

ORDINANCE NO. 935

AN ORDINANCE TO SAFEGUARD LIFE AND PROPERTY BY REGULATING AND PROVIDING FOR THE INSPECTION OF ELECTRICAL WIRING, DEVICES, APPLIANCES AND EQUIPMENT; CREATING THE OFFICE OF SENIOR ELECTRICAL INSPECTOR AND PRESCRIBING HIS AUTHORITY AND DUTIES; REQUIRING THAT NO ELECTRICAL EQUIPMENT SHALL BE INSTALLED WITHOUT FIRST SECURING A PERMIT THEREFOR; ADOPTING BY REFERENCE A SPECIALIZED ELECTRICAL ORDINANCE IN TWO PARTS, PART I ESTABLISHING RULES AND REGULATIONS FOR THE CITY OF LAS VEGAS AND PART II ADOPTING THE 1959 NATIONAL ELECTRICAL CODE AS RECOMMENDED BY THE NATIONAL FIRE PROTECTIVE ASSOCIATION AND APPROVED BY THE AMERICAN STANDARDS ASSOCIATION; CREATING A BOARD OF ELECTRICAL EXAMINERS; PROVIDING FOR THE LICENSING OF PERSONS, FIRMS OR CORPORATIONS ENGAGED IN THE BUSINESS OF ELECTRICAL CONTRACTING OR EMPLOYING ELECTRICIANS PERFORMING ELECTRICAL WORK; MAKING IT UNLAWFUL TO ENGAGE IN THE BUSINESS OF ELECTRICAL CONTRACTING OR TO UNDERTAKE THE EXECUTION OF ELECTRICAL WORK WITHOUT A LICENSE, EXCEPT AS OTHERWISE PROVIDED; MAKING IT UNLAWFUL TO SELL AT RETAIL CERTAIN ELECTRICAL PRODUCTS UNLESS SUCH PRODUCTS HAVE BEEN APPROVED BY THE ELECTRICAL INSPECTOR AND UNDERWRITERS' LABORATORIES, INC.; PROVIDING PENALTIES FOR THE VIOLATION THEREOF AND REPEALING TITLE 4, CHAPTER 3, SECTIONS (a) AND (b), MUNICIPAL CODE OF THE CITY OF LAS VEGAS, NEVADA, 1960 AND ALL ORDINANCES AND PARTS OF ORDINANCES IN CONFLICT THEREWITH AND PROVIDING OTHER MATTERS PROPERLY RELATED THERETO.

THE BOARD OF COMMISSIONERS OF THE CITY OF LAS VEGAS DO ORDAIN AS FOLLOWS:

SECTION 1. That those certain documents, three (3) copies of each which are on file in the office of the City Clerk of the City of Las Vegas, being marked and designated as follows:

- (a) Specialized Electrical Ordinance - Part I, and
- (b) Specialized Electrical Ordinance - Part II, otherwise known as the 1959 National Electrical Code as recommended by the National Fire Protective Association and approved by the American Standards Association, together with all tables of contents, definitions, articles, tables, indexes and appendixes,

be and the same hereby are referred to as the "SPECIALIZED ELECTRICAL ORDINANCE OF THE CITY OF LAS VEGAS" and by this reference and adoption become the "SPECIALIZED ELECTRICAL ORDINANCE OF THE CITY OF LAS VEGAS" the same as if they were fully set forth herein.

SECTION 2. Any person, firm or corporation violating any of the provisions of this Ordinance shall, upon conviction thereof, be punished by a fine of not less than \$25.00 nor more than \$500.00 and/or imprisonment in the City Jail for not more than six months, or by any combination of such fine and imprisonment. Every day of such violation shall be a separate offense.

SECTION 3. All ordinances and sections of the City Code in conflict herewith are hereby repealed.

SECTION 4. This ordinance shall be in full force and effect from and after its passage and adoption as provided in Chapter II, Section 30 of the Charter of the City of Las Vegas.

ATTEST:

Edwina M. Cole
EDWINA M. COLE, CITY CLERK

CITY
CLERK'S
Oran K. Gragson
ORAN K. GRAGSON, MAYOR
FILE

PART I

SECTION 1. This Ordinance shall be known as the "SPECIALIZED ELECTRICAL ORDINANCE" and may be cited as such and will be referred to as "THIS ORDINANCE".

Wherever a Section or part is referred to by number it shall be understood to refer to a Section or part of this Ordinance.

SECTION 2. DEFINITIONS

NBFU - National Board of Fire Underwriters

NEC - National Electric Code

B of CC - Mayor and Board of City Commissioners

ME - Master Electrician - A person capable of laying out and supervising electrical work.

MNE - Master Neon Electrician. A person capable of laying out and supervising electric and gas-tube sign fabrication and erection.

MT - Master Technician. A person capable of laying out and supervising Commercial sound, radio, television, and low voltage control systems involving transistors or electric tubes.

SEI - Senior Electrical Inspector. An assistant to the Director of Building and Safety of the City of Las Vegas, Nevada.

UNIT - One home, apartment, store, warehouse, hall, auditorium, or each floor of a hotel.

EC - Electrical Contractor

B of EE - Board of Electrical Examiners

UL - Underwriters' Laboratories, Inc.

EI - Electrical Inspector

SECTION 3. ADMINISTRATION

There is hereby created the office of SEI who shall be a member of the Building and Safety Department under the supervision of the head of said Building and Safety Department. The person chosen to fill the office of SEI shall be a Master Electrician or Electrical Engineer of good moral character; shall be possessed of such executive ability as is requisite for the efficient performance of his duties and shall have a thorough knowledge of the standard materials and methods used in the installation of electric wiring, devices, appliances and equipment; shall have the knowledge and ability to read, decipher and understand electrical drawings, specifications and calculations; shall be well-versed in approved methods of electrical construction for safety of life and property; the statutes of the State of Nevada relating to electrical work, the rules and regulations issued under authority of the statutes; the National Electric Code, NFPA No. 70, approved by the American Standards Association and the electrical provisions of other installations and safety codes approved by the American Standards Association.

SECTION 4. DUTIES OF SEI OR HIS APPOINTED DEPUTIES

It shall be the duty of the Senior Electrical Inspector and/or the EI to enforce the provisions of the Specialized Electrical

Ordinance and inspect the construction, installation and repairs of all electric light or power wiring, fixtures, appliances and apparatus in or running to any building or structure in Las Vegas and to require the correction of any defects therein which are dangerous or likely to cause fire or are contrary to this Ordinance. The EI must require the correction of such defects as are actually hazardous to life or property.

The Senior Electrical Inspector shall supervise the activities of the Electrical Inspectors and determine that enforcement of the provisions of this Code is being carried out in a consistent, uniform manner.

In order that prompt, efficient and uniform inspections are made throughout the City, the Senior Electrical Inspector shall make and establish policies from time to time to rectify any conditions which may be detrimental to this result.

It shall be the duty of the Senior Electrical Inspector to arbitrate any differences between a permittee and the Electrical Inspectors concerning Code interpretations or matters of policy of the Electrical Inspection Division of the Department of Building and Safety. Matters not successfully resolved, shall be submitted to the Director of Building and Safety who may request that the B of EE render a decision. Any decision so rendered may be appealed to the B of CC for a final decision. Such appeals to the B of CC shall be made in writing, through the Director of Building and Safety, and must be made within ten (10) days of any decision made by the B of EE.

The SEI shall ascertain that electrical wiring, fixtures, appliances and apparatus sold within the City for use within the City complies with the requirements of this Code, the UL and/or other approved testing agency.

It shall be unlawful for any person, firm or corporation to sell or offer to sell for use within the City of Las Vegas, any electrical wiring, fixture, appliance or apparatus that does not conform to the requirements of this Code, the UL and/or any other approved testing agency.

SECTION 4-A

When a routine inspection or a Fire Marshall recommendation is made, the owner will not be required to pay an inspection fee, unless all, or parts, of said wiring appliances or equipment is condemned, or where such inspection is made upon request of the owner or user of said wiring, fixtures, apparatus or appliances, in which case fees as provided for permits for installation of new work shall be paid by the person requiring the inspection.

SECTION 4-B

It shall be the duty of the EI to inspect any and all work for which permits have been issued as soon as practicable after notice by the contractor that the work is ready for inspection. Inspection shall, when necessary, be made two or more times during the progress of installation. First, when work is roughed in and last when work is completed, and it shall be the duty of the EI to indicate inspection of any work by a tag or label attached to the service switch wires or a certificate issued to the person taking out the permit. Such tag or label shall state the date, location and whether first or final inspection has been made. It shall be unlawful for any workman or any person to lath or otherwise conceal any electrical work until such first inspection tag has been placed.

SECTION 4-C

It shall be unlawful for the SEI, or any of his assistants, to engage in the business, sale, installation or maintenance of electric wiring, devices, appliances or equipment, either directly or indirectly and they shall have no financial interest in any concern engaged in such business in the City of Las Vegas, County of Clark, State of Nevada, at any time while holding such office as herein provided for.

SECTION 5 CERTIFICATE

Upon application for inspection of any wiring, apparatus, fixtures or appliances as hereinafter provided, the EI shall, after inspection and examination, issue a certificate showing the result of such examination and any corrections in said work necessary to be made.

SECTION 6 UNLAWFUL INSTALLATION

If the EI shall find any part of any electric light or power wiring, appliances, apparatus or fixtures in or upon any building in the City of Las Vegas, County of Clark, State of Nevada, to have been installed without a permit or installed not in compliance with the provisions of this Ordinance, said EI shall have the right and power to disconnect electrical service and place a seal upon the same, and shall at the same time give written notice of such disconnection to the owner or occupant of the building and the electrical power utility company. After wiring, fixtures, appliances or apparatus have been put in the condition required by this Ordinance, the seal so placed shall be removed by order of the EI.

SECTION 7

It shall be unlawful for any person to use any current in, through or by any means, such disconnected wiring, appliances, apparatus or fixtures, or attach otherwise for the supply of current to such disconnected wiring, fixtures, appliances or apparatus, or to remove, break or deface any seal so placed.

SECTION 8 PERMITS

SECTION 8-A

No alterations or additions shall be made in existing wiring, nor shall any wiring be installed or done for the placing of any lights, power or heating devices, or any apparatus which generates, transmits, transforms or utilizes any electricity nor shall any alterations be made to any wiring system after final inspection without first notifying the EI and securing a permit therefor. Application for such permit, describing such work, shall be made in writing by the person, firm, or corporation installing same, and the permit, when issued, shall be to such applicant. Each applicant shall state the location, by street and house number, and the permit shall be valid only for the location stated. A permit will not be required for minor repair work, such as repairing flush and snap switches, replacing fuses, changing lamp sockets and receptacles or fixtures, taping bare joints and repairing drop cords.

