

ORDINANCE NO. 289

AN ORDINANCE RELATING TO BUILDING CODE, ADOPTING BY REFERENCE "BUILDING CODE FOR COLORADO CITIES AND TOWNS," AS AMENDED HEREIN; AND FURTHER ADOPTING BY REFERENCE THE "1947 NATIONAL ELECTRICAL CODE, STANDARD OF THE NATIONAL BOARD OF FIRE UNDERWRITERS, AS AMENDED HEREIN, AND FURTHER ADOPTING BY REFERENCE THE COLORADO STATE PLUMBING CODE, REVISED 1947, WITH AMENDMENTS TO 1949; STANDARDS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS FOR THE PREVENTION OF DUST EXPLOSIONS IN STARCH FACTORIES, TERMINAL GRAIN ELEVATORS, FLOUR AND FEED MILLS, PAMPHLET NUMBER 61 OF THE NATIONAL BOARD OF FIRE UNDERWRITERS, FEBRUARY, 1948; FEDERAL SPECIFICATIONS CCC-D-746; STANDARD FOR PLACES OF OUTDOOR ASSEMBLY, GRANDSTANDS, AND TENTS, "ASA-Z-20-3, 1949; AMERICAN SOCIETY FOR TESTING MATERIALS STANDARDS, 1949; AMERICAN STANDARD BUILDING CODE REQUIREMENTS FOR MASONRY, "A41.1-1944"; BUILDING REGULATIONS FOR REINFORCED CONCRETE, "ACI 318-41"; AMERICAN STANDARD REGULATIONS FOR REINFORCED CONCRETE, "A89.1-1948"; AMERICAN STANDARD BUILDING REQUIREMENTS FOR STRUCTURAL STEEL (RIVETED, BOLTED, OR WELDED CONSTRUCTION) "A57.1-1943"; MANUAL OF AMERICAN INSTITUTE OF STEEL CONSTRUCTION, 1947; BULLETIN V, JAN. 1947 OF THE AMERICAN IRON AND STEEL INSTITUTE, SECTIONS 11 AND 12"; AMERICAN STANDARD BUILDING CODE REQUIREMENTS FOR STEEL JOIST CONSTRUCTION, "A87.1-1947"; LIGHT GAGE STEEL DESIGN MANUAL, JAN. 1949; "WOOD HANDBOOK" OF THE U. S. DEPT. OF AGRICULTURE, 1940; "WOOD STRUCTURAL DESIGN DATA" VOL. 1, 2nd EDITION 1948; NATIONAL DESIGN SPECIFICATIONS FOR STRESS-GRADED LUMBER AND ITS FASTENINGS" 1944; Revised 1948; SPECIFICATIONS FOR FIRE TESTS OF BUILDING CONSTRUCTION AND MATERIALS, "E119-47 OF AMERICAN SOCIETY OF TESTING MATERIALS; AMERICAN STANDARD BUILDING CODE REQUIREMENTS FOR LIGHT AND VENTILATION, "A53.1-1946"; AMERICAN STANDARD EXITS CODE, "10th. EDITION, APPROVED DEC. 29, 1949; COMMERCIAL STANDARD CS99-42, "GAS FLOOR FURNACES, GRAVITY CIRCULATING TYPE"; COMMERCIAL STANDARD CS113-44, "OIL BURNING FLOOR FURNACES EQUIPPED WITH VAPORIZING POT TYPE BURNERS"; INSTALLATION OF AIR CONDITIONING, WARM AIR HEATING, AIR COOLING, AND VENTILATING SYSTEMS, NBFU PAMPHLET NO. 90-1950 Edition; CODE AND MANUAL FOR THE DESIGN AND IN-

