



500 West Big Beaver  
Troy, MI 48084  
troymi.gov



## CITY COUNCIL AGENDA ITEM

Date: February 05, 2024

To: Mark F. Miller, City Manager

From: Robert J. Bruner, Deputy City Manager  
Megan E. Schubert, Assistant City Manager  
Peter Hullinger, Fire Chief  
Michael Koehler, Deputy Chief

Subject: Amendments to Troy City Code – Chapter 93: Fire Prevention

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### History

The International Code Council (ICC) is a membership association dedicated to building safety and fire prevention. ICC develops codes and standards used to construct and inspect buildings. Codes are reviewed and revised on a national level every three years.

The State of Michigan adopts the previously revised edition of the International Building Code, with amendments, as the state construction code which municipalities are required to enforce. Michigan last adopted the 2015 edition of the International Building Code, referred to as the Michigan Building Code. Michigan has not adopted the most recent versions of the ICC building codes and there is no indication that a newer edition will be adopted in the foreseeable future.

Michigan has yet to adopt a state fire code, and therefore, it is the responsibility of local municipalities. As a result, the companion International Fire Code and Troy's local fire prevention ordinance, Chapter 93, is amended to have a corresponding fire code for new and existing buildings.

Under Chapter 93 of the Troy City Code, Section 2, the City of Troy currently adopts the 2021 edition of the International Fire Code with amendments. This code is enforced by the Fire Department whose function is the implementation, administration and enforcement of the provisions of the amended code.

The 2021 edition of the IFC addresses emerging industries such as lithium ion battery storage, storage of distilled spirits, and mobile food preparation trucks. These occupancies and operations pose unique hazards that previous code editions do not address. The City of Troy currently has many of these businesses operating in the city and have no specific code references that address the hazards associated with their respective operations.



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### **Purchasing**

There are no purchasing considerations associated with Chapter 93

### **Financial**

There are no financial considerations associated with Chapter 93.

### **Recommendation**

Staff recommends adopting the 2021 International Fire Code, with amendments, as “Chapter 93 – Fire Prevention” of the Troy City Code.

### **Legal Review**

This item was submitted to the City Attorney for review pursuant to City Charter Section 3.17.

CITY OF TROY  
AN ORDINANCE TO ADOPT  
CHAPTER 93- CITY OF TROY FIRE PREVENTION ORDINANCE

The City of Troy ordains:

Section 1. Short Title

This Ordinance shall be known and may be cited as Chapter 93- City of Troy Fire Prevention Ordinance.

Section 2. Ordinance

Chapter 93 is amended as follows:

**93.00 Adoption of the 2021 International Fire Code by Reference.** The *International Fire Code, 2021 Edition*, including its appendices, is hereby adopted by reference with the additions, insertions, deletions and changes prescribed in Section 93.01 of this Ordinance, as the Fire Prevention Code of the City of Troy, 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, 2021 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: <https://codes.iccsafe.org/content/IFC2021P2> or any subsequent amended link.

**93.01 Additions, Insertions, Deletions and Changes to the International Fire Code, 2021 Edition.** The City of Troy adopts the following additions, insertions, deletions and changes from the *International Fire Code, 2021 Edition*. Subsequent section numbers used in this section shall refer to the like numbered sections of the *International Fire Code, 2021 Edition*. Any provisions which are not amended or deleted herein shall remain in full force and effect.

**SECTION 104  
DUTIES AND POWERS OF THE FIRE CODE OFFICIAL**

**104.12.4 ~~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.

**104.12.5** ~~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.

## **SECTION 105 PERMITS**

**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 **105.5** ~~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 **105.6** ~~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.

**105.3.9 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.

**105.5** ~~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.~~52~~ 46. Where there are no provisions for issuing said permits, the code official is authorized to waive the particular permit requirement.

**105.5.15** ~~105.6.14~~ **Special Events.** An operational permit is required to operate/conduct all special events including exhibits, crafts and trade shows.

~~**105.6.14.1 Permit Fee.** Provided for in Troy City Code Chapter 60.~~

**105.5.16.1** ~~105.6.15~~ **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 30 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.