This Section shall not apply to wires installed in power houses and sub-stations belonging to electric light and telephone companies operating under a franchise, granted by the City of Las Vegas, County of Clark, State of Nevada.

No other permit shall be issued to any applicant during the time that he shall fail to correct any defective electrical work ten (10) days after he has been duly notified to correct

such defective work by the EI.

SECTION 8-B

Each application for a permit to install electrical wiring in Single Family residences and allied buildings (sheds, garages, etc.) must have attached thereto a drawing showing the electrical layout including the wiring and apparatus. Each application for a permit to install electrical wiring in commercial establishments (all other than single family residences) shall have attached thereto drawings showing in detail the proposed method of installing the wiring and apparatus, complete with load calculations and voltage drop in accordance with article 215-6 and as stated herein. When required by the Department of Building and Safety, these calculations shall be certified by a registered professional engineer, who is acquainted with the local codes and the rules and regulations of the serving utility company.

SECTION 8-C

In order to secure a permit for the installation of electrical wiring, fixtures, appliances or apparatus, and before any addition to or alteration in any old installation of electrical wiring fixtures, appliances or apparatus is made, written application shall be made to the SEI, on blanks provided for that purpose by said SEI, and the applicant therefor shall pay the City of Las Vegas, in advance, all fees as provided in Permit Fee Section.

SECTION 8-D

For an electrical elevator there shall be a charge per horse power of the motor or motors used to serve it. This shall be for inspection on the power wiring to and including the branch circuit disconnect. The inspection from this point on will be by another governmental agency who will furnish to the Department of Building and Safety a copy of the final acceptance of the elevator prior to public use. For inspection of any electrical wiring, fixtures, apparatus, appliances or installation for which no fee is herein provided, a charge of \$4.00 per hour for additional time shall be made.

SECTION 8-E

Any person who shall commence any electrical work for which a permit is required by this Ordinance, without first having obtained a permit therefor shall, if subsequently permitted to obtain a permit, pay double the permit fee fixed by Permit Fee Schedule for such work provided, however, that this provision shall not apply to emergency work when it shall be proved to the satisfaction of the SEI that such work was urgently necessary and that it was not practical to obtain a permit therefor before the commencement of the work. In all such cases, a permit must be obtained as soon as it is practical to do so and, if there be an unreasonable delay in obtaining such permit, a double fee as herein provided shall be charged.

SECTION 8-F OWNER'S PERMIT

Any permit required by this Ordinance may be issued to any person to do any construction or work regulated by this Ordinance in a single family dwelling used exclusively for living purposes, including the usual accessory buildings and quarters in connection with such buildings provided: (1) that such person is a bona fide owner of such dwellings, accessory buildings and quarters and (2) that the same are occupied by or designed to be occupied by said owner and (3) that said owner shall personally purchase all material and shall personally perform all labor in connection therewith

and (4) that said owner shall file an affidavit that he understands the provisions of this ordinance and will comply therewith.

SECTION 8-G ELECTRICAL PERMIT FEES

Any person or firm desiring a permit to do electrical work shall, at the time of issuance, pay to the City of Las Vegas a fee based on the following table:

SCHEDULE OF FEES

Minimum Permit	\$4.00
Light, receptacle or switch outlet	\$0.20
Wall or ceiling space heaters	\$0.35
Blast coil heaters per kilowatt	\$0.35
Garbage grinder outlet	\$0.35
Dishwasher outlet	\$0.35
Clothes dryer outlet	\$0.35
Automatic clothes washer outlet	\$0.35
Electric range	\$0.35
Electric water heater	\$0.35
Each fixture or socket	\$0.15
Each mercury arc lamp and equipment	\$0.35
Each special purpose outlet	\$0.35
Each X-Ray unit and its appurtenances	\$5.00
Festoon lighting - first 3000 watts	\$4.00
for each additional 1000 watts	\$1.50
Total horsepower - all motors - First	
First horsepower	\$1.75
For each additional horsepower	\$0.35
Temporary power and lights - Temporary pole	\$4.00
Electric service, including first meter	
socket	\$3.00
For each additional meter socket	\$0.35
Permanently connected air conditioning	
service (heating/cooling)	\$1.50
Each generator, transformer or welder each KW or KVA capacity, shall be considered as one (1) horsepower in a motor. Fee for moving motors, generators, welders or transformers on same premises shall be 75% of motor fee. Each motor generator set or frequency changes, the fee shall be 75% greater than for the motors alone.	
Speaker outlets	\$0.15
Signal or alarm outlets	\$0.15

Amplifiers	\$0.50
Control panels	\$0.25
T.V. outlets - master system only	\$0.15
Radio outlets	\$0.15
Main control racks	\$1.00
T.V. and radio antennas - master system only	\$0.75

SECTION 9 RULES GOVERNING INSTALLATION

Except as otherwise herein provided, all electrical wiring installations or electrical fixtures, apparatus or appliances for furnishing light, heat and/or power introduced into or placed in or on any building or structure in the City of Las Vegas, County of Clark, State of Nevada, shall be in conformity with the rules and requirements of the NEC and this Ordinance, and all fittings and material used in such installation must be sanctioned in the list of electrical fittings published by the UL. The "1959 National Electrical Code" is Part II of the "Specialized Electrical Ordinance" and shall be considered in conjunction with this Part I as the Complete Electrical Ordinance of the City of Las Vegas. Part II shall be adopted by reference at the same time as Part I.

SECTION 10 NOTICE OF INSPECTION

Upon the completion of the installation of any electrical wiring, fixtures, appliances or apparatus in or on any building, it shall be the duty of the person doing the work to notify the EI, who shall inspect the same within twenty-four (24) hours and, if approved, there shall be issued a certificate of final electrical inspection which shall contain the date of such inspection and an outline of the result. It shall be unlawful for any person to turn on or connect the current with such installation until such certificate shall be issued; and it shall also be unlawful to make any change, alteration or extension in or to the installation of any electrical wiring, fixtures or appliances or apparatus, in or on any building after final electrical inspection, without notifying the EI and securing a permit to do so, except for emergency repair work as herein noted.

When any part of a wiring installation is to be concealed by a permanent placement of parts of the building, the person performing the electrical installation shall notify the EI at least twenty-four (24) hours prior to such proposed concealment and such parts shall not be concealed until they have been inspected and approved by the EI; provided, that on large installations where the concealment of parts of the wiring proceed continuously, the person installing the wiring shall give the EI due notice as above specified and inspections shall be made periodically during the progress of the work. The EI shall have the authority to remove or to require the removal of any obstruction that prevents proper inspection of any electrical equipment or installation.

SECTION 11 RIGHTS AND POWERS

The SEI and EI shall have the right to enter any premises at all reasonable hours for the purpose of inspecting the electrical wiring, fixtures, appliances or apparatus therein.

SECTION 12

Nothing in this Ordinance shall be construed to relieve or lessen the responsibility of any person owning, operating or installing any electrical wires, fixtures, appliances, apparatus, construction or equipment for damages to anyone injured or damages either to the person or property by any defect therein; nor shall the City or any employees thereof be held as assuming any liability by reason of the inspections authorized herein or the certificate of inspection issued by the EI.

SECTION 13

Each and every day's continuation of a violation and/or any of the provisions of this Ordinance shall be deemed to be a separate and distinct offense.

SECTION 14 BOARD OF ELECTRICAL EXAMINERS

SECTION 14-A

There is hereby created a B of EE which shall consist of nine (9) members appointed by the B of CC as follows:

One (1) representative of an electric utility company;

Two (2) Master electricians as representative of the Electrical Contractors

One (1) Master Neon Electrician as representative of the Electric Sign Contractors

One (1) Master Technician as representative of the sound or signal system contractors.

One (1) Electrical engineer registered in and for the State of Nevada

Two (2) Journeyman electricians

One (1) Layman

and the SEI or his representative to act as secretary, provided that the SEI or his representative shall have no vote.

Appointments shall be made for terms of two (2) years, but any member may for cause, be removed from office at any time by the B of CC.

SECTION 14-B DUTIES OF B OF EE

It shall be the duty of the B of EE to furnish questions to the Personnel Department of the City of Las Vegas in such numbers that the Department can conduct examinations for applicants for Master Electrician Certificates, Master Neon Electrician Certificates and Master Technician Certificates. Such examinations shall be monitored by the Personnel Department and the examination papers graded by the B of EE. The B of EE shall issue Certificates of Competency to those applicants who successfully pass such examinations. It shall be the duty of the B of EE to recommend revocation or suspension of Certificates for good and sufficient cause; To act as a consultant for the SEI and to take such other actions as may be found necessary or desirable for carrying out the provisions of this ordinance.

SECTION 14-C

The SEI, as Secretary of the B of EE, shall keep the records of all meetings which records shall be open for inspection at all times. He shall also keep a record of all Certificates issued.

SECTION 14-D

Five (5) members of the B of EE present at any meeting shall constitute a quorum for the granting, revocation or suspension of Certificates and the transaction of other business and a majority vote of such quorum shall prevail.

SECTION 15 LICENSING

SECTION 15-A

Any person engaged in the business of wiring, building or installing electrical equipment or appliances in the City of Las Vegas, County of Clark, State of Nevada, shall first secure an EC license from the Supervisor of License and Revenue for which a fee of \$100.00 per year shall be charged.

Before applying for an EC license, applicant must first secure a Nevada State Contractor's License.

Each EC License shall expire as of January 31st, following the date of issue and shall be renewed by the Supervisor of License and Revenue upon application by the holder of the license and payment of the required fee at any time within thirty (30) days before the date of such expiration.

Each applicant shall furnish a bond of \$1,000.00 in favor of the City of Las Vegas that the licensee will comply with the provisions of all ordinances and regulations of the City; rules and regulations of the Department of Building and Safety and will indemnify the City, and all others, for any loss sustained by reason of injury or damage to person or property up to the amount of the bond.

