



Drexel Heights Fire District

2018 International Fire Code and Amendments

Adopted

June 22, 2018

Drexel Heights Fire District
5030 S. Camino Verde
Tucson AZ 85735
2018 International Fire Code
And Amendments

On June 22, 2018 following a public hearing, the Drexel Heights Fire District adopted the International Fire Code, 2018 edition in its entirety unless otherwise amended below.

**CHAPTER 1
SCOPE AND ADMINISTRATION**

Section 101.1 Title: These regulations shall be known as the Fire Code of Drexel Heights Fire District (DHFD) hereinafter referred to as "this code".

Section 101.2.1 Appendices: Provisions in the appendices shall not apply unless specifically adopted.

Is hereby **AMENDED** by **ADDING** a new Section: **Section 101.2.1.1 Adopted Appendices:** DHFD hereby adopts the following appendices:

Appendix B - Fire Flow Requirements for Buildings: Is hereby **AMENDED** by **ADDING** the sentences: Buildings not capable of providing fire flow shall be required to install an automatic fire sprinkler system in accordance with Section 903.3.1.3. Additions to existing and newly constructed one- and two-family homes may request a complete fire risk analysis to determine the minimum levels of fire protection.

Appendix C - Fire Hydrant Locations and Distribution

Appendix D - Fire Apparatus Access Roads:

1. **Section D103.6 Signs Exception:** Signs may be modified as directed by the fire code official.

Appendix E - Hazard Categories

Appendix F - Hazard Ranking

Appendix I – Fire Protection Systems – Non-compliant Conditions

Section 110.4 Violation Penalties: Persons who shall violate a provision of this code or shall fail to comply with any of the requirements thereof or who shall erect, install, alter, repair, 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 \$1000 dollars, or by imprisonment not exceeding 365 days, or both such fine and imprisonment. Each day that a violation continues after due notice has been served shall be deemed as a separate offense.

Section 112.4 Failure to Comply: Any person who shall continue any work after having been served with a stop work order, except such work as that person is directed to perform to remove a violation or unsafe condition, shall be guilty of a civil infraction.

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**CHAPTER 2
DEFINITIONS**

Section 202 Definitions: Occupancy Classifications, Group E, Day Care Facilities: Is hereby **AMENDED** by **ADDING** the following:

A single-story Child Care Group Home with up to 10 children defined by Arizona Department of Health Services shall be classified as a Residential Group R-3.

Section 202 Definitions: Institutional Group I-1. Is hereby **AMENDED** by **REPLACING**:
“...more than 16 persons,” with “...more than 10 persons,” in the first sentence.

And is hereby **AMENDED** by **REPLACING sub-section title**:
“Six to sixteen persons receiving care” with “Six to ten persons receiving care”:

And this subsection is hereby **AMENDED** by **REPLACING**:
“...not more than 16 persons”, with “...not more than 10 persons”

Section 202 Definitions: Residential Group R-3. Is hereby **AMENDED** by **REPLACING**:

“Boarding houses (non-transient) with 16 or fewer occupants”, with “Boarding houses (non-transient) with 10 or fewer occupants”

And: “Congregant living facilities (non-transient) with 16 or fewer occupants”, with “Congregant living facilities (non-transient) with 10 or fewer occupants”

Section 202 Definitions: Residential Group R-4. Is hereby **AMENDED** by **REPLACING**:
...more than 16 persons”, with “...more than 10 persons”.

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**CHAPTER 3
GENERAL REQUIREMENTS**

Section 307.3 Extinguishment Authority: Is hereby **AMENDED** by **REPLACING**: When open burning creates or adds to a hazardous situation or a required permit for open burning has not been obtained, the fire code official, fire chief or designated representative is authorized to order the extinguishment of the open burning operation.

Section 313.2 Group R Occupancies: Is hereby **AMENDED** by **ADDING** the words: Vehicles powered by flammable liquids, Class II combustible liquids or compressed flammable gases shall not be stored, operated or repaired within the living space of Group R buildings.

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**CHAPTER 5
FIRE SERVICE FEATURES**

Section 503.1 Where Required: Is hereby **AMENDED** by **ADDING:** Fire apparatus access roads shall be provided and maintained in accordance with Section 503.1.1 through 503.1.3 and Appendix D.