~~105.6.15.1 Permit Fee. Provided for in Troy City Code Chapter 60.~~

~~105.5.16.1~~ ~~105.6.15.2~~ **Documentation.** Where required by the fire code official, each application for a permit shall include documentation as required in ~~105.5.22.105.6.21.3~~

~~105.5.22~~ ~~105.6.21~~ **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.

~~105.5.22.1~~ ~~105.6.21.1~~ **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 Troy Fire Department's HMIS packet~~ as defined in Sections 407.5 and 5001.5.2 of this code.

~~105.6.21.2 Permit Fees. Provided for in Troy City Code Chapter 60.~~

~~105.5.22.2~~ ~~105.6.21.3~~ **Required Documentation.** Where required by the fire code official, each application for a permit shall include a Hazardous Materials Inventory Statement (HMIS) in accordance with Section 5001.5.2, a site plan drawing in a format acceptable to fire code official, indicating the location of the identified materials, and an Emergency Contact List.

~~105.5.34.1~~ **Bonfires.** Operational permits are required for bonfires. Bonfires are subject to the following provisions:

- ~~1. Prior approval of the Troy 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.~~

~~105.6.1.1~~ ~~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 the issuance of the permit. Upon issuance of the permit, the permit must be posted at the job site in plain view.

**106.2.1** ~~105.4.2n~~ **Information on Construction Documents.** *Construction documents* shall be drawn to scale upon suitable material. Electronic media documents shall be submitted as required by the *fire code official*. Failure to submit electronic media documents may result in a reasonable document scanning fee as determined by the fire code 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*.

~~105.7.1.2 Permit Fees. Provided for in Troy City Code Chapter 60.~~

**105.6.6.1** ~~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.

~~105.7.6.2 Permit fees. Provided for in Troy City Code Chapter 60.~~

~~105.7.19 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.~~

**107.6.1** ~~106.5~~ **Cancellation fees.** Handling cost for permits canceled after being issued is 35% of the permit fee or \$10.00, whichever is greater.

**111.1** ~~108.4~~ **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, there shall be and is hereby created a board of appeals as established in Section 116 of Chapter 79 of the Troy City Code.

**112.4** ~~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 Municipal Civil Infraction punishable by a fine of not more than five hundred (500) dollars as determined by a judge in a court of law, plus any allowable cost recovery incurred by the Troy Fire Department or any agency working with the Troy Fire Department that incurred costs. Each day that a violation continues after due notice has been served shall be deemed a separate offense.

## **SECTION 115 144 MISCELLANEOUS HAZARDS**

**115.1 144.4 Hazardous materials - Fire Department responsibility.** The Troy 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 Troy and the notification to fire fighting personnel of related hazards. The method and frequency shall be determined by the fire official or his duly authorized representative.

**115.2 144.2 Cost Recovery - 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.

**115.3 144.3 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 Troy City Code Chapter 103 - Alarm Ordinance.)

**115.4 144.4 112.6 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.

**115.5 144.5 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 Troy 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.~~

**BONFIRE.** An outdoor fire that has dimensions larger than 3' in diameter and 2' in height, which burns only seasoned dry firewood and clean untreated lumber intended to minimize the generation of air contaminants and is utilized for occasional special events.

## **SECTION 307 OPEN BURNING, RECREATIONAL FIRES AND PORTABLE OUTDOOR FIREPLACES**

**307.2. Permit Required.** A permit shall be obtained from the fire code official in accordance with Section ~~105.5~~ **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.

**307.4.4 Ground Fires.** Ground fires shall not be conducted within 25' of a structure or combustible material. Conditions that cause a fire to spread within 25' of a structure shall be eliminated prior to ignition. Ground fires shall be the minimum size for the intended purpose, ~~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.

## **SECTION 404 FIRE SAFETY, EVACUATION AND LOCKDOWN PLANS**

**404.1 General.** Where required by Section 403, fire safety, evacuation, and lockdown plans shall comply with Sections 404.2 through 404.4.2.

**404.4.2** ~~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.

## **SECTION 503 FIRE APPARATUS ACCESS ROADS**

~~**503.7 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.~~

**503.7 503.8 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.

## **SECTION 507 FIRE PROTECTION WATER SUPPLIES**

**507.5.4.1. Removal of Obstructions.** ~~Unobstructed access to fire hydrants shall be maintained at all times.~~ 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 responsible person and shall be collected as any other debt to the City.