Before applying for an electric sign contractor's license from the City of Las Vegas, the applicant shall have in his possession a valid Electric Sign Contractor's license issued by the State of Nevada, and either possess himself or have someone in his employ who possesses a valid Master Neon Electrician Certificate issued by the Board of Electrical Examiners. Before applying for a Fire Detection System, sound system, or signal system Contractor's license from the City of Las Vegas, the applicant shall have in his possession a valid Contractor's license for fire detection, sound or signal systems issued by the State of Nevada, and either possess himself or have someone in his employ who possesses a valid Master Technician Certificate issued by the Board of Electrical Examiners.

SECTION 15-B

No person, firm or corporation shall engage in the installation, maintenance, alterations, repair or construction of any electrical work, wiring devices, fixtures, appliances or equipment, inside or outside of any building, either by himself or his agents or employees, unless he holds an EC license and he, or one of his employees holds an ME Certificate issued by the City of Las Vegas except work done for and on the property of the United States of America, the City of Las Vegas, County of Clark, State of Nevada, any public utility, light and power, telephone or telegraph company.

All applications for ME examinations shall be made in writing to the SEI and must contain the address of the applicant's place of business, or residence, and show at least five (5) years' experience as an Electrical Journeyman. Applications shall be referred to the B of EE for investigation and recommendation. The applicant for ME Certificate shall pay to the Department of Building and Safety of the City of Las Vegas, the required fee of \$50.00. Said fee shall accompany the application. Any person failing to pass the examination shall pay a minimum of \$10.00 for filing fee and shall be refunded \$40.00 of said \$50.00 fee and shall allow a period of six (6) months to elapse before again making applications, at which time a new fee of \$50.00 shall again be paid. There shall be issued by the B of EE an ME Certificate to a person who has shown proper qualifications and paid the proper fee. Said ME Certificate shall be issued to the person taking the examination and is non-transferable.

Every such Master Electrician's Certificate shall expire December 31st of each year and shall be renewed by paying to the Department of Building and Safety the sum of \$15.00 within thirty-one (31) days of such expiration date. Should the holder of an ME Certificate fail to renew within thirty-one (31) days, but does so within thirty-two (32) days to ninety (90) days, the fee shall be doubled. Should he fail to renew within ninety (90) days he must apply for, pay the required fee of \$50.00 and pass another examination.

Every ME shall inform the B of EE, in writing, any change in his employment status within ten (10) days of such change.

The fees, examination, licensing and renewal procedure as outlined above shall apply in the same way for the Master Neon Electrician and the Master Technician.

Any person, firm or corporation, who, at the time of the effective date of this ordinance, is in possession of a valid fire detection, sound or signal system contractor's license issued by the State of Nevada, and who is engaged in, or has made application for a license to engage in the fire detection, sound or signal business in the City of Las Vegas, shall be issued a Master Technician Certificate by the Board of Electrical Examiners upon payment of the required fee of Fifty Dollars (\$50.00), and without the requirement of taking an examination, provided, however, application for such license under this clause must be made within thirty (30) days from the effective date of this ordinance, and if not so made, any person, firm or corporation, whether in existence now, or in the future, shall apply for a Master Technician Certificate and shall take an examination in the same manner as prescribed above for Master Electrician.

SECTION 15-C

Each and every person working at the trade of installing electrical wiring or electrical appliances, shall possess a valid Certificate of Competency issued by the City of Las Vegas.

It shall be the duty of the B of EE, or authorized agent, to furnish applications and conduct examinations and issue Certificates of Qualification for Journeyman Electricians. A Certificate of Qualification shall be issued to any person who makes application for such Certificate and pays to the City of Las Vegas the required fee of \$5.00 and successfully passes the examination conducted by the B of EE, or authorized

agent. Every Journeyman Electrician's Certificate of Competency shall remain in force and effect indefinitely from the date of issue, providing however, that all such Certificates must be validated yearly by the Department of Building and Safety at no cost to the holder. Such validation must be made prior to January 31st of each year. A Certificate may be revoked after hearing by the B of EE upon showing made that the holder thereof is unfit to hold such Certificate because of incompetency, willful violations of this Ordinance and other good cause. Applicants will be notified of the results of his examination within ten (10) days after the examination has been completed. If the applicant fails to pass the examination, he may apply for re-examination at the end of six (6) months.

SECTION 15-D

There shall be issued by the B of EE upon showing proper qualifications by examination, an Electrical Maintenance Certificate for persons engaged in the business of winding motors, repairing and maintaining electrical appliances, and electrical equipment who leave their shop only for the purpose of repairing and maintaining said motors, appliances and electrical equipment. The Certificate permits the changing or replacing of parts such as lamps, motors, switches, cords, fixtures and heating elements, but does not permit any work or changes which involve the extension of, or addition to, any wiring or the installation of any new equipment except when changing equipment for maintenance reasons. The applicant for a Maintenance Certificate shall pay to the Department of Building and Safety of the City of Las Vegas, County of Clark, State of Nevada, the sum of \$10.00 per annum. All Certificates shall expire on the 31st day of December following the date of issue and shall be renewed on payment of the required fee within thirty-one (31) days of such expiration date. Should the holder fail to renew within thirty-one (31) days, the fee shall be doubled. Should he fail to renew within ninety (90) days, he must pass another examination.

SECTION 16

Refrigeration maintenance repairmen shall not in the execution of their maintenance work, do any electrical work beyond the first opening point in the line and installers shall do no electrical work without first having an EC License and an ME Certificate.

SECTION 17

Upon presentation to the B of EE, in writing, of charges that the holder of any Certificate has violated any provisions of the Codes, or this Ordinance, regulating electrical installation and permits for the use of electricity; or is incompetent or unfit to comply with such provisions, the B of EE shall, after a hearing, make a decision. If, after such hearing, it is voted to revoke a Certificate, the holder shall be notified in writing by the B of EE that such a recommendation has been made and that unless he can show good and sufficient cause to the B of CC why the Certificate should not be revoked, then the B of CC shall revoke the same. This notification shall be delivered to the holder of the Certificate at least five (5) days in advance of the action of the B of CC of the City of Las Vegas. When the Certificate has been revoked, a new one shall not be granted to the same person until the B of EE determines that the applicant is qualified as provided in this Ordinance.

The B of CC may, at any time on its own motion and after notice and hearing and for good and proper cause, revoke any Certificate.

SECTION 18 INSTALLATION

All electrical installations, industrial, commercial and residential, shall be in conformity with this Ordinance, the National Electrical Code of the N.F.P.A. File 70 Series, rules and regulations of the serving utility company and with all approved standards for safety to life and property.

SECTION 18-A

BX (Armored Cable) shall not be used in or on any type of building in the City of Las Vegas.

SECTION 18-B

Non-metallic sheathed cable shall not be used in any industrial, commercial or multi-family dwelling, except it may be used in single family and two family dwellings.

SECTION 18-C

All non-metallic sheathed cables and metal raceways shall terminate in an approved metallic box, cabinet, cutout box, pull box, switch box, gutter or switchboard.

SECTION 18-D

Non-metallic sheathed cable, wherever used to connect appliances and motors, shall be protected from mechanical injury.

SECTION 18-E

Open or concealed, knob and tube wiring, shall not be used in the City of Las Vegas.

SECTION 18-F

All domestic range circuits installed, and removable ranges, shall terminate in an approved range receptacle box and approved receptacle.

SECTION 18-G

Double locknuts and bushings shall be required for all rigid metal conduit and nipples. Offset nipples shall be made up securely to insure a firm and mechanical connection and continuity of ground, the number and size of conductors shall in offset nipples be governed by Table 4 of the N. E. Code.

SECTION 18-H STRAPPING

Electrical metallic tubing shall be strapped and/or secured within 18" of each box connector and 18" each side of all couplings. Rigid metal conduit shall be strapped within 18" of each locknut and every 10' thereafter. Flexible metal conduit shall be strapped on each side of every bend within 12" of every connector and every 4' thereafter. Non-metallic sheathed cable shall be secured by approved staples or straps within 12" of every connector or box and every 4' thereafter.

SECTION 19 METALLIC RACEWAYS

SECTION 19-A

Galvanized or sherradized rigid-metal, heavy-wall conduit shall be required in concrete slabs, floors, walls or underground. Where installed on ground, or in earth fill, galvanized or sherradized rigid metal conduit shall have at least one (1) coat of approved asphaltic paint. Electrical metallic tubing and/or aluminum conduit may be used for both concealed or exposed work, except in the following places:

Concrete floors;

Concrete slabs;

Concrete walls in contact with earth;

Underground;

Or in earth fills.

This section shall not be construed as prohibiting the use of non-metallic approved raceways. All underground non-metallic raceways, except Nema approved for underground construction without concrete, shall be encased in a minimum 3-inch concrete envelope.

SECTION 19-B

Flexible metallic conduit may be installed above grade in buildings, provided it is concealed by the permanent construction of the building. Flexible connections to electrical equipment exposed to the weather shall consist of liquid-tight flexible conduit with approved fittings. All equipment connections of flexible conduit shall not exceed three (3) feet.

SECTION 20 SERVICES AND GROUNDING

SECTION 20-A

Each dwelling of an area of 400 sq. ft., or less, shall not have less than a 60 amp. exterior 3 wire 115-230 V service consisting of two (2) No. 6's and a No. 8 neutral. Dwellings of more than 400 sq. ft. shall have not less than a 100 amp 3 wire 115-230 V service consisting of two (2) No. 2's and a No. 4 neutral. Multiple unit apartment buildings three (3) or more separate dwelling units in one (1) building need not be governed by this requirement. The optional method of calculating single family dwellings, example #1(b) from the NEC shall not be used.

SECTION 20-B

All electrical equipment exposed to the weather shall be weatherproof, and of NEMA 3R construction where applicable.

All service entrance raceway shall be rigid galvanized, steel conduit or approved bus duct.

Service disconnecting means shall be installed at not more than 6'6" to top of operating handle from grade.

On the exterior of each service disconnecting means proper identification shall be provided for the characteristics of the supplied service. Such identification shall consist

of a stamped metal plate permanently attached to the cover of the disconnecting means or weather-resistant stenciling. All conductors supplying power to any building shall have a disconnecting means located on the exterior of the building except for accessory buildings to Single Family Dwellings.

No direct burial main service conductors shall be permitted unless approved by the utility company.

SECTION 20-C

Meter sockets shall not be installed more than 6'6" above or lower than 3' to the center of meter socket to grade.

SECTION 20-D

Current transformer enclosures shall not be installed higher than 7' from grade to top side. Enclosures for current transformers shall be: (1) for loads of 201 to 600 amperes, 24" x 36" x 11", (2) for loads of 601 to 1200 amperes, 36" x 48" x 11".