STALLATION OF WARM AIR WINTER AIR CONDITIONS SYSTEM MANUAL 9, 4th EDITION, 1950; GRAVITY CODE AND MANUAL FOR THE DESIGN AND INSTALLATION OF GRAVITY WARM AIR HEATING SYSTEM MANUAL 5, 3rd. EDITION 1947; THE AMERICAN GAS ASSOCIATION APPROVED REQUIREMENTS FOR CENTRAL HEATING GAS APPLIANCES "Z21.13-1945, ADDENDA, PART XVII TO PART XX EFFECTIVE JAN. 1, 1950; PARTS I, II, V, VI EFFECTIVE JAN. 1, 1951; AMERICAN GAS ASSOCIATION REQUIREMENTS AND RECOMMENDED PRACTICE FOR HOUSE PIPING AND APPLIANCE INSTALLATION, NO. 1950; STANDARDS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS FOR LIQUIFIED PETROLEUM GASES (N. B. F. U. PAMPHLET NO. 53)"; COMMERCIAL STANDARDS CS75-42, AUTOMATIC MECHANICAL DRAFT OIL BURNERS DESIGNED FOR DOMESTIC INSTALLATIONS; "CS104-49, WARM AIR FURNACE EQUIPPED WITH VAPORIZING POT TYPE OIL BURNERS; "CS101-43, FLUE CONNECTED OIL BURNING SPACE HEATERS EQUIPPED WITH VAPORIZING POT-TYPE BURNERS; STANDARDS OF THE N. B. F. U. FOR THE INSTALLATION OF OIL BURNING EQUIPMENT, 1949 Edition; RULES FOR CONSTRUCTION OF LOW PRESSURE HEATING BOILERS 1949 EDITION, OF THE A. S. M. E.; COMMERCIAL STANDARD CS109-44, SOLID FUEL BURNING FORCED AIR FURNACES; NATIONAL ELECTRIC CODE, N. B. F. U. PAMPHLET NO. 70, "JAN. 1947; AND REPEALING ORDINANCE NO 50, ADOPTED MARCH 6, 1909, OF THE CITY OF GOLDEN.

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF GOLDEN, COLORADO:

Section 1: In pursuance of the Authority conferred by Section 2, Chapter 242, Session laws of Colorado, 1949, this ordinance is hereby enacted for the preservation and promotion of the public health, welfare, and safety of the inhabitants of the City of Golden, and of the public; and for the preservation and promotion of the convenience, good order, tranquility, prosperity, happiness, morals, best interests, and general welfare of said people, and to establish minimum standards of design, materials, and workmanship for all buildings and structures hereafter erected, altered, or repaired, and to establish methods of moving or wrecking of buildings within the limits of the City of Golden.

Section 2: That Section 203 (A) "Building Code for Colorado Cities and Towns" be amended to read as follows: (a) No employee connected with the department, including the building inspector, shall be financially interested in the furnishing of funds, labor, material, appliances, or anything of value, for the construction, alteration, or maintenance of a building or in the making of plans or of the specifi-

cations therefor, unless he is the owner of such building, or unless he is the permanent employee of the owner of such building. No employee shall engage in any work or business which is inconsistent with his duties or with the interests of the department.

Section 3: That Section 204 of "Building Code for Colorado Cities and Towns" be amended to read as follows: (a) The building inspector shall keep careful and comprehensive records of applications, of permits and certificates issued, of inspections made, of reports rendered, of notices and orders issued, and of any other business of the building department. He shall retain on file copies of all papers in connection with building work for a period of five years from date thereon, and thereafter may destroy such unimportant papers and records as may be scheduled for destruction under a "schedule for the preservation and destruction of records" which has been approved by both the municipality's legal counsel and its governing body, and which is a matter of public record.

Section 4: That Section 301 (f) of "Building Code for Colorado Cities and Towns" be amended by the addition of the following paragraph, to-wit: (f) Approval of Plans. If the building inspector determines that the proposed building will comply with all ordinances of the City of Golden and all applicable laws and orders of the State of Colorado, he shall officially approve and stamp "approved" on one set of the plans and return it to the owner, and shall issue a building permit therefor which shall be kept and displayed at the site of the proposed building. A suitable building permit card or notice shall also be issued and shall be prominently displayed at all times at the construction site while the construction is in progress.

After being approved, the plans and specifications shall not be altered except with the written consent of the building inspector. In case adequate plans are presented for part of the building only, the building inspector may at his discretion issue a permit for a part of the building before receiving the plans and specifications for the entire building.

The building inspector may, at his discretion, refer plans and specifications for buildings described under paragraphs (c) (1) and (c) (2) of this section to an architect licensed in the State of Colorado, or to a registered structural engineer of the State of Colorado, for an opinion as to the safety of the proposed structure for the purpose intended.

Section 5: That Section 303 (c) of "Building Code for Colorado Cities and Towns" be amended to read as follows: (c) All plumbing work shall be done in such a workmanlike manner as will pass the inspection of the Building Inspector or an Inspector of the Colorado State Board of Health.

