

CITY OF CLAWSON
COUNTY OF OAKLAND
ORDINANCE NO. 709

AN AMENDMENT TO ARTICLE II FIRE PREVENTION OF THE CLAWSON FIRE CODE PROVIDING IN PART FOR THE ADOPTION OF THE 2012 INTERNATIONAL FIRE CODE IN A NEW SECTION 30-31 ADOPTION OF THE 2012 INTERNATIONAL FIRE CODE AND 30-32 SETTING FORTH VARIOUS REQUIREMENTS AND RESTRICTIONS ON HAZARDOUS MATERIALS, FIREWORKS, BONFIRES AND PROHIBITIONS ON OPEN BURNING; PROVIDING FOR CERTAIN PENALTIES FOR VIOLATIONS, THE IMPOSITION OF NECESSARY FEES; THE ADOPTION OF CERTAIN STANDARDS SPECIFICALLY SET FORTH IN THE TABLES TO THIS INTERNATIONAL CODE; REQUIREMENTS FOR FIRE INSTALLATION SYSTEMS, ACCESS FOR EMERGENCY VEHICLES AND FIRE FLOW REQUIREMENTS AND PROVIDING AN APPEAL PROCESS FROM ANY DECISION OF THE FIRE CHIEF OR HIS/HER DESIGNEE DIRECTLY PERTAINING TO THE PROVISIONS HEREIN SO LONG AS THEY DO NOT DIRECTLY RELATE TO NOR INVOLVE BUILDING CODE REQUIREMENTS AND WOULD NOT UNDERMINE THE ADEQUACY OR APPROPRIATENESS OF THE REQUIREMENTS SET FORTH HEREIN

Now therefore be it ordained that current section 30-31 and 30-32 is hereby repealed and replaced by this new Section 30-31 and 30-32:

Sec. 30-31. Adoption of the 2012 International Fire Code by Reference.

The *International Fire Code*, 2012 Edition, including its appendices, is hereby adopted by reference with the additions, insertions, deletions and changes prescribed in Section Article II of this Ordinance, as the Fire Prevention Code of the City of Clawson, regulating and governing the safeguarding of life and property from fire and explosion hazards arising from the storage, handling and use of hazardous substances, materials and devices, and from conditions hazardous to life and property in the occupancy of buildings. This Ordinance and a copy of the International Fire Code, 2012 Edition, shall be kept on file with the City Clerk. A copy of the International Fire Code in its entirety can also be found at: <http://publicecodes.cyberregs.com/icod/ifc/2012/index.htm>) or any subsequent amended link.

Changes reflected in the updated Fire Code are not intended to be enforced retroactively. Items requiring change will be enforced prospectively when new building plans or changes to an existing building are submitted for review and approval.

Sec. 30-32. Changes to the International Fire Code, 2012 Edition.

The City of Clawson adopts the following additions, insertions, deletions and changes from the *International Fire Code, 2012 Edition*. Subsequent section numbers used in this section shall refer to the like numbered sections of the *International Fire Code, 2012 Edition*. Any provisions of Article II, Chapter 30 which are not amended or deleted herein shall remain in full force and effect.

Sec. 101.1. Title.

These regulations shall be known as the Fire Prevention Code of The City of Clawson, hereinafter referred to as "this code."

Sec. 102.7. Referenced codes and standards.

The codes and standards referenced in this Code shall include those that are listed in Chapter 80 of the International Fire Code, and such codes and standards shall be considered part of the requirements of this code to the prescribed extent of each such reference and as further regulated in Sections 102.7.1 and 102.7.2.

Sec. 102.7.1. Conflicts.

Where conflicts occur between the provisions of this code and the referenced codes and standards, the provisions which establish the higher standard for the promotion of the safety and welfare of the public and the protection of the public, or as otherwise determined by State of Michigan law, shall apply. References to the International Building Code shall be interpreted as the Michigan Building Code as set forth in Chapter 34 Article IV, Section 34-111 of the City of Clawson Code. Reference to other International Code Council codes shall be interpreted as Michigan codes, where applicable, as amended and adopted by law.

Sec. 103.1. General.

The Clawson Fire Department shall be responsible for fire prevention inspection activities and code enforcement of buildings and occupancies as related to the risk of fire or explosion within the City of Clawson. The department of fire prevention is established within the jurisdiction under the direction of the fire code official. The function of the department shall be the implementation, administration and enforcement of the provisions of this code and the codes and standards referenced in Chapter 30 of this code.

Sec. 104.11.4. Unlawful boarding or tampering with fire department emergency equipment.

