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CITY OF BELLEVUE, WASHINGTON

ORDINANCE NO. 3266

AN ORDINANCE relating to Bellevue City Code Chapter 23.30, the Electrical Code; amending Bellevue City Code 23.30.160, 23.30.170, 23.30.220, 23.30.230, 23.30.250, 23.30.260; repealing Bellevue City Code 23.30.140 and 23.30.270; and adding new sections 23.30.095, 23.30.135, 23.30.140, 23.30.145, 23.30.235.

THE CITY COUNCIL OF THE CITY OF BELLEVUE, WASHINGTON, DOES ORDAIN AS FOLLOWS:

Section 1. A new section 23.30.095 is hereby added to Bellevue City Code Chapter 23.30, to read as follows:

23.30.095 Removal of Unused Conductors.

Electrical conductors not in use shall be removed unless otherwise authorized by the building official.

Section 2. A new section 23.30.135 is hereby added to Bellevue City Code Chapter 23.30, to read as follows:

23.30.135 Application for Permit.

Applications for electrical permits shall be made to the building official on a form furnished for that purpose by the City. The application shall identify and describe the work to be covered by the permit for which application is made, the name and address of the applicant, the name and address of the owner of the property on which the work is to be performed and such other information as reasonably may be required by the building official.

Section 3. Bellevue City Code 23.30.140 is hereby repealed.

Section 4. A new section 23.30.140 is hereby added to Bellevue City Code Chapter 23.30, to read as follows:

23.30.140 Expiration of Permits - Extension.

Every permit issued by the building official under the provisions of this code shall expire and become null and void one year after date of issuance, provided a permit issued for a project on which work is continuously performed and the necessary periodic inspections are made shall be extended beyond the one year period

by the building official upon request of the applicant. Such extension(s) shall be for one year increments and shall not exceed a total of three years. In addition, any such extension(s) shall be granted only if work is continuously performed and the necessary periodic inspections are made during any previous one year extension.

Upon a permit becoming null and void, before the work can be continued, a new permit application must be completed and a new permit must be issued. The fee therefore, providing no changes have been made, or will be made on the original plans and specifications for the work, shall be one half the amount required for a new permit for such work.

Section 5. A new section 23.30.145 is hereby added to Bellevue City Code Chapter 23.30, to read as follows:

23.30.145 To Whom Permit Issued.

Electrical permits shall be issued only to a person, firm, or corporation holding an unexpired, unrevoked, and unsuspended license issued by the state under the provisions of RCW 19.28, provided a permit may be issued to a person, firm or corporation not holding such a license if specifically authorized under the provisions of said RCW 19.28, including a person doing electrical work at his/her own residence, farm, or place of business or other property owned by him/her, provided further, no such person, firm or corporation shall employ any unlicensed person, firm or corporation to perform the work authorized by the permit.

Section 6. Bellevue City Code 23.30.160 is hereby amended to read as follows:

23.30.160 Plans and specifications to be submitted - Acceptance.

Duplicate sets of printed documents on all proposed electrical installations for all structures shall be submitted to the building official for review and inspection. Such documents shall include the following:

- (a) Electrical riser diagrams that include conductor sizes, type, insulation, and number of conductors.
- (b) Raceway sizes and type,
- (c) Electrical panel schedules,
- (d) Load calculations,

- (e) Method of grounding,
- (f) The available fault current at the line terminals of the service equipment submitted on approved forms.

The printed documents shall consist of reproductions of drawings or drawings and specifications, if specifications are necessary for the proper interpretation of the drawings. The printed documents shall completely, clearly, and accurately describe and define a proposed installation. The wattage and type of each lighting fixture and the wattage or horsepower rating and purpose of all outlets shall be included. Mains, feeders, branch circuits and distribution panels shall be designated by letters and numbers. A complete key to symbols and designations shall be included. The documents shall have been prepared by a qualified person who shall bear the burden of proof of qualification if proof is deemed necessary by the building official. Qualified persons shall be an architect licensed to practice as an architect in the State of Washington, an electrical engineer licensed to practice as an electrical engineer in the state, or an electrical contractor licensed to do business as an electrical contractor in the state. All plans shall be drawn to a scale of not less than one-eighth of an inch to the foot. Only neat, legible, printed documents bearing the signature or seal of the person responsible for the documents and containing the details described by this section will be accepted for examination.

As soon as possible after plans and specifications are accepted, they shall be examined by the building official, and if the contemplated work conforms to the provisions of this code, the plans shall be stamped "Approved for construction subject to field inspection, City of Bellevue, Washington," together with the date of approval and the authorization of the building official.

The building official may waive the submission of plans and specifications if it is determined that the nature of the work applied for is such that the review of plans and specifications is not necessary to obtain compliance with this code.