SECTION 20-E

Service riser weatherheads shall be located: (1) not less than eleven (11) feet above finished grade, (2) at least 12" above the point of attachment of the service drops, (3) not less than 3' from any door or window, (4) on that wall or support nearest to and parallel with the utility's serving lines.

Where the service riser is installed on a building of two (2) or more stories, the point of attachment of the service drops shall be even with or slightly above the second floor ceiling line, but not to exceed 25' above finished grade, or to a location approved by the serving utility company.

Where an existing service is being altered or moved, the existing point of attachment of the service drops may be used for a relative location of the service riser weatherhead, provided such service drops meet all clearance requirements and have one (1) point of attachment only.

SECTION 20-F

No type of service entrance cable shall be used as service entrance conductors for any service installation.

All service entrance conductors shall have the following insulation, or equivalent:

- a. Type RH for overhead installation.
- b. Type RHW for underground installation.

SECTION 20-G

In general, each service installation shall consist of one set of service drop conductors, one set of service entrance conductors and one main service disconnection means, only, for each type of service, except as follows:

- a. Each unit of a duplex dwelling may have a means of service disconnection for each service.
- b. Where additional sets of service entrance conductors are required because of single-phase, three-wire

capacities in excess of 600 amperes, each set of service entrance conductors shall be provided with a service entrance disconnecting means.

- c. Exceptions as provided in the National Electrical Code, Article 230-2.

Each service entrance disconnect shall be provided with a means for simultaneously disconnecting all ungrounded conductors from the source of supply, either manually or electrically.

Each service entrance disconnect shall have as an integral part thereof, or immediately adjacent thereto, adequate and approved over current and short circuit current protective elements.

The use of parallel disconnecting means for any single service shall be prohibited.

Each service entrance disconnecting means shall be readily and quickly accessible at all times for operation, renewal or inspection without requiring those to whom ready access is required to climb over or remove obstacles or resort to a portable ladder.

No portion of the service entrance equipment shall extend over the public right-of-way.

When the existing service, or any component part thereof, is altered the entire service and component parts shall be made to comply with this Ordinance.

SECTION 20-G-1

When an emergency AC supply circuit consisting of:

Two (2) wire single phase;

Three (3) wire single phase;

Four (4) wire three phase

is provided and is controlled by a transfer switch, the transfer switch shall have sufficient poles to open all conductors of the circuit, which includes the neutral and the emergency supply circuit neutral shall be effectively grounded in addition at the emergency supply source.

SECTION 20-G-2

There shall be no reduction in size of the neutral conductor below the size of the phase conductors in any three-phase, 4-wire star system.

SECTION 20-H

All service equipment shall be grounded in accordance with NEC Sections 250-92, 250-93 and 250-94 except:

All service equipment grounding shall include the use of rigid conduit and installed as required by NEC Section 250-72 and 250-92, and of a size as required by Table 250-94b.

For residential dwelling grounding, refer to Section 250-92.

In addition, for a grounded alternating current system, a common grounding conductor of a size as required by NEC Section 250-94a, shall be installed in the service equipment grounding conduit and connected in accordance with applicable provisions of NEC Article 250.

SECTION 20-I

All system ground clamps shall be accessible and be of the same material to which they are clamped. All residential bonding wire shall be No. 14 A. W. G. Copper, unless part of an approved cable assembly.

SECTION 20-J OUTSIDE CIRCUIT BREAKER INSTALLATIONS

Circuit breaker installations outside of buildings shall conform to the following:

1. Protective enclosures shall conform to Underwriter approved NEMA-3R for minimum protection.
2. Circuit breakers shall conform to the following:
 - a. Underwriter's Laboratories, Inc., Bulletin No. 489
 - b. Shall be magnetic or thermal-magnetic, ambient temperature compensated. Compensation shall permit the breaker to carry full NEC loading (80% of rating) in temperatures up to 75° C (167° F)

SECTION 20-K

No aerial electrical wiring shall be installed or maintained over or above the watered area of a pool, or within the area described by a 16 ft. radius drawn in any direction from the edge of the pool.

SECTION 21 BRANCH CIRCUITS

SECTION 21-A

No convenience receptacle outlet shall be installed on a general lighting circuit except receptacles for clocks or fixed lighting fixtures.

SECTION 21-B

Each general lighting branch circuit wired with No. 14 A.W.G. wire shall be protected by an over-current device of not more than fifteen (15) amperes. Each general lighting branch circuit wired with No. 12 A.W.G. wire shall be protected by an over-current device rated of not more than twenty (20) amperes.

SECTION 21-C

There shall be one general lighting circuit for every 500 sq. ft. of floor area in addition to the receptacle circuits called for in Paragraphs "D" and "F".

SECTION 21-D

Receptacle circuits (dwelling occupancies) for small appliance loads in kitchen, laundry, pantry, dining room and breakfast room, all receptacles shall be on two (2) or more small appliance circuits. No more than four (4) duplex receptacles shall be installed on any small appliance circuit. Small appliance circuits shall not extend beyond these rooms.

SECTION 21-E

All convenience type outlets shall be grounding type as required by N.E.C. (Reference: Section 210-22, sub-paragraph (b), 1959 Edition, N.E.C.)

SECTION 21-F CONVENIENCE RECEPTACLE CIRCUITS

Receptacle outlet circuits shall be wired with not smaller than No. 12 A.W.G. wire and shall be grounded as required by the N.E.C. and shall be protected by an over-current device rated at not more than twenty (20) amperes. At least one convenience outlet of the duplex grounding type shall be installed in each bathroom.

SECTION 21-G

Not more than eight (8) receptacles of the duplex convenience type shall be installed on any one circuit, except on appliance circuits where there shall be only four (4).

SECTION 21-H FIXED APPLIANCE CIRCUITS

Each fixed appliance (washer, dishwasher, cooler, oven, tabletop cooking unit, etc.) shall be supplied by a separate circuit. Each electric wall heater at one hundred and ten (110) volts, or more, shall be supplied by a separate circuit. All electrical hot water heaters shall be installed on a minimum of No. 10 wire.

Each evaporative cooler shall be on a separate circuit and have thermal overload protection.

SECTION 21-I

Each dwelling portable range circuit shall terminate with an approved range receptacle.

SECTION 22

SECTION 22-A

No pull-chain lighting fixture shall be installed within eight feet (8') of any conductive surface.

SECTION 22-B

Any walk-in closet of twenty square feet (20 sq. ft.) or more, in floor area shall have a light fixture.

SECTION 22-C

All direct burial cable shall be buried at a depth of not less than one and one-half feet (1-1/2') with six inches (6") of sand or screened earth above and below the conductors and must be inspected before back filling.

SECTION 22-D

All low voltage wiring, 25 volts or more (e.g., Keno circuits, slot machines, juke boxes, coin-operated amusement machines, communication circuits, control circuits, fire and burglar alarm circuits, public address and radio systems, remote control circuits, low voltage power circuits, etc.) in or on any commercial or industrial building shall be in a UL approved raceway, except certain fire alarm systems wherein special cable must be run exposed as it shall act as a thermostat to sound the signal and is further arranged to sound a trouble signal in the event of breakage in the wire. All such circuits which involve signals which protect human life such as nurses call signals in hospitals, etc. shall be in a UL approved raceway irrespective of the voltage involved.

SECTION 22-E

Trailer parks shall be wired for a minimum of 30 amperes 120-Volt capacity per trailer at 100% demand factor. A grounded disconnect shall be provided for each trailer. Each receptacle shall be three wire grounding type and weatherproof. No driven ground shall be permitted where metallic water service is available.

SECTION 22-F

At least one (1) telephone outlet shall be required for each dwelling unit.

SECTION 22-G

All panels and disconnects shall be readily accessible and shall have, at all times, a clear working space of at least three feet (3') in front.

SECTION 23-A

For installations not specifically covered by this Ordinance and/or the N.E.C., requirements shall be in accordance with engineering standards and practice and/or manufacturers' recommendations as approved by the Local Authority.

SECTION 23-B

Any air conditioning unit that is connected by permanent duct work and having a connected load of one horsepower or greater shall be connected with approved raceway which shall have a horsepower rated switch within five (5) feet of the air conditioning unit.

SECTION 24

Any person who shall fail to comply with any of the provisions of this Ordinance shall, upon conviction thereof, be punished by a fine of not less than \$25.00 nor more than \$500.00 and/or imprisonment in the City Jail for not more than six (6) months, or by any combination of such fine and imprisonment. Every day that such violation occurs shall be a separate offense.

SECTION 25

If any section, sub-section, sentence, clause or phrase of this Ordinance is, for any reason held to be unconstitutional, such decision shall not affect the validity of the remaining portions of this Ordinance. The Mayor and B of CC of the City of Las Vegas, County of Clark, State of Nevada, hereby declare that they would have passed this Ordinance, and each Section, sub-section, sentence, clause or phrase thereof irrespective of the fact that any one or more Sections, sub-sections, sentences, clauses or phrases be declared unconstitutional.

SECTION 26

All ordinances and sections of the City Code in conflict herewith are hereby repealed.

SECTION 27

The City Clerk and Clerk of the Board of Commissioners shall cause the SPECIALIZED ELECTRICAL ORDINANCE to be published as required by the Charter of the City of Las Vegas.

(END OF PART I)

The above and foregoing ordinance was first porposed and read by title to the Board of Commissioners on the 18th day of October, 1961, and referred to the following committee composed of Commissioners Mirabelli and Fountain for recommendation; thereafter the said committee reported favorably on said ordinance on the 3rd day of January, 1961, which was a regular meeting of said Board; that at said regular meeting the proposed ordinance was read by title to the Board of Commissioners as first introduced and adopted by the following vote:

VOTING "AYE": Commissioners Mirabelli, Levy, Fountain, Whipple and Mayor Gragson

VOTING "NAY": None ABSENT: None

APPROVED:

Oran K. Gragson
ORAN K. GRAGSON, MAYOR

ATTEST:

Edwina M. Cole
EDWINA M. COLE, CITY CLERK

AFFIDAVIT OF PUBLICATION

STATE OF NEVADA,)
COUNTY OF CLARK)ss

LOUIE MURATORE, being first duly sworn deposes and says That he is Foreman of the LAS VEGAS REVIEW-JOURNAL, a daily newspaper of general circulation, printed and published at Las Vegas, in the County of Clark, State of Nevada, and that the attached was continuously published in said newspaper for a period of TWO (2) insertions from JANUARY 7, 1962 to JANUARY 14, 1962 inclusive, being the issues of said newspaper for the following dates to-wit:

JANUARY 7, 14, 1962

That said newspaper was regularly issued and circulated on each of the dates above named.