A person shall not, without proper authorization from the fire official in charge of said fire department emergency equipment, cling to, attach to, climb upon or into, board, or swing upon any fire department emergency vehicle, whether the same is in motion or at rest, operate any emergency warning equipment, or to manipulate or tamper with, or attempt to manipulate or tamper with any levers, valves, switches, starting devices, brakes, pumps, or any equipment or protective clothing on, or a part of, any fire department emergency vehicle.

Sec. 104.11.5. Damage/injury to fire department equipment/personnel.

It shall be unlawful for any person to damage or deface, or attempt or conspire to damage or deface, any fire department emergency vehicle or equipment at any time; or to injure, or attempt or conspire to injure, fire department personnel while performing departmental duties.

Sec. 105.1. General.

Permits shall be in accordance with Section 105. Where reference is made to this section for permits elsewhere in this code and there are no provisions for issuing said permits by the department of fire prevention, the code official is authorized to waive the particular permit requirement.

Sec. 105.1.2. Types of Permits.

There shall be three types of permits as follows:

1. Operational permit. An operational permit allows the applicant to conduct an operation or a business for which a permit is required by Section 105.6 for either:
 - 1.1 A prescribed period.
 - 1.2 Until renewed or revoked.
2. Construction permit. A construction permit allows the applicant to install or modify systems of equipment for which a permit is required by Section 105.7.
3. Occupancy permit. An occupancy permit allows the applicant to occupy existing premises for the purpose of conducting or operating a business for which a permit is required by Section 105.8.

Sec. 105.4.2. Information on Construction Documents.

Construction documents shall be drawn to scale upon suitable material. Electronic media documents may be submitted as required and requested by the building official. The fire code official will request documents from the building official. *Construction documents* shall be of sufficient clarity to indicate the location, nature and extent of the work proposed and show in detail that it will conform to the provisions of this code and relevant laws, ordinances, rules and regulations as determined by the *fire code official*.

Sec. 105.6. Required Operational Permits.

The code official is authorized to issue operational permits for the operations set forth in Sections 105.6.1 through 105.6.46. Where there are no provisions for issuing said permits, the code official is authorized to waive the particular permit requirement.

Sec. 105.6.13. Special Events.

An operational permit is required to operate/conduct all special events including exhibits, crafts and trade shows.

Sec. 105.6.13.1. Permit Fee.

Provided for in Section 34.112 of Clawson City Code.

Sec. 105.6.14.1. Fireworks.

An operational permit is required for ignition, discharge and use of agricultural or wildlife fireworks, articles pyrotechnic, public display fireworks before a proximate audience, or special effects fireworks as stipulated in this ordinance. Application for permits shall be made in writing at least 15 days in advance of the date of the public display. The possession and distribution of fireworks for such use and display shall be lawful under the terms and conditions approved with the permit and for only that purpose. A permit granted hereunder shall not be transferable nor shall any such permit be extended beyond the time set forth therein unless approved by the fire official.

Sec. 105.6.14.2. Permit Fee.

Provided for in Clawson City Code Chapter 34-112.

Sec. 105.6.20. Hazardous Materials.

An operational permit is required to store, transport on site, dispense, use or handle hazardous materials in excess of the most restrictive amounts listed in this code, the *EPA's Emergency Planning and Community Right To Know* regulations, and *MIOSHA's Firefighter Right To Know* requirements.

Sec. 105.6.20.1. Required Amounts for Reporting.

Reportable quantities shall be considered the maximum amount of hazardous material on site at any given time. This amount is required to be reported to the fire department as indicated in the Clawson Fire Department's HMIS packet as defined in Sections 407.5 and 5001.5.2 of this code.

Sec. 105.6.20.2. Permit Fees.

Provided in Clawson City Code Chapter 34-112.

Sec. 105.7.1.1. Installations.

Before any fire suppression system or component is installed, enlarged, extended or modified, a permit shall be obtained from the code official. This shall include any device or relay connected to or controlled by the fire suppression system. All work must be performed by a qualified installer who is properly licensed and/or certified to perform such work as determined by the code official. Construction documents shall be reviewed by the code official prior to issuance of the permit. Upon issuance of the permit, the permit must be posted at the job site in plain view.

Sec. 105.7.1.2. Permit Fees.

Provided in Clawson City Code Chapter 34-112.

Sec. 105.7.6.1. Installations

Before any fire alarm or detection system or component is installed, enlarged, extended or modified, a permit shall be obtained from the code official. This shall include auxiliary devices such as magnetic locks, electronic locks, or any device or relay connected to or controlled by the fire alarm or detection system. All work must be performed by a qualified installer who is properly licensed and/or certified to perform such work as determined by the code official. Construction documents shall be reviewed by the code official prior to the issuance of the permit. Upon issuance of the permit, the permit must be posted at the job site in plain view.