Section 6: That Section 311 (1)

(a) of the "Building Code for Colorado Cities and Towns" be amended to read as follows: (1) Schedule of permit fees. Payment of fees for permits required under Sections 301, 302 and 303 shall be made at the time of filing application in accordance with the following schedule:

(a) Buildings . . . For a permit to erect a building the fee shall be at the rate of one dollar fifty cents per hundred square feet or fraction thereof of total floor space enclosed from the weather.

Section 7: That Section 311 (1) (b) of the "Building Code for Colorado Cities and Towns" be amended to read as follows: (1) Schedule for permit fees. Payment of fees for permits required under Sections 301, 302, and 303 shall be made at the time of filing application in accordance with the following schedule:

(b) Elevators and escalators. . . . For a permit to install an elevator or escalator the fee shall be five dollars.

Section 8: That Section 311 (111) (d) of the "Building Code for Colorado Cities and Towns" which reads as follows: (d) Permits for excavations in or across public property, streets, alleys, and public ways shall be obtained from the building inspector, and bond shall be posted to assure proper replacement of paving, or grade, and to protect the city against public liability, is hereby repealed.

Section 9: That Section 311 (111) of the "Building Code for Colorado Cities and Towns" is hereby amended by the adoption of the following as paragraph (d) thereof, to-wit:

(d) Building Additions . . . a permit fee for addition of floor area to an existing building shall be in accordance with the schedule of fees as outlined in sub-paragraph (1) of this section as applicable.

Section 10: That Section 311 (111) of the "Building Code for Colorado Cities and Towns" is hereby amended by the adoption of the following as paragraph (e) thereof, to-wit:

(e) Structural Changes . . . a permit fee for structural changes to an existing building wherein no additional floor space is added to the existing building shall be charged at the rate of one-fourth of one percent of the value as estimated by the building inspector, but in no event shall such a permit fee be less than one dollar.

Section 11: That Section 401 of the "Building Code for Colorado Cities and Towns" is hereby amended to read as follows, to-wit:

Section 401—APPOINTMENT.
There is hereby established a board of appeals, which shall consist of nine residents of the City of Golden qualified by training or experience. Members shall be appointed by the legislative body of the City of Golden and shall also serve as the Planning Commission and the Board of Adjustment under the terms of Ordinance No. 256 of

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C. J. ...
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said City, as amended.

Section 12: That Section 402 of the "Building Code for Colorado Cities and Towns" is hereby repealed.

Section 13: That Section 403 of the "Building Code for Colorado Cities and Towns," with reference to the last sentence thereof, is amended to read as follows, to-wit:

Appeals hereunder shall be in writing and a fee of \$5.00 must be paid at the time of filing.

Section 14: That Section 603, Construction Table, of the "Building Code for Colorado Cities and Towns" is hereby amended to read as follows, to-wit:

flat surfaces assembled to avoid thin sections, sharp projections and concealed or inaccessible spaces; and in which all structural members which support masonry walls shall have a fire resistance rating of not less than three hours; and other structural members of steel or reinforced concrete, if used in lieu of timber construction, shall have a fire resistance rating of not less than one hour.

Section 17: That Section 1202 of the "Building Code For Colorado Cities and Towns" be amended to read as follows: Mix-Concrete for plain or reinforced concrete shall

Construc- tion	Maximum Height for Corresponding Areas		Maximum Floor Areas on Any One Floor			
	Feet	Stories	Building Fronting on			Increase for Complete Sprink- ling
			1 Street	2 Streets	3 or More Streets	
Fire Re- sistive			NO RESTRICTIONS			
Heavy Timber			9,500	14,250	19,000	100%
Ordinary Masonry	35 ft.	Two	9,000	13,500	18,000	100%
Metal, Frame	35 ft.	Three	7,200	10,800	14,400	100%
Wood, Frame	35 ft.	Three	6,000	9,000	12,000	100%

Section 15: That Section 902 (1111) (h) of the "Building Code for Colorado Cities and Towns" which reads as follows: (h) Inspection and Maintenance: It shall be the duty of the Building Inspector to inspect every sign for which a permit is required at reasonable intervals and to demand proper structural maintenance of the sign, is hereby repealed.