Section 7. Bellevue City Code 23.30.170 is amended to read as follows:

23.30.170. Disposition of plans.

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One set of approved plans shall be returned to the applicant, and shall remain on the job site for purposes of inspection. The other set shall be filed in the office of the building official, and shall be maintained and/or disposed of in accordance with state law.

Section 8. Bellevue City Code 23.30.220 is hereby amended to read as follows:

23.30.220. Provisions of National Electrical Code adopted.

The National Electrical Code, 1981 addition, as published by the National Fire Protection Association as NFPA No. 70, is adopted as amended, added to and excepted in this chapter or elsewhere in the code and ordinances of the city. Said code is adopted by reference as though fully set forth herein.

Section 9. Bellevue City Code 23.30.230 is hereby amended to read as follows:

23.30.230. Article 230, Section 202 amended - Wiring Methods. Article 230, Section 202, subsection B of the National Electrical Code is amended to provide as follows:

Service entrance conductors shall be installed in the following manner:

- (a) Approved raceways in accordance with National Electrical Code Article 230 and WAC 296-46-200.
- (b) Minimum coverage shall be 24 inches below finished grade.
- (c) Distribution equipment and conductors shall be of the same rating.
- (d) Where current limiters are permitted they shall be installed in an approved enclosure, and labeled "current limiters."
- (e) Where Section 230-95(c) of the National Electrical Code applies, tests shall be performed by a recognized testing company and, if required, shall be witnessed by the building official.

The building official may approve any alternate design, material or method of installation, provided the proposed design is found to be satisfactory and the material, method or design offered is equal to or better in quality, strength, effectiveness, fire resistance, durability and safety for the

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purpose intended, as is the material, method or design prescribed under the code, provided:

- (1) In other than one and two family dwellings the ampacity of installed conductors shall be labeled on service distribution equipment when not of the same rating, and
- (2) One and two family dwellings may be served with approved direct burial cable provided such cable shall be sleeved under paving, and installed to conform to Sections 230(d) and 300-5 of the National Electrical Code.

Section 10. A new Section 23.30.235 is hereby added to Chapter 23.30 of the Bellevue City Code, to read as follows:

23.30.235. Grounding Procedures.

Electrical service systems shall be grounded by one or all of the following means:

- (a) An approved conductor sized in accordance with Table 250-94 of the National Electrical Code attached by approved means to the concrete foundation reinforcing steel.
- (b) Two electrodes, rod or pipe, that shall be eight feet in length, installed in the following manner, and series connected:
 - (1) Electrodes of pipe or conduit shall be no smaller than 3/4 inch trade size and, where iron or steel, shall have the outer surface galvanized or otherwise metal coated for corrosion protection.
 - (2) Electrodes of rods of steel or iron shall be at least 5/8 inches in diameter. Non-ferrous rods or their equivalent shall be listed and shall be not less than 1/2 inch diameter.
 - (3) The two electrodes shall be installed no less than sixteen feet apart, and shall be driven to a depth of not less than eight feet, except where rock bottom is encountered, electrodes shall be driven at an oblique angle not to exceed forty-five degrees from the vertical or shall be buried in a trench that is at least thirty inches deep. The upper end of the electrodes shall be flush or below ground level unless

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the above ground end and the grounding electrode conductor attachment are protected against physical damage as specified in Section 250-117 of the National Electrical Code.

- (4) Section 250-83 of the National Electrical Code shall apply where none of the above are applicable.

Section 11. Bellevue City Code 23.30.250 is hereby amended to read as follows:

23.30.250. Fees.

- A. General minimum fees. The following schedule of fees shall be collected by the building official as a condition precedent to issuance of permits required under the Electrical Code. Where no definite method is prescribed herein for calculating the amount of the fee for an electrical permit, or the checking of plans pertaining thereto, such fee shall be determined by the building official as near as may be to cover the costs of plan checking, permit and inspection. When electrical wiring is done without the required permit, the fee shall be double the fee fixed by this chapter. All fees shall be paid in full before final approval is given.
- B. Electrical Permit Fee. A permit fee for electrical permits shall be determined based on contract price or time and materials as follows: (Where contract price is unknown, the value of work shall be determined by the Building Official. Contract price is defined as all labor and materials required to complete the electrical installation).
1. Where the contract cost is \$250 or less: \$20.00
 2. Where the contract cost is \$251 to \$1,000: \$20.00 plus 3% of the cost over \$250.
 3. Where the contract cost is \$1,001 to \$5,000: \$42.00 plus 1.5% of cost over \$1,000.
 4. Where the contract cost is \$5,001 to \$50,000: \$102.00 plus 1% of the cost over \$5,000.
 5. Where the contract cost is \$50,001 to \$250,000: \$552.00 plus .8% of the cost over \$50,000.
 6. Where the contract cost is \$250,001 to \$1,000,000:

\$2,152.00 plus .6% of cost over \$250,000.