Sec. 105.7.6.2. Permit fees.

Provided in Clawson City Code Chapter 34-112.

Sec. 105.7.17. Permit issuance.

A permit granted hereunder shall not be transferable nor shall any such permit be extended beyond the time set forth therein unless approved by the fire official. When work is started without a permit, the permit fee shall be doubled.

Sec. 105.8. Required Occupancy Permit.

The fire code official and building department shall be authorized to issue an occupancy permit for a business as set forth in Section 105.8.1 through 105.8.5.

Sec. 105.8.1. Use Group.

An occupancy permit is required for Use Groups A, B, F, I, M, S and U where such use will occupy 1,500 square feet or greater in area, and Use Group H of any size.

Exception:

Multiple DBAs or LLCs in a single occupancy of less than 1,500 square feet in area.

Sec. 105.8.2. Inventory Statement.

An inventory statement for the intended business shall be provided to the fire code official prior to the issuance of the occupancy permit revealing product or commodity to be stored, used, or produced, and any associated documentation as may be required by the code official.

Sec. 105.8.2.1. Hazardous Materials Inventory Statement.

Where required by the fire code official, each application for a permit shall include a Hazardous Materials Inventory Statement (HMIS) in accordance with applicable requirements of the fire official and building department.

Sec. 105.8.3. Permit Application.

An occupancy permit application shall be filed with the fire code official prior to occupancy. The fire code official shall review the application, inventory statement(s), and any associated documentation, and conduct any necessary inspections and meetings before an occupancy permit is issued.

Sec. 105.8.4. Site and Building Preparation.

As part of the occupancy permit, the intended occupancy shall meet the following requirements:

1. The building and any associated fire protection and life safety features shall comply with the requirements of this code.
2. Fire apparatus access roads and fire lanes shall be designated and posted in accordance with Section 503.
3. An address shall be posted in compliance with Clawson City Code Chapter 34-381.
4. A building and/or tenant floor plan shall be provided to the fire code official in an approved format.
5. A key box, as required by the fire code official, shall be installed in accordance with Section 506.

Sec. 105.8.5. Notification of Changes.

Changes in occupancy or use shall be made to, and approved by the fire code and building official before such changes occur.

Sec. 106.5. Cancellation fees.

Handling cost for permits canceled after being issued is 35% of the permit fee or \$10.00, whichever is greater.

Sec. 108.1. Board of appeals established.

In order to hear and decide appeals of orders, decisions or determinations made by the code official relative to the application and interpretation of this code, Article X Subdivision II Zoning Board of Appeals shall apply.

Sec. 109.4. Violation penalties.

Persons who shall violate a provision of this code or shall fail to comply with any requirements thereof or who shall erect, install, alter, repair, service, test or do work in violation of the approved construction documents or directive of the fire code official, or of a permit or certificate used under provisions of this code, shall be guilty of a misdemeanor punishable by a fine of not more than five hundred (500) dollars or by imprisonment not exceeding ninety (90) days, or both such fine and imprisonment as determined by a judge in a court of law, plus any allowable cost recovery incurred by the Clawson Fire Department or any agency working with the Clawson Fire Department that incurred costs. Each day that a violation continues after due notice has been served shall be deemed a separate offense.

**SECTION 114
MISCELLANEOUS HAZARDS**

Sec. 114.1. Hazardous materials - fire department responsibility.

The Clawson Fire Department shall be responsible for gathering and organizing information, identifying risks, and enforcing codes, standards, and laws relating to the production, storage and use of hazardous materials within the City of Clawson and the notification to firefighting personnel of related hazards. The method and frequency shall be determined by the fire official or his duly authorized representative.

Sec. 114.2. Hazardous conditions.

If upon the expiration of the time mentioned in a notice of violation, hazardous conditions, including but not limited to, obstructions or encroachments inhibiting access to or egress from a space or building, are not removed, the code official shall proceed to remove or have removed the same.

The expense incurred shall be a debt to the City from the responsible person and shall be collected as any other debt to the City.

Sec. 114.3. False alarms.

It shall be unlawful for any person to summon, in any way, the fire department unless a valid reason for their response is present. (See also Clawson City Code Chapter 26 Article IV Alarm Ordinance.)

Sec. 114.4. Nonstandard Equipment.

Equipment and devices which are not in compliance with recognized standards for design and construction may be approved upon presentation of satisfactory evidence that they are designed and constructed for safe operation.

Sec. 114.5. Motion Picture & Television Film Production.