SIGNED

L. Muratore
LOUIE MURATORE

Subscribed and sworn to
before me

this 14th day of JANUARY, 1962

NOTARY PUBLIC, IN AND FOR CLARK
COUNTY, NEVADA

My commission Expired September
28, 1965.

Jerald M. Walker

ORDINANCE NO. 935
AN ORDINANCE TO SAFEGUARD LIFE AND PROPERTY BY REGULATING AND PROVIDING FOR THE INSPECTION OF ELECTRICAL WIRING, DEVICES, APPLIANCES AND EQUIPMENT; CREATING THE OFFICE OF SENIOR ELECTRICAL INSPECTOR AND PRESCRIBING HIS AUTHORITY AND DUTIES; REQUIRING THAT NO ELECTRICAL EQUIPMENT SHALL BE INSTALLED WITHOUT FIRST SECURING A PERMIT THEREFOR; ADOPTING BY REFERENCE A SPECIALIZED ELECTRICAL ORDINANCE IN TWO PARTS, PART I ESTABLISHING RULES AND REGULATIONS FOR THE CITY OF LAS VEGAS AND PART II ADOPTING THE 1959 NATIONAL ELECTRICAL CODE AS RECOMMENDED BY THE NATIONAL FIRE PROTECTIVE ASSOCIATION AND APPROVED BY THE AMERICAN STANDARDS ASSOCIATION; CREATING A BOARD OF ELECTRICAL EXAMINERS; PROVIDING FOR THE LICENSING OF PERSONS, FIRMS OR CORPORATIONS ENGAGED IN THE BUSINESS OF ELECTRICAL CONTRACTING OR EMPLOYING ELECTRICIANS PERFORMING ELECTRICAL WORK; MAKING IT UNLAWFUL TO ENGAGE IN THE BUSINESS OF ELECTRICAL CONTRACTING OR TO UNDERTAKE THE EXECUTION OF ELECTRICAL WORK WITHOUT A LICENSE, EXCEPT AS OTHERWISE PROVIDED; MAKING IT UNLAWFUL TO SELL AT RETAIL CERTAIN ELECTRICAL PRODUCTS UNLESS SUCH PRODUCTS HAVE BEEN APPROVED BY THE ELECTRICAL INSPECTOR AND UNDERWRITERS' LABORATORIES, INC.; PROVIDING PENALTIES FOR THE VIOLATION THEREOF AND REPEALING TITLE 4, CHAPTER 3, SECTIONS (a) AND (b), MUNICIPAL CODE OF THE CITY OF LAS VEGAS, NEVADA, 1960 AND ALL ORDINANCES AND PARTS OF ORDINANCES IN CONFLICT THEREWITH AND PROVIDING OTHER MATTERS PROPERLY RELATED THERETO.

THE BOARD OF COMMISSIONERS OF THE CITY OF LAS VEGAS DO ORDAIN AS FOLLOWS:

SECTION 1. That those certain documents, three (3) copies of each which are on file in the office of the City Clerk of the City of Las Vegas, being marked and designated as follows:

- (a) Specialized Electrical Ordinance — Part I, and
- (b) Specialized Electrical Ordinance — Part II, otherwise known as the 1959 National Electrical Code as recommended by the National Fire Protective Association and approved by the American Standards Association, together with all tables of contents, definitions, articles, tables, indexes and appendices,

be and the same hereby are referred to as the "SPECIALIZED ELECTRICAL ORDINANCE OF THE CITY OF LAS VEGAS" and by this reference and adoption become the "SPECIALIZED ELECTRICAL ORDINANCE OF THE CITY OF LAS VEGAS" the same as if they were fully set forth herein.

SECTION 2. Any person, firm or corporation violating any of the provisions of this Ordinance shall, upon conviction thereof, be punished by a fine of not less than \$25.00 nor more than \$500.00 and/or imprisonment in the City Jail for not more than six months, or by any combination of such fine and imprisonment. Every day of such violation shall be a separate offense.

SECTION 3. All ordinances and sections of the City Code in conflict herewith are hereby repealed.

SECTION 4. This ordinance shall be in full force and effect from and after its passage and adoption as provided in Chapter II, Section 30 of the Charter of the City of Las Vegas.

(s) Oran K. Gragson,
ORAN K. GRAGSON, MAYOR

ATTEST:

(s) Edwina M. Cole,
EDWINA M. COLE, CITY CLERK

PART I
SECTION 1. This Ordinance shall be known as the "SPECIALIZED ELECTRICAL ORDINANCE" and may be cited as such and will be referred to as "THIS ORDINANCE".

Wherever a Section or part is referred to by number it shall be understood to refer to a Section or part of this Ordinance.

SECTION 2. DEFINITIONS

NBFU — National Board of Fire Underwriters

NEC — National Electric Code

B of CC — Mayor and Board of City Commissioners

ME — Master Electrician
— A person capable of laying out and supervising electrical work.

MNE — Master Neon Electrician. A person capable of laying out and supervising electric and gas-tube sign fabrication and erection.

MT — Master Technician. A person capable of laying out and supervising Commercial sound, radio, television, and low voltage control systems involving transistors or electric tubes.

SEI — Senior Electrical Inspector. An assistant to the Director of Building and Safety of the City of Las Vegas, Nevada.

UNIT — One home, apartment, store, warehouse, hall, auditorium, or each floor of a hotel.

EC — Electrical Contractor

B of EE — Board of Electrical Examiners

UL — Underwriters' Laboratories, Inc.

EI — Electrical Inspector

SECTION 3. ADMINISTRATION

There is hereby created the office of SEI who shall be a member of the Building and Safety Department under the supervision of the head of said Building and Safety Department. The person chosen to fill the office of SEI shall be a Master Electrician or Electrical Engineer of good moral character; shall be possessed of such executive ability as is requisite for the efficient performance of his duties and shall have a thorough knowledge of the standard materials and methods used in the installation of electric wiring, devices, appliances and equipment; shall have the knowledge and ability to read, decipher and understand electrical drawings, specifications and calculations; shall be well-versed in approved methods of electrical construction for safety of life and property; the statutes of the State of Nevada relating to electrical work, the rules and regulations issued under authority of the statutes; the National Electric Code, NFPA No. 70, approved by the American Standards Association and the electrical provisions of other installations and safety codes approved by the American Standards Association.

SECTION 4. DUTIES OF SENIOR HIS APPOINTED DEPUTIES

It shall be the duty of the Senior electrical Inspector and/or the EI to enforce the provisions of the Specialized Electrical Ordinance and inspect the construction, installation and repairs of all electric light or power wiring, fixtures, appliances and apparatus in or running to any building or structure in Las Vegas and to require the correction of any defects therein which are dangerous or likely to cause fire or are contrary to this Ordinance. The EI must require the correction of such defects as are actually hazardous to life or property.

The Senior Electrical Inspector shall supervise the activities of the Electrical Inspectors and determine that enforcement of the provisions of this Code is being carried out in a consistent, uniform manner.

In order that prompt, efficient and uniform inspections are made throughout the City, the Senior Electrical Inspector shall make and establish policies from time to time to rectify any conditions which may be detrimental to this result.

It shall be the duty of the Senior Electrical Inspector to arbitrate any differences between a permittee and the Electrical Inspectors concerning Code interpretations or matters of policy of the Electrical Inspection Division of the Department of Building and Safety. Matters not successfully resolved, shall be submitted to the Director of Building and Safety who may request that the B of EE re-

Sunday, January 7, 1962

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der a decision. Any decision so rendered may be appealed to the B of CC for a final decision. Such appeals to the B of CC shall be made in writing, through the Director of Building and Safety, and must be made within ten (10) days of any decision made by the B of EE.

The SEI shall ascertain that electrical wiring, fixtures, appliances and apparatus sold within the City for use within the City complies with the requirements of this Code, the UL and/or other approved testing agency.

It shall be unlawful for any person, firm or corporation to sell or offer to sell for use within the City of Las Vegas any electrical wiring, fixture, appliance or apparatus that does not conform to the requirements of this Code, the UL and/or any other approved testing agency.

SECTION 4-A

When a routine inspection or a Fire Marshall recommendation is made, the owner will not be required to pay an inspection fee, unless all, or parts, of said wiring appliances or equipment is condemned, or where such inspection is made upon request of the owner or user of said wiring, fixtures, apparatus or appliances, in which case fees as provided for permits for installation of new work shall be paid by the person requiring the inspection.

SECTION 4-B

It shall be the duty of the EI to inspect any and all work for which permits have been issued as soon as practicable after notice by the contractor that the work is ready for inspection. Inspection shall, when necessary, be made two or more times during the progress of installation. First, when work is roughed in and last when work is completed, and it shall be the duty of the EI to indicate inspection of any work by: a tag or label attached to the service switch wires or a certificate issued to the person taking out the permit. Such tag or label shall state the date, location and whether first or final inspection has been made. It shall be unlawful for any workman or any person to lath or otherwise conceal any electrical work until such first inspection tag has been placed.

SECTION 4-C

It shall be unlawful, for the SEI, or any of his assistants, to engage in the business, sale, installation or maintenance of electric wiring, devices, appliances or equipment, either directly or indirectly and they shall have no financial interest in any concern engaged in such business in the City of Las Vegas, County of Clark, State of Nevada, at any time while holding such office as herein provided for.

SECTION 5 CERTIFICATE

Upon application for inspection of any wiring, apparatus, fixtures or appliances as hereinafter provided, the EI shall, after inspection and examination, issue a certificate showing the result of such examination and any corrections in said work necessary to be made.

SECTION 6

UNLAWFUL INSTALLATION

If the EI shall find any part of any electric light or power wiring, appliances, apparatus or fixtures in or upon any building in the City of Las Vegas, County of Clark, State of Nevada, to have been installed without a permit or installed not in compliance with the provisions of this ordinance, said EI shall have the right and power to disconnect electrical service and place a seal upon the same, and shall at the same time give written notice of such disconnection to the owner or occupant of the building and the electrical power utility company. After wiring, fixtures, appliances or apparatus have been put in the condition required by this Ordinance, the seal so placed shall be removed by order of the EI.

SECTION 7

It shall be unlawful for any person to use any current in, through or by any means, such disconnected wiring, appliances, apparatus or fixtures, or attach otherwise for the supply of current to such disconnected wiring, fixtures, appliances or apparatus, or to any seal so placed.