## **SECTION 606 COMMERCIAL COOKING EQUIPMENT AND SYSTEMS**

**606.1 609.4 General.** Commercial kitchen exhaust hoods shall comply with the requirements of the *Michigan Mechanical Code and NFPA 96*.

**606.1.1 609.4.4 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.

**CHAPTER 8  
INTERIOR FINISH, DECORATIVE MATERIALS AND FINISHINGS**

**CHAPTER 9  
FIRE PROTECTION AND LIFE SAFETY SYSTEMS**

**901.6.4** ~~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.

**901.6.5** ~~901.6.3~~ **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.

**907.5.2.1.4** ~~907.5.2.1.3~~ **Temporal Code-3.** Audible alarm notification appliances shall sound in temporal Code-3 pattern as approved by the code official.

**CHAPTER 10  
MEANS OF EGRESS**

**1004.9.1** ~~1004.3.1~~ **Zoning requirements.** The number of occupants permitted shall also be determined in accordance with Chapter 39 of the Troy City Code (zoning).

**CHAPTER 21  
DRYCLEANING**

**CHAPTER 23  
MOTOR FUEL DISPENSING FACILITIES AND REPAIR GARAGES**

**CHAPTER 32  
HIGH PILED COMBUSTIBLE STORAGE**

**CHAPTER 51  
AEROSOLS**

**CHAPTER 56  
EXPLOSIVES AND FIREWORKS**

**CHAPTER 57**

## FLAMMABLE AND COMBUSTIBLE LIQUIDS

**5704.2.9 Above Ground Tanks.** Above-ground storage of flammable and combustible liquids in tanks shall comply with Section 5704.2.9.1 through ~~5704.2.9.7.9~~ ~~5704.2.9.7.10~~ and the Michigan Aboveground Storage Tank Rules, or their equivalent.

**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 ~~5704.2.11.4.2~~ ~~5704.2.11.5.2~~, and the Michigan Underground Storage Tank Rules, or their equivalent.

**5801.2 Permits.** Permits shall be required as set forth in Sections ~~105.5~~ ~~105.6~~ and ~~105.6~~ ~~105.7~~ and the Michigan Fire Prevention Code 1941 PA 207, as amended, or its equivalent.

### CHAPTER 80 REFERENCED STANDARDS

~~96-17 Standard for Ventilation Control and Fire Protection~~ ~~609.1 of~~  
~~Commercial Cooking Operations~~

~~140-18~~ ~~140-14~~ Standard on Motion Picture and Television Production  
Studio Soundstages, Approved Production Facilities, and Production Locations  
115.5 144.5

Appendix C  
Fire Hydrant Locations and Distributions- Deleted in its entirety

Appendix ~~C~~ D  
Fire Apparatus Access Roads

~~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 18 feet (5486.4 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 devices shall be approved by the code official.~~

- ~~6. 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.~~
- ~~7. Locking device specifications shall be submitted for approval to the code official.~~
- ~~8. 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.~~

### Section 3. Repeal

All ordinances or parts of ordinances in conflict herewith are hereby repealed only to the extent necessary to give this ordinance full force and effect.

### Section 4. Savings

All proceedings pending, and all rights and liabilities existing, acquired or incurred, at the time this Ordinance takes effect, are hereby saved. Such proceedings may be consummated under and according to the ordinance in force at the time such proceedings were commenced. This ordinance shall not be construed to alter, affect, or abate any pending prosecution, or prevent prosecution hereafter instituted under any ordinance specifically or impliedly repealed or amended by this ordinance adopting this penal regulation, for offenses committed prior to the effective date of this ordinance; and new prosecutions may be instituted and all prosecutions pending at the effective date of this ordinance may be continued, for offenses committed prior to the effective date of this ordinance, under and in accordance with the provisions of any ordinance in force at the time of the commission of such offense.

### Section 5. Severability Clause

Should any word, phrase, sentence, paragraph or section of this Ordinance be held invalid or unconstitutional, the remaining provision of this ordinance shall remain in full force and effect.