Motion picture / television film production and similar entertainment or documentary production activities shall comply with the requirements of this code and NFPA 140.

**SECTION 202
GENERAL DEFINITIONS**

BONFIRE - An outdoor fire which burns only seasoned dry firewood or clean untreated lumber intended to minimize the generation of air contaminants and is utilized for occasional special events subject to the following provisions:

1. Prior approval of the Clawson City Council.
2. Compliance with any special restrictions as determined by the fire official.
3. Payment of costs associated with special fire protection as determined by the fire official.

EMERGENCY VEHICLE ACCESS - A passageway, as specified in Section 503.7 of this code, for fire apparatus and other emergency vehicles to access a street or property in the event of an emergency.

FIRE CODE OFFICIAL - The fire chief, fire marshal, code enforcement officer, or other designated authority charged by the applicable governing body with the duties of administration and enforcement of the code, or duly authorized representative. The term "fire code official" may be used interchangeably with "code official" and "fire official" in this code.

FIRE WATCH - A temporary measure intended to ensure continuous and systematic surveillance of a building or portion thereof by one or more qualified individuals for the purposes of identifying and controlling fire hazards, detecting early signs of unwanted fire, raising an alarm of fire and notifying the fire department by method(s) approved or recommended by the fire code official.

GROUND FIRE - An outdoor fire for the purpose of viewing or warming, or utilized to cook food for human consumption, or for ceremonial purposes, which burns only seasoned dry firewood or commercially available charcoal briquettes intended to minimize the generation of air contaminants.

HIGH-RISE BUILDING - High-rise building" means a building with an occupied floor located more than 55 feet (16764 mm) above the lowest level of fire department vehicle access.

NONCOMPLIANT - Refers to alterations, modifications, or other such changes to fire suppression, protection, detection, alarm, or other related systems, affecting the design, installation, or proper or intended operation of said system. Does not comply with the applicable standard or criteria set forth when originally installed, tested, and approved.

Sec. 304.2 - Storage.

Storage of combustible rubbish or other combustible material such as pallets, crates, boxes, tires, etc., shall not produce conditions that will create a nuisance or a hazard to the public health, safety or welfare and shall not be within 10 feet (3048 mm) of a structure.

Sec. 307.1.1. Prohibited Open Burning.

Open burning that is offensive or objectionable, as determined by the fire code official, because of smoke or odor emissions or when atmospheric conditions or local circumstances make such fires hazardous shall be prohibited. Burning for purposes of incineration of waste material including paper, leaves, or any other combustible debris, outside of any structure at any place is prohibited.

Sec. 307.2. Permit Required.

A permit shall be obtained from the fire code official in accordance with Section 105.6 prior to kindling a fire for recognized silvicultural or range or wildlife management practices, management of prairie grasses and plants, prevention or control of disease or pests, or a bonfire. Application for such approval shall only be presented by and permits issued to the owner of the land upon which the fire is to be kindled or the landowner's contracted professional. Bonfires, as defined and set forth in Section 202, may be permitted if in compliance with Section 307.4.1 and subject to prior approval of the code official.

Sec. 307.3. Extinguishment Authority.

The fire code official or police official is authorized to order the extinguishment by the responsible person, another person responsible, or the fire department of open burning that creates or adds to a hazardous or objectionable situation.

Sec. 307.4.1. Bonfires.

A bonfire shall not be conducted within 50 feet (15 240 mm) of a structure or combustible material unless the fire is contained in a barbecue pit. Conditions which could cause a fire to spread within 50 feet (15 240 mm) of a structure shall be eliminated prior to ignition. Once approved, the intended maximum size and duration of a bonfire shall not be increased unless by City Council and only after it has been determined by the fire official that fire safety requirements of the situation and the desirable duration of burn warrant the increase prior to the bonfire.

307.4.4. Ground Fires.

A ground fire shall be the minimum size for the intended purpose but not larger than 3 feet (914 mm) in diameter and 2 feet (610 mm) in height and shall be contained in a safe manner.

(*Refer to Clawson outdoor burning ordinances 62-39 & 46-11 which may conflict with this section)

Sec. 307.6. Fire Department Training.

Open burning is allowed for the purpose of training fire fighters for firefighting practice, or for the purpose of training the public, including workers or employees, or for the purpose of demonstration by the fire official or other trained fire personnel, when such burning is done in accordance with accepted practice.

Sec. 312.2. Posts. Fire hydrants and other fire protection equipment located in vehicular traffic areas shall be protected against vehicle damage by the installation of guard posts. These posts shall be installed in accordance with the City of Clawson Engineering Standards requirements for water mains. It shall be the property owner's responsibility to provide and maintain this protection.