SECTION 8 PERMITS

SECTION 8-A

No alterations or additions shall be made in existing wiring, nor shall any wiring be installed or done for the placing of any lights, power or heating devices, or any apparatus which generates, transmits, transforms or utilizes any electricity nor shall any alterations be made to any wiring system after final inspection without first notifying the EI, and securing a permit therefor. Application for such permit, describing such work, shall be made in writing by the person, firm, or corporation installing same, and the permit, when issued, shall be to such applicant. Each applicant shall state the location, by street and house number, and the permit shall be valid only for the location stated. A permit will not be required for minor repair work, such as repairing flush and snap switches, replacing fuses, changing lamp sockets and receptacles or fixtures, taping bare joints and repairing drop cords.

This Section shall not apply to wires installed in power houses and sub-stations, belonging to electric light and telephone companies operating under a franchise, granted by the City of Las Vegas, County of Clark, State of Nevada.

No other permit shall be issued to any applicant during the time that he shall fail to correct any defective electrical work ten (10) days after he has been duly notified to correct such defective work by the EI.

SECTION 8-B

Each application for a permit to install electrical wiring in Single Family residences and allied buildings (sheds, garages, etc.) must have attached thereto a drawing showing the electrical layout including the wiring and apparatus. Each application for a permit to install electrical wiring in commercial establishments (all other than single family residences) shall have attached thereto drawings showing in detail the proposed method of installing the wiring and apparatus, complete with load calculations and voltage drop in accordance with article 215-6 and as stated herein. When required by the Department of Building and Safety, these calculations shall be certified by a registered professional engineer, who is acquainted with the local codes and the local codes and the rules and regulations of the serving utility company.

SECTION 8-C

In order to secure a permit for the installation of electrical wiring, fixtures, appliances or apparatus,

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and before any addition to or alteration in any old installation of electrical wiring fixtures, appliances or apparatus is made, written application shall be made to the SEI, on blanks provided for that purpose by said SEI, and the applicant therefor shall pay the City of Las Vegas, in advance, all fees as provided in Permit Fee Section.

SECTION 8-D

For an electrical elevator there shall be a charge per horse power of the motor or motors used to serve it. This shall be for inspection on the power wiring to and including the branch circuit disconnect. The inspection from this point on will be any another governmental agency who will furnish to the Department of Building and Safety a copy of the final acceptance of the elevator prior to public use. For inspection of any electrical wiring, fixtures, apparatus, appliances or installation for which no fee is herein provided, a charge of \$4.00 per hour for additional time shall be made.

SECTION 8-E

Any person who shall commence any electrical work for which a permit is required by this Ordinance, without first having obtained a permit therefor shall, if subsequently permitted to obtain a permit, pay double the permit fee fixed by Permit Fee Schedule for such work provided, however, that this provision shall not apply to emergency work when it shall be proved to the satisfaction of the SEI that such work was urgently necessary and that it was not practical to obtain a permit therefore before the commencement of the work. In all such cases a permit must be obtained as soon as it is practical to do so and, if there be an unreasonable delay in obtaining such permit, a double fee as herein provided shall be charged.

SECTION 8-F OWNER'S PERMIT

Any permit required by this Ordinance may be issued to any person to do any construction or work regulated by this Ordinance in a single family dwelling used exclusively for living purposes, including the usual accessory buildings and quarters in connection with such buildings provided: (1) that such person is a bona fide owner of such dwellings, accessory buildings and quarters and (2) that the same are occupied by or designed to be occupied by said owner and (3) that said owner shall personally purchase all material and shall personally perform all labor in connection therewith and (4) that said owner shall file an affidavit that he understands the provisions of this ordinance and will comply therewith.

SECTION 8-G

Any person or firm desiring a permit to do electrical work shall, at the time of issuance, pay to the City of Las Vegas a fee based on the following table:

SCHEDULE OF FEES

Light, receptacle or switch outlet	\$4.00
Minimum Permit	\$0.20
Wall or ceiling space heaters	\$0.35
Blast coil heaters per kilowatt	\$0.35
Garbage grinder outlet	\$0.35
Dishwasher outlet	\$0.35
Clothes dryer outlet	\$0.35
Automatic clothes washer outlet	\$0.35
Electric range	\$0.35
Electric water heater	\$0.35
Each fixture or socket	\$0.15
Each mercury arc lamp and equipment	\$0.35
Each special purpose outlet	\$0.35
Each X-Ray unit and its appurtenances	\$5.00
Festoon lighting — first 3000 watts \$4.00 for additional 1000 watts	\$1.50
Total horsepower — all motors	
First horsepower	\$1.75
For each additional horsepower	\$0.35
Temporary power and lights — Temporary pole	\$4.00
Electric service, including first meter socket	\$3.00
For each additional meter socket	\$0.35
Permanently connected air conditioning service (heating-cooling)	\$1.50
Each generator, transformer or welder each KW or KVA capacity, shall be considered as one (1) horsepower in a motor. Fee for moving motors, generators, welders or transformers on same premises shall be 75 per cent of motor fee. Each motor generator set or frequency changes, the fee shall be 75 per cent greater than for the motors alone.	
Speaker outlets	\$0.15
Signal or alarm outlets	\$0.15
Amplifiers	\$0.50
Control panels	\$0.25
T.V. outlets — master systems only	\$0.15
Radio outlets	\$0.15
Main control racks	\$1.00
T.V. and radio antennas — master system only	\$0.75

SECTION 9 RULES GOVERNING

INSTALLATION

Except as otherwise herein provided all electrical wiring installation or electrical fixtures, apparatus or appliances for furnishing light, heat and/or power introduced into or placed in or on any building or structure in the City of Las Vegas, County of Clark, State of Nevada, shall be in conformity with the rules and requirements of the NEC and this Ordinance, and all fittings and material used in such installation must be sanctioned in the list of electrical fittings published by the UL. The "1959 National Electrical Code" is Part II of the "Specialized Electrical Ordinance" and shall be considered in conjunction with this Part I as the Complete Electrical Ordinance of the City of Las Vegas. Part II shall be adopted by reference at the same time as Part I.

SECTION 10 NOTICE OF

INSPECTION

Upon the completion of the installation of any electrical wiring, fixtures, appliances or apparatus in or on any building, it shall be the duty of the person doing the work to notify the EI, who shall inspect the same within twenty - four (24) hours and, if approved, there shall be issued a certificate of final electrical inspection which shall contain the date of such inspection and an outline of the result. It shall be unlawful for any person to turn on or connect the current with such installation until such certificate shall be issued; and it shall also be unlawful to make any change, alteration or extension in or to the installation of any electrical wiring, fixtures or appliances or apparatus, in or on any building after final electrical inspection, without notifying the EI and securing a permit to do so, except for emergency repair work as herein noted.

When any part of a wiring installation is to be concealed by a permanent placement of parts of the building, the person performing the electrical installation shall notify the

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EI at least twenty-four (24) hours prior to such proposed concealment and such parts shall not be concealed until they have been inspected and approved by the EI; provided, that on large installations where the concealment of parts of the wiring proceed continuously, the person installing the wiring shall give the EI due notice as above specified and inspections shall be made periodically during the progress of the work. The EI shall have the authority to remove or to require the removal of any obstruction that prevents proper inspection of any electrical equipment or installation.

SECTION 11 RIGHTS AND POWERS

The SEI and EI shall have the right to enter any premises at all reasonable hours for the purpose of inspecting the electrical wiring, fixtures, appliances or apparatus therein.

SECTION 12

Nothing in this Ordinance shall be construed to relieve or lessen the responsibility of any person owning, operating or installing any electrical wires, fixtures, appliances, apparatus, construction or equipment for damages to any one injured or damages either to the person or property by any defect therein; nor shall the City or any employees thereof be held as assuming any liability by reason of the inspections authorized herein or the certificate of inspection issued by the EI.

SECTION 13

Each and every day's continuation of a violation and/or any of the provisions of this Ordinance shall be deemed to be a separate and distinct offense.

SECTION 14 BOARD OF ELECTRICAL EXAMINERS

SECTION 14-A

There is hereby created a B of EE which shall consist of nine (9) members appointed by the B of CC as follows:

One (1) representative of an electric utility company;

Two (2) Master electricians as representative of the Electrical Contractors

One (1) Master Neon Electrician as representative of the Electric Sign Contractors.

One (1) Master Technician as representative of the sound or signal system contractors.

One (1) Electrical engineer registered in and for the State of Nevada

Two (2) Journeyman electricians

One (1) Layman and the SEI or his representative to act as secretary, provided that the SEI or his representative shall have no vote.

Appointments shall be made for terms of two (2) years, but any member may for cause, be removed from office at any time by the B of CC.

SECTION 14-B DUTIES OF B OF EE

It shall be the duty of the B of EE to furnish questions to the Personnel Department of the City of Las Vegas in such numbers that the Department can conduct examinations for applicants for Master Electrician Certificates, Master Neon Electrician Certificates and Master Technician Certificates. Such examinations shall be monitored by the Personnel Department and the examination papers graded by the B of EE. The B of EE shall issue Certificates of Competency to those applicants who successfully pass such examinations. It shall be the duty of the B of EE to recommend revocation or suspension of Certificates for good and sufficient cause. To act as a consultant for the SEI and to take such other actions as may be found necessary or desirable for carrying out the provisions of this ordinance.

SECTION 14-C

The SEI, as Secretary of the B of EE, shall keep the records of all meetings which records shall be open for inspection at all times. He shall also keep a record of all Certificates issued.

SECTION 14-D

Five (5) members of the B of EE present at any meeting shall constitute a quorum for the granting, revocation or suspension of Certificates and the transaction of other business and a majority vote of such quorum shall prevail.

SECTION 15

SECTION 15-A

Any person engaged in the business of wiring, building or installing electrical equipment or appliances in the City of Las Vegas, County of Clark, State of Nevada, shall first secure an EC license from the Supervisor of License and Revenue for which a fee of \$100.00 per year shall be charged.

Before applying for an EC license, applicant must first secure a Nevada State Contractor's License.

Each EC License shall expire as of January 31st, following the date of issue and shall be renewed by the Supervisor of License and Revenue upon application by the holder of the license and payment of the required fee at any time within thirty (30) days before the date of such expiration.