### Section 6. Effective Date

This Ordinance shall become effective ten (10) days from the date hereof or upon publication, whichever shall later occur.

This Ordinance is enacted by the Council of the City of Troy, Oakland County, Michigan, at a Regular Meeting of the City Council held at City Hall, 500 W. Big Beaver, Troy, MI, on the \_\_\_\_\_ day of \_\_\_\_\_, 2024.

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Ethan D. Baker, Mayor

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M. Aileen Dickson, MMC, City Clerk

## CHAPTER 93- CITY OF TROY FIRE PREVENTION ORDINANCE

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5. Construction permit. A construction permit allows the applicant to install or modify systems of equipment for which a permit is required by Section 105.6.
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**105.3.9 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.

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**115.1 Hazardous materials - Fire Department responsibility.** The Troy 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 Troy and the notification to fire fighting personnel of related hazards. The method and frequency shall be determined by the fire official or his duly authorized representative.

**115.2 Cost Recovery - 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.

**115.3 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 Troy City Code Chapter 103 - Alarm Ordinance.)

**115.4 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.

**115.5 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 that has dimensions larger than 3' in diameter and 2' in height, which burns only seasoned dry firewood and clean untreated lumber intended to minimize the generation of air contaminants and is utilized for occasional special events.

## **SECTION 307 OPEN BURNING, RECREATIONAL FIRES AND PORTABLE OUTDOOR FIREPLACES**

**307.2. Permit Required.** A permit shall be obtained from the fire code official in accordance with Section 105.5 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.

**307.4.4 Ground Fires.** Ground fires shall not be conducted within 25' of a structure or combustible material. Conditions that cause a fire to spread within 25' of a structure shall be eliminated prior to ignition. Ground fires 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.

## **SECTION 404 FIRE SAFETY, EVACUATION AND LOCKDOWN PLANS**

**404.1 General.** Where required by Section 403, fire safety, evacuation, and lockdown plans shall comply with Sections 404.2 through 404.4.2.

**404.4.2 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.

## **SECTION 503**

## **FIRE APPARATUS ACCESS ROADS**

**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:

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

## **SECTION 507 FIRE PROTECTION WATER SUPPLIES**

**507.5.4.1. Removal of Obstructions.** Unobstructed access to fire hydrants shall be maintained at all times. 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 responsible person and shall be collected as any other debt to the City.

## **SECTION 606 COMMERCIAL COOKING EQUIPMENT AND SYSTEMS**

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

**606.1.1 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.

## **CHAPTER 8 INTERIOR FINISH, DECORATIVE MATERIALS AND FINISHINGS**

**CHAPTER 9  
FIRE PROTECTION AND LIFE SAFETY SYSTEMS**

**901.6.4 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.

**901.6.5 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.

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

**CHAPTER 10  
MEANS OF EGRESS**

**1004.9.1 Zoning requirements.** The number of occupants permitted shall also be determined in accordance with Chapter 39 of the Troy City Code (zoning).

**CHAPTER 21  
DRYCLEANING**

**CHAPTER 23  
MOTOR FUEL DISPENSING FACILITIES AND REPAIR GARAGES**

**CHAPTER 32  
HIGH PILED COMBUSTIBLE STORAGE**

**CHAPTER 51  
AEROSOLS**

**CHAPTER 56  
EXPLOSIVES AND FIREWORKS**

**CHAPTER 57  
FLAMMABLE AND COMBUSTIBLE LIQUIDS**

**5704.2.9 Above Ground Tanks.** Above-ground storage of flammable and combustible liquids in tanks shall comply with Section 5704.2.9.1 through

5704.2.9.7.9 and the Michigan Aboveground Storage Tank Rules, or their equivalent.

**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 5704.2.11.4.2, and the Michigan Underground Storage Tank Rules, or their equivalent.

**5801.2 Permits.** Permits shall be required as set forth in Sections 105.5 and 105.6 and the Michigan Fire Prevention Code 1941 PA 207, as amended, or its equivalent.

## **CHAPTER 80 REFERENCED STANDARDS**

140-18 Standard on Motion Picture and Television Production  
Studio Soundstages, Approved Production Facilities, and Production Locations

115.5

### **Appendix C Fire Apparatus Access Roads**