Sec. 315.4. Outside storage. Outside storage of combustible materials shall not be located within 10 feet (3048 mm) of a lot line and shall not be located within 10 feet (3048 mm) of a structure.

Sec. 404.5.2. Format. Fire safety and evacuation plans, general floor plans, seating arrangements, storage configurations, or other specific plans shall be furnished to the fire code official in an approved format upon request.

Sec. 503.1. Where required.

Fire apparatus access roads shall be provided and maintained in accordance with Sections 503.1.1 through 503.1.3 and in accordance with City of Clawson Development Standards.

Sec. 503.2.1. Dimensions.

Fire apparatus access roads and fire lanes shall have an unobstructed width of not less than 20 feet (6096 mm), except for approved security gates in accordance with Section 503.6, and an unobstructed vertical clearance of not less than 14 feet (4267.2 mm) or as otherwise approved by the fire code official.

Sec. 503.6. Security gates.

The installation of security gates across a fire apparatus access road shall be approved by the fire code official. Where security gates are installed, they shall have an approved means of emergency operation. The security gates and the emergency operation shall be maintained operational at all times. Electric gate operators, where provided, shall be *listed* in accordance with UL 325. Gates intended for automatic operation shall be designed, constructed and installed to comply with the requirements of ASTM F 2200.

Sec. 503.7. Emergency Vehicle Access.

Emergency vehicle access (EVA) shall be determined and approved by the fire code official. Unless otherwise required, EVAs shall be of the following specifications:

1. Minimum of 12 feet (3657.6 mm) wide.
2. Surface capable of supporting the weight of fire apparatus up to 60,000 pounds GVW.
3. Minimum grade changes to accommodate fire apparatus undercarriage ground clearances.
4. Mountable curb at entrance/exit with adequate turning radii to and from the EVA.
5. Standard fire lane signage posted at entrance/exit to EVA.
6. EVA signage posted at entrance/exit of EVA, on both sides of surface, every 50 feet (15240 mm) for length of EVA.
7. EVA signage to withstand snow removal/landscape maintenance efforts.
8. EVA to be kept clear of snow and vegetation.

Sec. 505.1. Address Identification.

(Provided for in City Code Chapter Article VIII Chapter 34)

Sec. 506.1. Where Required.

Where access to or within a structure or an area is restricted because of secured openings or where immediate access is necessary for life-saving or fire-fighting purposes, or where an alarm signaling system or device is installed that may summon the fire department, the fire code official is authorized to require a key box to be installed in an accessible location. The necessity of installing a lock box shall be at the option of the business owner. The decision not to install the lock box shall not create any liability to the City of Clawson for the failure to do so. The key box shall be of an approved type and shall contain keys to gain access as required by the fire code official. Any appeal that may arise shall be referred to the Zoning Board of Appeals.

Sec. 507.3. Fire Flow. Fire flow requirements for buildings or portions of buildings and facilities shall be determined in accordance with Appendix B and in accordance with City of Clawson Engineering Standards. An appropriate pressure and flow margin of safety shall be provided with each fire sprinkler system as required by the code official.

Sec. 507.5. Fire Hydrant Systems. Fire hydrant systems shall comply with Sections 507.5.1 through 507.5.6 and shall be in accordance with Appendix C and City of Troy Development Standards.

Sec. 507.5.4.1. Removal of Obstructions. If upon the expiration of the time mentioned in a notice of violation, obstructions or encroachments to a fire hydrant, or to other fire protection equipment, are not removed, the code official shall proceed to remove or have removed the same. The expense incurred shall be a debt to the City from the owner, tenant, business occupant or resident and shall be collected as any other debt to the City.

Sec. 609.1. General. Commercial kitchen exhaust hoods shall comply with the requirements of the *Michigan Mechanical Code and NFPA 96*.

Sec. 609.1.1. Exhaust Fans. Exhaust fans for commercial cooking hoods shall be installed so that the fans are operational at all times cooking is occurring. This may be accomplished by a temperature monitoring device installed in, on, or near the hood to activate the exhaust fan(s) at a pre-determined temperature, or as otherwise approved by the code official.

Sec. 803.3.1. Explosive and Highly Flammable or Combustible Materials. Furnishings or decorations of an explosive or highly flammable or combustible character shall not be used.

Sec. 806.1.1. Restricted Occupancies. Natural cut trees shall be prohibited in Group A, B, E, F, H, I, M, R-1, R-2, R-4, S, and U occupancies.

Exception: Trees located in areas protected by an approved automatic fire sprinkler system installed in accordance with Section 903.3.1.1 or 903.3.1.2 shall not be prohibited in Groups A, B, E, F, M, R-1, R-2, S, and U.