Each applicant shall furnish a bond of \$1,000.00 in favor of the City of Las Vegas that the licensee will comply with the provisions of all ordinances and regulations of the City, rules and regulations of the Department of Building and Safety and will indemnify the City and all others, for any loss sustained by reason of injury or damage to person or property up to the amount of the bond.

Before applying for an electric sign contractor's license from the City of Las Vegas, the applicant shall have in his possession a valid Electric Sign Contractor's license issued by the State of Nevada, and either possess himself or have someone in his employ who possesses a valid Master Neon Electrician Certificate issued by the Board of Electrical Examiners. Before applying for a Fire detection System, sound system, or signal system Contractor's license from the City of Las Vegas, the applicant shall have in his possession a valid Contractor's license for fire detection, sound or signal systems issued by the State of Nevada, and either possess himself or have someone in his employ who possesses a valid Master Technician Certificate issued by the Board of Electrical Examiners.

SECTION 15-B

No person, firm or corporation shall engage in the installation, maintenance, alterations, repair or construction of any electrical work, wiring devices, fixtures, appliances or equipment, inside or outside of any building, either by himself or his agents or employees, unless he holds an EC license and he or one of his employees holds an ME Certificate issued by

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the City of Las Vegas except work done for and on the property of the United States of America, the City of Las Vegas, County of Clark, State of Nevada, any public utility, light and power, telephone or telegraph company.

All applications for ME examinations shall be made in writing to the SEI and must contain the address of the applicant's place of business, or residence, and show at least give (5) years' experience as an Electrical Journeyman. Applications shall be referred to the B of EE for investigation and recommendation. The applicant for ME Certificate shall pay to the Department of Building and Safety of the City of Las Vegas, the required fee of \$50.00. Said fee shall accompany the application. Any person failing to pass the examination shall pay a minimum of \$10.00 for filing fee and shall be refunded \$40.00 of said \$50.00 fee and shall allow a period of six (6) months to elapse before again making applications, at which time a new fee of \$50.00 shall again be paid. There shall be issued by the B of EE an ME Certificate to a person who has shown proper qualifications and paid the proper fee. Said ME Certificate shall be issued to the person taking the examination and is non-transferable.

Every such Master Electrician's Certificate shall expire December 31st of each year and shall be renewed by paying to the Department of Building and Safety the sum of \$15.00 within thirty-one (31) days of such expiration date. Should the holder of an ME Certificate fail to renew within thirty-one (31) days, but does so within thirty-two (32) days to ninety (90) days, the fee shall be doubled. Should he fail to renew within ninety (90) days he must apply for, pay the required fee of \$50.00 and pass another examination.

Every ME shall inform the B of EE, in writing, any change in his employment status within ten (10) days of such change.

The fees, examination, licensing and renewal procedure as outlined above shall apply in the same way for the Master Neon Electrician and the Master Technician.

Any person, firm or corporation, who, at the time of the effective date of this Ordinance, is in possession of a valid fire detection, sound or signal system contractor's license, issued by the State of Nevada, and who is engaged in, or has made application for a license to engage in the fire detection, sound or signal business in the City of Las Vegas, shall be issued a Master Technician Certificate by the Board of Electrical Examiners upon payment of the required fee of Fifty Dollars (\$50.00), and without the requirement of taking an examination, provided, however, application for such license under this clause must be made within thirty (30) days from the effective date of this Ordinance, and if not so made, any person, firm or corporation, whether in existence now, or in the future, shall apply for a Master Technician Certificate and shall take an examination in the same manner as prescribed above for Master Electrician.

SECTION 15-C

Each and every person working at the trade of installing electrical wiring or electrical appliances, shall possess a valid Certificate of Competency issued by the City of Las Vegas.

It shall be the duty of the B of EE, or authorized agent, to furnish applications and conduct examinations and issue Certificates of Qualification for Journeyman Electricians. A Certificate of Qualification shall be issued to any person who makes application for such Certificate and pays to the City of Las Vegas the required fee of \$5.00 and successfully passes the examination conducted by the B of EE, or authorized agent. Every Journeyman Electrician's Certificate of Competency shall remain in force and effect indefinitely from the date of issue, providing however, that all such Certificates must be validated yearly by the Department of Building and Safety at no cost to the holder. Such validation must be made prior to January 31st of each year. A Certificate may be revoked after hearing by the B of EE upon showing made that the holder thereof is unfit to hold such Certificate because of incompetency, willful violations of this Ordinance and other good cause. Applicants will be notified of the results of his examination within ten (10) days after the examination has been completed. If the applicant fails to pass the examination, he may apply for re-examination at the end of six (6) months.

SECTION 15-D

There shall be issued by the B of EE upon showing proper qualifications by examination, an Electrical Maintenance Certificate for persons engaged in the business of winding motors, repairing and maintaining electrical appliances, and electrical equipment, who leave their shop only for the purpose of repairing and maintaining said motors, appliances and electrical equipment. The Certificate permits the changing or replacing of parts such as lamps, motors, switches, cords, fixtures and heating elements, but does not permit any work or changes which involve the extension of, or addition to, any wiring or the installation of any new equipment except when changing equipment for maintenance reasons. The applicant for a Maintenance Certificate shall pay to the Department of Building and Safety of the City of Las Vegas, County of Clark, State of Nevada, the sum of \$10.00 per annum. All Certificates shall expire on the 31st day of December following the date of issue and shall be renewed on payment of the required fee within thirty-one (31) days of such expiration date. Should the holder fail to renew within thirty-one (31) days, the fee shall be doubled. Should he fail to renew within ninety (90) days, he must pass another examination.

SECTION 16

Refrigeration maintenance repairmen shall not in the execution of their maintenance work, do any electrical work beyond the first opening point in the line and installers shall do no electrical work without first having an EC License and an ME Certificate.

SECTION 17

Upon presentation to the B of EE, in writing, of charges that the holder of any Certificate has violated any provisions of the Codes, or this Ordinance, regulating electrical installation and permits for the use of electricity, or is incompetent or unfit to comply with such provisions, the B of

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EE shall, after a hearing, make a decision. If, after such hearing, it is voted to revoke a Certificate, the holder shall be notified in writing by the B of EE that such a recommendation has been made and that unless he can show good and sufficient cause to the B of CC why the Certificate should not be revoked, then the B of CC shall revoke the same. This notification shall be delivered to the holder of the Certificate at least five (5) days in advance of the action of the B of CC of the City of Las Vegas. When the Certificate has been revoked, a new one shall not be granted to the same person until the B of EE determines that the applicant is qualified as provided in this Ordinance.

The B of CC may, at any time on its own motion and after notice and hearing and for good and proper cause, revoke any Certificate.

SECTION 18 INSTALLATION

All electrical installations, industrial, commercial and residential, shall be in conformity with this Ordinance, the National Electrical Code of the N.E.P.A. File 70 Series, rules and regulations of the serving utility company and with all approved standards for safety to life and property.

SECTION 18-A

BX (Armored Cable) shall not be used in or on any type of building in the City of Las Vegas.

SECTION 18-B

Non-metallic sheathed cable shall not be used in any industrial, commercial or multi-family dwelling, except it may be used in single family and two family dwellings.

SECTION 18-C

All non-metallic sheathed cables and metal raceways shall terminate in an approved metallic box, cabinet, cutout box, pull box, switch box, gutter or switchboard.

SECTION 18-D

Non-metallic sheathed cable, wherever used to connect appliances and motors, shall be protected from mechanical injury.

SECTION 18-E

Open or concealed, knob and tube wiring, shall not be used in the City of Las Vegas.

SECTION 18-F

All domestic range circuits installed, and removable ranges, shall terminate in an approved range receptacle box and approved receptacle.

SECTION 18-G

Double locknuts and bushings shall be required for all rigid metal conduit and nipples. Offset nipples shall be made up securely to insure a firm and mechanical connection and continuity of ground, the number and size of conductors shall in offset nipples be governed by Table 4 of the N. E. Code.

SECTION 18-H STRAPPING

Electrical metallic tubing shall be strapped and/or secured within 18" of each box connector and 18" each side of all couplings. Rigid metal conduit shall be strapped within 18" of each locknut and every 10' thereafter. Flexible metal conduit shall be strapped on each side of every bend within 12" of every connector and every 4' thereafter. Non-metallic sheathed cable shall be secured by approved staples or straps within 12" of every connector or box and every 4' thereafter.

SECTION 19 METALLIC RACEWAYS

SECTION 19-A

Galvanized or sherradized rigid metal, heavy wall conduit shall be required in concrete slabs, floors, walls or underground. Where installed on ground, or in earth fill, galvanized or sherradized rigid metal conduit shall have at least one (1) coat of approved asphaltic paint. Electrical metallic tubing and/or aluminum conduit may be used for both concealed or exposed work, except in the following places:

- Concrete floors;
- Concrete slabs;
- Concrete walls in contact with earth;
- Underground;
- Or in earth fills.

This section shall not be construed as prohibiting the use of non-metallic approved raceways. All underground non-metallic raceways, except Nema approved for underground construction without concrete shall be encased in a minimum 3-inch concrete envelope.

SECTION 19-B

Flexible metallic conduit may be installed above grade in buildings, provided it is concealed by the permanent construction of the building. Flexible connections to electrical equipment exposed to the weather shall consist of liquid-tight flexible conduit with approved fittings. All equipment connections of flexible conduit shall not exceed three (3) feet.

SECTION 20 SERVICES AND GROUNDING

SECTION 20-A

Each dwelling of an area of 400 sq. ft. or less, shall not have less than a 60 amp. exterior 3 wire 115-230 V service consisting of two (2) No. 6's and a No. 8 neutral. Dwellings of more than 400 sq. ft. shall have not less than a 100 amp 3 wire 115-230 V service consisting of two (2) No. 2's and a No. 4 neutral. Multiple unit apartment building three (3) or more separate dwelling units in one (1) building need not be governed by this requirement. The optional method of calculating single family dwellings, example No.1(b) from the NEC shall not be used.

SECTION 20-B

All electrical equipment exposed to the weather shall be weather proof, and of NEMA 3R construction where applicable.

All service entrance raceway shall be rigid galvanized, steel conduit or approved bus duct.

Service disconnecting means shall be installed at not more than 6'6" to top of operating handle from grade.

On the exterior of each service disconnecting means proper identification shall be provided for the characteristics of the supplied service. Such identification shall consist of a stamped metal plate permanently attached to the cover of the disconnecting means or weather-resistant stenciling. All conductors supplying power to any building shall have a disconnecting means located on the exterior of the building except for accessory buildings to Single Family Dwellings.