Section 16: That Section 1001 (b) of the "Building Code for Colorado Cities and Towns" be amended to read as follows:

(b) Heavy Timber Construction, as applied to buildings, means that in which walls are of approved masonry or reinforced concrete; and in which the interior structural elements—including columns, floors and roof structural members—consist of heavy timbers with smooth

consist of fixed proportions of cement, sand, and gravel or crushed rock with a water content not to exceed 7½ gallons per sack of 94 pounds of cement and not less than five sacks of cement to the cubic yard of concrete. Surface water contained in the aggregate must be included as part of the mixing water in computing the water content. Mixes to develop specified strengths at 28 days shall be proportioned as required in the references in Section 1201. The Building Inspector shall take such specimen samples of concrete as he may consider necessary to be assured as to the adequacy of the concrete with respect to the design specified.

Section 18: That Section 1503, (1) of the "Building Code for Colorado Cities and Towns" be amended to read as follows:

1. **Safe Capacity.** Where the bearing capacity of the soil is not definitely known, the Building Inspector may require load tests or other proof as to the permissible safe bearing capacity at the particular location. In the absence of satisfactory tests, the sustaining power per square foot of different soils be deemed to be as follows:

Clay	1/2 Ton
Sand & Clay Mixed	2 Tons
Sand	3 Tons
Gravel	6 Tons
Rock	15 Tons

Section 19. That Section 2106 of the "Building Code for Colorado Cities and Towns" be amended to read as follows:

MOVABLE AWNINGS OR HOODS. Movable awnings or hoods may have combustible coverings supported on incombustible frames supported entirely from the building.

Section 20: That in Part VI—Definitions of the "Building Code for Colorado Cities and Towns" the word "Alley" be amended to read as follows: Alley is any public thoroughfare 20 feet or less in width, which has been dedicated or deeded to the public for public use.

Section 21: That in Part VI—Definitions of the "Building Code for Colorado Cities and Towns" the definition of Apartment House be amended to read as follows: Apartment House: A building or portion thereof used or designed as a dwelling for Five (5) or more families or households living independently of each other.

Section 22: That in Part VI—Definitions of the "Building Code for Colorado Cities and Towns" the definition of Multi-family Dwelling be amended to read as follows: Multi-family Dwelling: One building designed for or occupied exclusively by not to exceed four families, living independently of each other.

Section 23: That in Part VI—Definitions of the "Building Code for Colorado Cities and Towns" the word "Street" be amended to read as follows: Street is any thoroughfare more than Fifty feet in width which has been dedicated or deeded to the public for public use.

Section 24. That Article 110, Section 1118 of the "1947 National Electrical Code" be amended to read as follows: 1118. Splices. Conductors shall be so spliced or joined as to be mechanically and electrically secure without solder and, unless an approved splicing device is used, shall then be soldered with a fusible metal or alloy or brazed or welded. All splices and joints and the free ends of conductors shall be covered with an insulation equal to that on the conductors. Splicing devices or "wire nuts," unless of the set-screw type, shall not be used in place of solder and tape.

Section 25: That Article 230, Section 2304A of the "1947 National Electrical Code" be amended to read as follows: a. Service Entrance Conductors. Service-entrance con-

ductors, including underground services, shall have a current-carrying capacity sufficient to carry the load as determined by Section 2203, and in accordance with Tables 1 and 2 of Chapter 10. They shall not be smaller than No. 6, except on obviously temporary structures where they shall be no smaller than No. 8. All entrances of a permanent nature are to consist of a minimum of three conductors.

Section 26: That Article 230, Section 2324 of the "1947 National Electrical Code" be amended to read as follows: 2324. Point of Attachment to Building. In general, the point of attachment of a service drop to a building shall not be less than 8 feet above the permanent grade level and shall be at a height to permit a minimum clearance for service drop conductors of 8 feet above sidewalks and 18 feet above driveways, alleys and public roads.

Section 27: That Article 230, Section 2375e of the "1947 National Electrical Code" be amended to read as follows: 2375e. The meter may be placed on the supply side of the overcurrent device for alternating current supply not in excess of 300 volts between conductors, and provided the conductors between meter and service equipment are installed by any of the methods specified in Section 2331 for service conductors. The meter housing shall be installed between a minimum height of 5 feet and a maximum height of 6 feet above the permanent grade level.