Sec. 807.1. General requirements. In occupancies of Groups A, B, E, F, H, I, M, R-1, R-4, S, and U, and dormitories in Group R-2, curtains, draperies, hangings and other decorative materials suspended from walls or ceilings shall meet the flame propagation performance criteria of NFPA 701 in accordance with Section 807.2 or be noncombustible.

Sec. 901.5. - Installation Acceptance Testing. Fire detection and alarm systems, fire-extinguishing systems, fire hydrant systems, fire standpipe systems, fire pump systems, private fire service mains and all other fire protection systems and appurtenances thereto shall be subject to inspection and acceptance tests as contained in the installation standards and as approved by the fire code official. The fire code official shall be notified before any required acceptance testing is performed in order to schedule, witness and approve such testing prior to use of said fire protection system or equipment and/or occupancy of the structure.

Sec. 901.6.2.2. Noncompliant Systems.

Fire suppression, protection, or other related systems found to be noncompliant, malfunctioning, or otherwise non-operational in the manner required, designed, or intended, shall be identified as "noncompliant" by the service company or individual performing such service, and the fire code official and the occupant shall be notified immediately or at the earliest practical time. At no time shall an approval, compliance, or other indication of operability be affixed to, on, or near such system(s) so as to give false indication of designed, intended, or expected operation.

Anti-Freeze Fire Sprinkler Systems.

Fire sprinkler systems designed and installed to protect areas prone to freezing shall be drained and tested, then refilled and maintained to insure the solution is operable to -20 degrees F or as otherwise approved by the code official.

Sec. 903.3.5.3. Required Pressure Margin.

The code official is authorized to require a pressure margin of up to ten percent (10%) over the minimum design criteria for installed automatic fire sprinkler systems. Where this margin cannot be achieved, approved means shall be taken to provide this margin.

Sec. 903.4.2. Alarms.

Approved audible-visual devices shall be connected to every automatic sprinkler system. Such sprinkler water-flow alarm devices shall be activated by water flow equivalent to a single sprinkler of the smallest orifice size installed in the system. Alarm devices shall be provided on the interior and exterior of the building in an approved location. Exterior audible-visual devices shall activate only on water flow. Where a fire alarm system is installed in the building, actuation of the automatic sprinkler system shall actuate the building fire alarm system.

Sec. 904.3.5. Monitoring.

Automatic fire extinguishing systems shall be monitored by a supervising station in accordance with NFPA 72 as approved by the code official. Where a building fire alarm system is installed, automatic fire-extinguishing systems shall be monitored by the building fire alarm system in accordance with NFPA 72 and shall automatically annunciate their location at the building's fire alarm control panel, and activate the building's appropriate fire protective signaling sequence.

Sec. 907.6.3.1.1. Alarm silencing.

Alarm silencing shall not cancel the activated strobes or visual warning devices.

Sec. 907.6.5.3. Temporal Code-3. Audible alarm notification appliances shall sound in temporal Code-3 pattern as approved by the code official.

Exception: High-rise buildings.

Sec. 907.6.2.1. Required Power. Where required by the code official, systems and their components shall be designed to provide adequate power in order to accommodate additional devices as a result of anticipated future expansion to the system. Unless otherwise approved by the code official, 10 amps per 10,000 square feet shall be used as a guide.

Sec. 907.6.5.3. Annunciation. Where fire suppression systems exist in multi-tenant occupancies, i.e., strip malls, separate annunciation, including water flow switch and inspector test valve, shall be required for each separately addressed tenant space unless otherwise approved by the code official.

Sec. 913.3.2. Precautions to prevent freezing. Precautions shall be taken in all rooms and areas containing fire sprinkler equipment such as piping, valve(s), and fire pump(s), to prevent freezing of said equipment during times of extremely cold temperatures. Where the code official deems necessary, equipment shall be installed to monitor the temperature of said areas and send a trouble or supervisory signal to an approved location when the temperature falls below 40 degrees F to warn of freezing conditions so that the occurrence of frozen and/or broken piping, valve(s), and fire pump(s) can be prevented.

Sec. 914.2.4. Fire department access to equipment. Rooms or areas containing controls for air-conditioning systems, automatic fire-extinguishing systems, automatic sprinkler systems or other detection, suppression or control elements shall be identified for use by the fire department. Fire protection equipment shall be maintained accessible at all times. No storage or operation is allowed that will obstruct or delay fire department access to sprinkler risers and valves, or other fire protection control elements.

