeyman \$25.00

10 Maintenance Electrician \$100.00

11 City of Lincoln Master Electrician \$100.00

12 City of Lincoln Journeyman Electrician \$25.00

13 City/State Apprentice registration \$15.00

14 **PERMIT FEES: (For non-licensed applicants)**

15 Non-Licensed Applicant Fees:

16 The following fees shall be used for all electrical applications by persons
17 applying for electrical permits under section 23.10.160 of this code.

18
19 Each receptacle, switch, or other electrical device \$1.00

20 Each lighting fixture. \$1.00

21 Each Smoke/CO detector 120 volt hard wired/interconnected \$1.00

22 Ceiling Fans \$5.00

23 Each electrical box: for switches, receptacles, lights, junctions etc \$1.00

24 Exhaust Fans for Bathrooms and Kitchens \$5.00

25 Appliances or receptacles for same (each) \$10.00

26 Electric Furnace Gas Furnace Air Conditioner
27 Heat Pump Dryer Range
28 Garbage disposal Dishwasher Water Heater
29 Air Compressor Welder

1	<u>Hydro Massage Bathtub</u>	<u>\$35.00</u>
2	<u>Electric Space Heating Cable and Mat systems</u>	<u>\$35.00</u>
3	<u>Branch or Sub panel (fed from main service)</u>	<u>\$50.00</u>
4	<u>Re-inspection Fee (see definition in licensed permit fee schedule)</u>	<u>\$35.00</u>
5	<u>Minimum Permit Fee</u>	<u>\$35.00</u>

6 **COST OF APPEAL PROCEDURES - See Section 23.10.120**

7 Section 16. That Sections 23.10.010, 23.10.070, 23.10.120, 23.10.140, 23.10.150,
8 23.10.160, 23.10.190, 23.10.195, 23.10.200, 23.10.220, 23.10.290, 23.10.300 and 23.10.520 of
9 the Lincoln Municipal Code as hitherto existing be and the same are hereby repealed.

10 Section 17. Pursuant to Article VII, Section 7 of the City Charter, this ordinance
11 shall be posted on the official bulletin board of the City, located on the wall adjoining the City
12 Clerk’s office at 555 S. 10th Street, in lieu of and in place of newspaper publication with notice
13 of passage and such posting to be given by publication one time in the official newspaper by the
14 City Clerk. This ordinance shall take effect and be in force from and after its passage and
15 publication as herein and in the City Charter provided.

Introduced by:

Approved as to Form & Legality:

City Attorney

<p>Approved this ___ day of _____, 2011:</p> <p>_____</p> <p>Mayor</p>
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