Section 28: That Article 230, Section 2372 of the "1947 National Electrical Code" be amended to read as follows: 2372. Location. The service overcurrent device shall be an integral part of the service disconnecting means or shall be located immediately adjacent thereto, unless located at the outer end of the service raceway. Where the service entrance conductors are conveyed, in conduit, underground from service pole to service entrance switch, there shall be placed a rain-tight overcurrent device on the pole at a maximum height of 6 feet and a minimum height of 5 feet.

Section 29. That Article 230, Section 2304b of the "1947 National Electrical Code" be amended to read as follows: 2304b. Service Drops. Conductors in service drops shall be not smaller than No. 10 if of soft copper, or No. 12 if of medium or hard-drawn copper. Service poles installed adjacent to buildings in order to obtain service drop clearance, shall be securely fastened to the building or otherwise guyed against the strain of the service drop.

Section 30. That Article 430, Section 4328, of the "1947 National Electrical Code" be amended to read as follows: 4328. Number of conductors disconnected by Overcurrent Device. Motor-running protective devices, including fuses and thermal cutouts, shall simultaneously disconnect all underground conductors to interrupt current flow to the motor.

Section 31. That Article 250, Section 2582a, of the "1947 National Electrical Code" which reads as follows: 2532a. Other Available Electrodes. Where a water system as described in Section 2581 is not available, the grounding connection may be made to any of the following: a. The metal frame of the building, if effectively grounded; is hereby repealed.

Section 32: That Article 250, Section 2582b, of the "1947 National Electrical Code" which reads as follows: 2582b. Other Available Electrodes. Where a water system as described in Section 2581 is not available, the grounding connection may be made to any of the following: b. A continuous metallic underground gas piping system, is hereby repealed.

Section 33. That Article 250, Section 2612b, of the "1947 National Electrical Code" which reads as follows: 2612b. To Gas Pipes. The point of attachment of a grounding conductor to gas piping shall always be on the street side of the gas meter, and shall be accessible where practicable; is hereby repealed.

Section 34. That the Colorado State Plumbing Code shall be adopted in toto with the three following additions:

A. If the property owner or some person not a licensed plumber installs plumbing, no sewer or water taps are to be made until the plumbing shall have been passed by the Building Inspector or by the State Plumbing Inspector. The necessary permit is to be obtained prior to connection or connections.

B. Plumbing is to be inspected before the building is plastered or the plumbing enclosed. Inspection is to be made by the City or State Inspector.

C. Sewer and Water Tap fees must be paid for in full prior to connections.

Section 35. Violation and Penalty.

Any person, firm or corporation that violates, disobeys, omits, neglects, or refuses to comply with or resists the enforcement of any of the provisions of this ordinance shall be fined not less than Ten (\$10.00) Dollars nor more than One Hundred (\$100.00) Dollars for each offense. Any building erected, raised, converted, or land or premises used in violation of any provision of this ordinance or the requirements thereof, is hereby declared to be common nuisance, and such common nuisance may be abated in such manner as nuisances are now or may hereafter be abated under existing law.

Section 36. That Ordinance No. 50 of the City of Golden is hereby repealed.

Section 37. That all Ordinances or parts of Ordinances in conflict herewith are hereby repealed.

Section 38. WHEREAS, in the opinion of the City Council, an emergency exists and this ordinance is necessary for the immediate preservation of the public peace, health and safety, therefore this ordinance

shall be in full force and effect upon the expiration of five days from and after its final passage, and publication.

Introduced and read this 10th day of April, A. D. 1950.

Adopted and Approved this 7th day of September, A. D. 1950.

E. L. BARNHARDT,
Mayor.

Attest:

F. ARTHUR LOWTHER,
City Clerk-Treasurer.

Approved as to Form:

FRANK REINHARD, JR.,
City Attorney.

I, F. Arthur Lowther, City Clerk-Treasurer of the City of Golden, Colorado, do hereby certify that the foregoing Ordinance was introduced and read at a regular meeting of the City Council of said City held on the 10th day of April, 1950, and by order of said City Council was published as a proposed ordinance as the law directs, and for more than ten days prior to its passage in the Colorado Transcript, legal newspaper; and that on the 7th day of September, 1950, the said proposed ordinance was read and passed by the City Council aforesaid, the said meeting being a regular meeting of said City Council, and ordered published in aforesaid newspaper as the law directs.

Witness my hand and official seal of the City of Golden, Colorado, this 12th day of September, 1950.

(SEAL)

F. ARTHUR LOWTHER,
City Clerk-Treasurer.