Sec. 1004.3.1. Zoning requirements. The number of occupants permitted shall also be determined in accordance with Chapter 34 of the Clawson City Code (zoning).

Sec. 2101.1. Scope. Dry cleaning plants and their operations shall comply with the requirements of this chapter and NFPA 32, and the Michigan Fire Prevention Code 1941 PA 207, as amended, or its equivalent.

Sec. 2301.1. Scope. Automotive motor fuel-dispensing facilities, marine motor fuel-dispensing facilities, fleet vehicle motor fuel-dispensing facilities, aircraft motor-vehicle fuel-dispensing facilities and repair garages shall be in accordance with this chapter and the Michigan Building Code, International Fuel Gas Code and the Michigan Mechanical Code, and the Michigan Storage and Handling of Flammable and Combustible Liquids Rules, as amended, or their equivalent. Such operations shall include both operations that are accessible to the public and private operations.

Sec. 2306.1. General.

Storage of flammable and combustible liquids shall be in accordance with Chapter 34 and Sections 2206.2 through 2206.6.3, and the Michigan Storage and Handling of Flammable and Combustible Liquids Rules, as amended, or their equivalent.

Sec. 2306.7.8. Gravity and Pressure Dispensing.

Flammable or combustible liquids shall not be dispensed by gravity from tanks, drums, barrels or similar containers. Flammable or combustible liquids shall not be dispensed by a device operating through pressure within a storage tank, drum or container. Approved pumps taking suction from the top of the container shall be utilized.

Sec. 5103.2. Identification.

Cartons shall be identified on at least one side with the classification level of the aerosol products contained within the carton as follows:

LEVEL _____ AEROSOLS

The side of the carton marked shall be clearly visible when stored in configurations of two or more cartons.

Sec. 5601.1.1. Explosive Material Standard.

In addition to the requirements of this chapter, NFPA 495 shall govern the manufacture, transportation, storage, sale, handling and use of explosive materials, and the Michigan Explosives Law 1970 PA 202, as amended, or its equivalent.

Sec. 5601.1.3. Fireworks. The possession, manufacture, storage, sale, handling and use of fireworks shall be in compliance with the Michigan Fireworks Safety Act, Act No. 256, Public Acts of 2011 and any amendments thereto, Clawson City Code, Chapter 26; Clawson City Code, Chapter 98; and this ordinance.

Sec. 5601.1.4. Rocketry. The storage, handling and use of model and high-power rockets shall comply with the requirements of NFPA 1122, NFPA 1125, and NFPA 1127, and the Michigan Model Rocket Law 1965 PA 333, as amended, or its equivalent.

Sec. 5601.2.4. Bond for Public Display.

The permit holder shall furnish a bond in an amount approved by the City of Clawson for the payment of all potential damage caused either to the person or property due to the permitted display, and arising from any acts of the permit holder or the agent of the permit holder.

Sec. 5608.1. General.

The display of fireworks, including outdoor fireworks displays, proximate audience displays and pyrotechnic special effects in motion picture, television, theatrical, and group entertainment productions, shall comply with this chapter, and NFPA 1123 or NFPA 1126. Approved public displays shall be handled by an approved competent operator, and the fireworks shall be arranged, located, discharged and fired in a manner that will not be a hazard to property or endanger any person.

Sec. 5701.3. Referenced Documents. The applicable requirements of Chapter 50, other chapters of this code, the *Michigan Building Code*, and the *Michigan Mechanical Code* pertaining to flammable liquids, and the Michigan Storage and Handling of Flammable and Combustible Liquids Rules, as amended, or their equivalent shall apply.

Sec. 5701.4. Permits. Permits shall be required as set forth in Sections 105.6 and 105.7, and the Michigan Fire Prevention Code 1941 PA 207, as amended, or its equivalent.

Sec. 5704.2.9. Above-Ground Tanks. Above-ground storage of flammable and combustible liquids in tanks shall comply with Section 5704.2 and Sections 5704.2.9.1 through 5704.2.9.7.10, and the Michigan Aboveground Storage Tank Rules, or their equivalent.

Sec. 5704.2.11. - Underground Tanks. Underground storage of flammable and combustible liquids in tanks shall comply with Section 5704.2 and Sections 5704.2.11.1 through 5704.2.11.5.2, and the Michigan Underground Storage Tank Rules, or their equivalent.

Sec. 5801.2. - Permits. Permits shall be required as set forth in Sections 105.6 and 105.7 and the Michigan Fire Prevention Code 1941 PA 207, as amended, or its equivalent.