7. Where the contract cost is \$1,000,001 and above:
\$6,652.00 plus .4% of cost over \$1,000,000.

Limited voltage installation shall be 25% of the above amounts, with a \$20.00 minimum.

8. Swimming pools, hot tubs, saunas, and similar installations require a separate permit in the amount of \$25.00.

The fee for service changes and remodeling, residential only, shall be:

Service change, 100 amp to 200 amp: \$10.00, plus \$.50 per circuit pick up and \$1.00 for each new circuit.

Service change, 200 amp to 600 amp: \$25.00, plus \$.50 per circuit pick up and \$1.00 for each new circuit.

9. Signs, (new circuit installations) \$20.00.
10. Fees for temporary service on construction sites shall be as follows:

Size	Fee
1 to 125A	\$20.00
126 to 200A	\$30.00
201 to 400A	\$45.00
401 to 500A and above	in accordance with Sections 1 thru 7 above

11. Carnivals - Fees for temporary service at carnivals shall be as follows:

Base fee	\$50.00
charge per concession	\$10.00
maximum charge	\$250.00

- C. Plan Checking Fee. Where plans or specifications, or both, describing an electrical installation are checked by the building official to determine the extent of their compliance with the Electrical Code, the charge shall be ten percent of the fee prescribed for an electrical permit based on such plans and/or specifications. Said 10% of the total fee must be paid before the plans and/or specifications are checked and shall be transmitted to the clerk for deposit to the

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general fund. If said plans are approved and the application for a permit granted within six months of the date of filing for checking, the amount of the plan checking fee shall be allowed as a credit upon the permit fee.

- D. Redesign Fee. Where a redesign is submitted after one design has been checked, whether approved or not, an additional fee shall be paid for in proportion to the amount of the design affected. Credit upon the permit fee shall be limited to 10% of the permit fee for the finally approved installation.
- E. Fee when Costs Unknown. When the cost of the job is not known at the time the plans and/or specifications are submitted for checking, the building official shall estimate the cost of the proposed installation and determine the amount of examination and permit fees. If protest is made in writing to the estimate and charge, the fee collected shall be deposited in a suspense fund created for that purpose until work is completed and proof of cost submitted by applicant. Any excess of deposit shall be returned to the permittee and the residue transmitted to the city general fund.
- F. Complexes. A separate permit is required for each building of an apartment or condominium complex. If individual buildings do not have a separate contract price, the total price contract shall be divided by the number of buildings in the complex to determine the contract price for each building.

Section 12. Bellevue City Code 23.30.260 is hereby amended to read as follows:

23.30.260. Raceways.

All premises shall be wired with approved raceways except as further provided in this Chapter.

Raceways shall not be required for:

- (a) One and two family dwellings, or multi-family dwellings not exceeding three stories above grade. For purposes of this section:

Story is that portion of a building included between the upper surface of any floor and the upper surface of the floor next above, except that the topmost story shall be that portion of a building included between the upper surface of the topmost floor and the ceiling or roof above. If the finished floor level directly above a basement or unused under-floor space is more

than 6 feet above grade as defined herein for more than 50 percent of the total perimeter or is more than 12 feet above grade as defined herein at any point, such basement or unused under-floor space shall be considered as a story.

Story, first, is the lowest story in a building which qualifies as a story, as defined herein, except that a floor level in a building having only one floor level shall be classified as a first story, provided such floor level is more than 4 feet below grade, as defined herein, for more than 50 percent of the total perimeter, or more than 8 feet below grade, as defined herein, at any point.

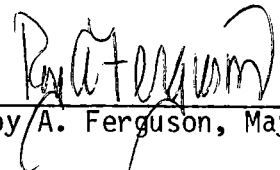
- (b) Installations under Article 720, 725, and 800 of the National Electrical Code, when installed with approved materials.

Section 13. Bellevue City Code 23.30.270 is hereby repealed.

Section 14. This ordinance shall take effect and be in force thirty days after enactment by the City Council.

PASSED by the City Council this 6th day of June, 1983, and signed in authentication of its passage this 6th day of June, 1983.

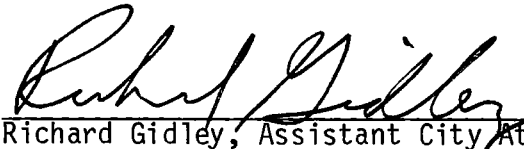
(SEAL)



Roy A. Ferguson, Mayor


Approved as to form:

Linda M. Youngs, City Attorney



Richard Gidley, Assistant City Attorney

Attest:



Marie K. O'Connell, City Clerk

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