No direct burial main service conductors shall be permitted unless approved by the utility company.

SECTION 20-C

Meter sockets shall not be installed more than 6'6" above or lower than 3' to the center of meter socket to grade.

SECTION 20-D

Current transformer enclosures shall not be installed higher than 7' from grade to top side. Enclosures for current transformers shall be: (1) for loads of 201 to 600 amperes, 24" x 36" x 11", (2) for loads of 601 to 1200 amperes, 36" x 48"

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SECTION 20-E

Service riser weatherheads shall be located: (1) not less than eleven (11) feet above finished grade, (2) at least 12" above the point of attachment of the service drops, (3) not less than 3' from any door or window, (4) on that wall or support nearest to and parallel with the utility's serving lines.

Where the service riser is installed on a building of two (2) or more stories, the point of attachment of the service drops shall be even with or slightly above the second floor ceiling line, but not to exceed 25' above finished grade, or to a location approved by the serving utility company.

Where an existing service is being altered or moved, the existing point of attachment of the service drops may be used for a relative location of the service riser weatherhead, provided such service drops meet all clearance requirements and have one (1) point of attachment only.

SECTION 20-F

No type of service entrance cable shall be used as service entrance conductors for any service installation.

All service entrance conductors shall have the following insulation, or equivalent:

- Type RH for overhead installation.
- Type RHW for underground installation.

SECTION 20-G

In general, each service installation shall consist of one set of service drop conductors, one set of service entrance conductors and one main service disconnection means, only, for each type of service, except as follows:

- Each unit of a duplex dwelling may have a means of service disconnection for each service.

- Where additional sets of service entrance conductors are required because of single - phase, three-wire capacities in excess of 600 amperes, each set of service entrance conductors shall be provided with a service entrance disconnecting means.

c. Exceptions as provided in the National Electrical Code, Article 230-2.

Each service entrance disconnect shall be provided with a means for simultaneously disconnecting all underground conductors from the source of supply, either manually or electrically.

Each service entrance disconnect shall have as an integral part thereof, or immediately adjacent thereto, adequate and approved over current and short circuit current protective elements.

The use of parallel disconnecting means for any single service shall be prohibited.

Each service entrance disconnecting means shall be readily and quickly accessible at all times for operation, renewal or inspection without requiring those to whom ready access is required to climb over or remove obstacles or resort to a portable ladder.

No portion of the service entrance equipment shall extend over the public right-of-way.

When the existing service, or any component part thereof, is altered the entire service and component parts shall be made to comply with this Ordinance.

SECTION 20-G-1

When an emergency AC supply circuit consisting of:

- Two (2) wire single phase;
- Three (3) wire single phase;
- Four (4) wire three phase

is provided and is controlled by a transfer switch, the transfer switch shall have sufficient poles to open all conductors of the circuit, which includes the neutral and the emergency supply circuit neutral shall be effectively grounded in addition at the emergency supply source.

SECTION 20-G-2

There shall be no reduction in size of the neutral conductor below the size of the phase conductors in any three-phase, 4-wire star system.

SECTION 20-H

All service equipment shall be grounded in accordance with NEC Sections 250-92, 250-93 and 250-94 except:

All service equipment grounding shall include the use of rigid conduit and installed as required by NEC Section 250-72 and 250-92, and of a size as required by Table 250-94b.

For residential dwelling grounding, refer to Section 250-92.

In addition, for a grounded alternating current system, a common grounding conductor of a size as required by NEC Section 250-94a, shall be installed in the service equipment grounding conduit and connected in accordance with applicable provisions of NEC Article 250.

SECTION 20-I

All system ground clamps shall be accessible and be of the same material to which they are clamped. All residential bonding wire shall be No. 14 A. W. G. Copper, unless part of an approved cable assembly.

SECTION 20-J OUTSIDE CIRCUIT BREAKER INSTALLATIONS

Circuit breaker installations outside of buildings shall conform to the following:

- Protective enclosures shall conform to Underwriter approved NEMA-3R for minimum protection.

- Circuit breakers shall conform to the following:

- Underwriter's Laboratories, Inc., Bulletin No. 489
- Shall be magnetic or thermal - magnetic, ambient temperature compensated. Compensation shall permit the breaker to carry full NEC loading (80 percent of rating) in temperatures up to 75 degrees C (167 degrees F)

SECTION 20-K

No aerial electrical wiring shall be installed or maintained over or above the watered area of a pool, or within the area described by a 16 ft. radius drawn in any direction from the edge of the pool.

SECTION 21 BRANCH CIRCUITS

SECTION 21-A

No convenience receptacle outlet shall be installed on a general lighting circuit except receptacles for clocks or fixed lighting fixtures.

SECTION 21-B

Each general lighting branch circuit wired with No. 14 A.W.G. wire shall be protected by an over-current device of not more than fifteen (15) amperes. Each general lighting branch circuit wired with No. 12 A.W.G. wire shall be protected by an over-current device rated of not more

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than twenty (20) amperes.

SECTION 21-C
There shall be one general lighting circuit for every 500 sq. ft. of floor area in addition to the receptacle circuits called for in Paragraphs "D" and "F".

SECTION 21-D
Receptacle circuits (dwelling occupancies) for small appliance loads in kitchen, laundry, pantry, dining room and breakfast room, all receptacles shall be on two (2) or more small appliance circuits. No more than four (4) duplex receptacles shall be installed on any small appliance circuit. Small appliance circuits shall not extend beyond these rooms.

SECTION 21-E
All convenience type outlets shall be grounding type as required by N.E.C. (Reference: Section 210-22, subparagraph (b), 1959 Edition, N.E.C.)

SECTION 21-F CONVENIENCE RECEPTACLE CIRCUITS
Receptacle outlet circuits shall be wired with not smaller than No. 12 A.W.G. wire and shall be grounded as required by the N.E.C. and shall be protected by an over-current device rated at not more than twenty (20) amperes. At least one convenience outlet of the duplex grounding type shall be installed in each bathroom.

SECTION 21-G
Not more than eight (8) receptacles of the duplex convenience type shall be installed on any one circuit, except on appliance circuits where there shall be only four (4).

SECTION 21-H FIXED APPLIANCE CIRCUITS
Each fixed appliance (washer, dishwasher, cooler, oven, tabletop cooking unit, etc.) shall be supplied by a separate circuit. Each electric wall heater at one hundred and ten (110) volts, or more, shall be supplied by a separate circuit. All electrical hot water heaters shall be installed on a minimum of No. 10 wire.

Each evaporative cooler shall be on a separate circuit and have thermal overload protection.

SECTION 21-I
Each dwelling portable range circuit shall terminate with an approved range receptacle.

SECTION 22
SECTION 22-A

No pull-chain lighting fixture shall be installed within eight feet (8') of any conductive surface.

SECTION 22-B

Any walk-in closet of twenty square feet (20 sq. ft.) or more, in floor area shall have a light fixture.

SECTION 22-C

All direct burial cable shall be buried at a depth of not less than one and one-half feet (1-1/2') with six inches (6") of sand or screened earth above and below the conductors and must be inspected before back-filling.

SECTION 22-D

All low voltage wiring, 25 volts or more (e.g., Keno circuits, fire and burglar boxes, coin-operated amusement machines, communication circuits, control circuits, fire and burglar alarm circuits, public address and radio systems, remote control circuits, low voltage power circuits, etc.) in or on any commercial or industrial building shall be in a UL approved raceway, except certain fire alarm systems wherein special cable must be run exposed as it shall act as a thermostat to sound the signal and is further arranged to sound a trouble signal in the event of breakage in the wire. All such circuits which involve signals which protect human life such as nurses call signals in hospitals, etc. shall be in a UL approved raceway irrespective of the voltage involved.

SECTION 22-E

Trailer parks shall be wired for a minimum of 30 amperes 120-volt capacity per trailer at 100 percent demand factor. A grounded disconnect shall be provided for each trailer. Each receptacle shall be three wire grounding type and weatherproof. No driven ground shall be permitted where metallic water service is available.

SECTION 22-F

At least one (1) telephone outlet shall be required for each dwelling unit.

SECTION 22-G

All panels and disconnects shall be readily accessible and shall have, at all times, a clear working space of at least three feet (3') in front.

SECTION 23-A

For installations not specifically covered by this Ordinance and/or the N.E.C., requirements shall be in accordance with engineering standards and practice and/or manufacturers' recommendations as approved by the Local Authority.

SECTION 23-B

Any air conditioning unit that is connected by permanent duct work and having a connected load of one horsepower or greater shall be connected with approved raceway which shall have a horsepower rated switch within five(5) feet of the air conditioning unit.

SECTION 24

Any person who shall fail to comply with any of the provisions of this Ordinance shall, upon conviction thereof, be punished by a fine of not less than \$25.00 nor more than \$500.00 and/or imprisonment in the City Jail for not more than six (6) months, or by any combination of such fine and imprisonment. Every day that such violation occurs shall be a separate offense.

SECTION 25

If any section, sub-section, sentence, clause or phrase of this Ordinance is, for any reason held to be unconstitutional, such decision shall not affect the validity of the remaining portions of this Ordinance. The Mayor and Board of the City of Las Vegas, County of Clark, State of Nevada, hereby declare that they would have passed this Ordinance, and each Section, sub-section, sentence, clause or phrase thereof irrespective of the fact that any one or more Sections, sub-sections, sentences, clauses or phrases be declared unconstitutional.

SECTION 26

All ordinances and sections of the City Code in conflict herewith are hereby repealed.

SECTION 27

The City Clerk and Clerk of the Board of Commissioners shall cause the SPECIALIZED ELECTRICAL ORDINANCE to be published as required by the Charter of the City of Las Vegas. The above and foregoing ordinance was first proposed and read by title to the Board of Commissioners on the 18th day of October, 1961, and referred to the following committee composed of Commissioners Mirabelli and Fountain for recommendation; thereafter the said committee reported favorably on said ordinance on the 3rd day of January, 1962, which was a regular meeting of said Board; that at said regular meeting the proposed ordinance was read by title to the Board of Commissioners as first introduced and adopted by the following vote:

VOTING "AYE": Commissioners Mirabelli, Levy, Fountain, Whipple and Mayor Gragson
VOTING "NAY": None
ABSENT: None
APPROVED

(s) Oran K. Gragson
ORAN K. GRAGSON, MAYOR
ATTEST:
(s) Edwina M. Cole
EDWINA M. COLE, CITY CLERK
Jan. 7, 14.