**Chapter 80
REFERENCED STANDARDS**

State of Michigan Laws, Rules, or Requirements including but not necessarily limited to the following with amendments:

- Michigan Fire Prevention Code 1941 PA 207
- Michigan Explosives Law 1970 PA 202
- Michigan Fireworks Safety Act, Act No. 256, Public Acts of 2011, and any amendments thereto
- Michigan Model Rocket Law 1965 PA 333
- Michigan Storage and Handling of Flammable and Combustible Liquids Rules and Michigan Underground Storage Tank Rules 1999

NFPA National Fire Protection Association

Standard reference number	Title	Referenced in code section number
96-11	Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations	609.1
140-11	Standard on Motion Picture and Television Production Studio Soundstages, Approved Production Facilities, and Production Locations	114.5

**Appendix C
FIRE HYDRANT LOCATIONS AND DISTRIBUTION**

**TABLE C105.1
NUMBER AND DISTRIBUTION OF FIRE HYDRANTS**

FIRE-FLOW REQUIREMENT (gpm)	MINIMUM NO. OF HYDRANTS	AVERAGE SPACING BETWEEN HYDRANTS ^{a,b,c} (feet)	MAXIMUM DISTANCE FROM MOST REMOTE PORTION OF BUILDING ACCESSIBLE BY FIRE APPARATUS TO A HYDRANT ^d (feet)
1,750 or less	1	500	250
2,000-2,250	2	450	225
2,500	3	450	225
3,000	3	400	225
3,500-4,000	4	350	210
4,500-5,000	5	300	180
5,500	6	300	180
6,000	6	250	150
6,500-7,000	7	250	150
7,500 or more	8 or more ^e	200	120

For **SI**: 1 gallon per minute = 3.785 L/m, 1 foot = 304.8 mm

^a Reduce by 100 feet (30,480 mm) for dead-end streets or roads with dead-end water main.

^b Where streets are provided with median dividers which cannot be crossed by firefighters pulling hose lines, or where arterial streets are provided with four or more traffic lanes and have a traffic count of more than 30,000 vehicles per day, hydrant spacing shall average 500 feet (152.4 m) on each side of the street and be arranged on an alternating basis up to a fire-flow requirement of 7,000 gallons per minute (26,495 L/min.) and 400 feet (122 m) for higher fire-flow requirements.

^c Where new water mains are extended along streets where hydrants are not needed for protection of structures or similar fire problems, fire hydrants shall be provided at spacing not to exceed 1,000 feet (305 m) to provide for transportation hazards.

^d Reduce by 50 feet (15,240 mm) for dead-end streets or roads.

^e One hydrant for each 1,000 gallons per minute (3,785 L/min.) or fraction thereof.

**Appendix D
FIRE APPARATUS ACCESS ROADS**

D101.1. Scope. Fire apparatus access roads shall be in compliance with this appendix and all other applicable requirements of the *International Fire Code*, and City of Troy Development Standards.

D103.5. Fire apparatus access road gates. Gates securing the fire apparatus access roads shall comply with all of the following criteria:

1. The minimum gate width shall be 20 feet (6096 mm) unless otherwise approved by the code official.
2. Gates shall be of the swinging or sliding type.
3. Construction of gates shall be of materials that allow manual operation by one person.
4. Gate components shall be maintained in an operative condition at all times and replaced or repaired when defective.
5. Electric gates shall be equipped with a means of opening the gate by fire department personnel for emergency access. Emergency opening
6. Devices shall be approved by the code official.
7. Manual opening gates shall not be locked with a padlock or chain and padlock unless they are capable of being opened by means of forcible entry tools carried by the fire department.
8. Locking device specifications shall be submitted for approval to the code official.
9. Where buildings protected by electric gates are provided with automatic fire protection and detections systems, gates shall open and remain open upon initiation of an alarm.

This ordinance was adopted by the City Council of the City of Clawson at a meeting duly called and held on the 6th day of October, 2015, and ordered to be published as prescribed by the law.

STATE OF MICHIGAN)
)
COUNTY OF OAKLAND)

I, the undersigned, the duly qualified and active City clerk of the City of Clawson, Oakland County, Michigan, do hereby certify that the foregoing is a true and complete copy of an ordinance made, passed, and adopted by the Council of said City at a regular meeting held in the Council Chambers, 425 N. Main Street, Michigan, on Tuesday, the 6th day of October, 2015 at 7:30 p.m., further a synopsis of this Ordinance was duly published in the Daily Tribune, October 22, 2015 edition of the Daily Tribune, a newspaper of general circulation in the City of Clawson.

Penny Luebs
Penny Luebs, Mayor

G. Machele Kukuk
G. Machele Kukuk, City Clerk

Dated: October 6, 2015

Dated: October 6, 2015