Section 503.2 Specifications: Is hereby **AMENDED** by **ADDING:** Fire apparatus access roads shall be installed and arranged in accordance with Section 503.2.1 through 503.2.8 and Appendix D.

Section 503.2.3 Surface: Is hereby **AMENDED** by **ADDING** the words: Fire apparatus access roads shall be designed and maintained to support the imposed loads of fire apparatus, at least 82,000 pounds (37.195 metric tons), and shall be surfaced so as to provide all-weather driving capabilities. Surfaces shall be comprised of at least 4" of ABC compacted to 95%, or asphalt for grades up to 6%. For grades from 6% to 12%, the surface shall be comprised of asphalt type materials. For grades from 12% to 15%, surfaces shall be comprised of concrete with a traction surfacing.

Section 503.2.7 Grade: Is hereby **AMENDED** by **ADDING** the words: Grades shall not exceed 15% unless approved by the fire code official.

Section 503.3 Marking: Is hereby **AMENDED** by **ADDING** the words: Every fire apparatus access roadway required under the authority of this section shall be posted with signs installed at points not more than one-hundred (100) feet apart along the length of the required fire apparatus access roadway. The bottom of every such sign shall not be less than seven (7) feet or more than ten (10) feet from the ground surface level. Signs shall be posted to face the direction of travel. Construction, installation and maintenance of the signs shall be done at no expense to the District. Materials and locations of each sign shall be indicated in the plans submitted to the fire district. Fire access signs shall conform to the Manual on Uniform Traffic Control Devices. The required sign shall be the international NO PARKING sign with a standard sign size (width and height) of 12 x 18 inches (300 x 450 mm), on a white reflective background. The international NO PARKING symbol shall be a black P, six inches high. Underneath the NO PARKING symbol, in one and 5 eights inch high and one-quarter inch stroke, in red lettering, it shall read:

FIRE LANE TOW-AWAY



Only fire apparatus access roadways required under the authority of this section, or as approved by the chief, may be posted or identified with the approved sign shown above. Alternative signs may be allowed with sufficient documentation and prior approval. Unauthorized signs shall be removed.

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Section 503.6 Security gates:

Add a new subsection: Section 503.6.1 Electric Operating gates: Gates that use electric or other means of power to automatically open or unlock shall have a manual override system. Manual override controls shall be located on the entrance side of gate, or when power has failed, the gate(s) shall open and stay open until power is restored for normal operations.

Add a new section: Section 503.7 Traffic Control Signaling Devices: Traffic control signaling devices serving fire apparatus roadways shall provide preemptive traffic control devices which are compatible with the fire district's existing system.

Add a new Section: Section 503.8 Maintenance: The person(s) in possession of the premises on and into which a fire apparatus access roadway is required shall be solely responsible for the maintenance of such roadways and all required signs. No owner, manager or other person(s) in charge of premises served by a required fire apparatus access roadway shall abandon or close the fire apparatus roadway or any part thereof without permission of the fire code official. The person(s) in possession of the premises shall be responsible for ensuring that fire apparatus roadways are clear of obstructions at all times.

SECTION 505 – PREMISES IDENTIFICATION

Section 505.1 Address Identification: Is hereby **AMENDED** by **ADDING** the following:

Where required by the fire code official, additional address numbers shall be provided in approved locations to facilitate emergency response. Address identification shall be visible from all travel directions along fire apparatus access roadways.

Commercial

Building(s) <50 feet from the curb require 12" numbers displayed on the building.
Building(s) >50 feet from the curb require 15" numbers displayed on the building.
Tenant space numbers shall be 3"
Address range may be displayed in 12" numbers on the building.

Apartments

Entrance numbers shall be 12"
Building numbers shall be 15"
Apartment number ranges displayed below building numbers shall be 8";
Apartment number ranges displayed on signage near the building shall be 2";
Apartment numbers shall be 3" on outside entrances and 1" for interior (hallway) entrances

Number ranges are required on buildings or signage.

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Residential

<50 feet from curb requires 3" tall numbers displayed on the building.

>50 feet from curb requires 3" tall numbers displayed a minimum of 36" above ground at the primary access point.

RV and Mobile Home Parks

Entrance numbers shall be a minimum of 12" tall.

Building numbers shall be a minimum of 6" tall.

Space numbers shall be a minimum of 3" tall.

Miscellaneous Information

The complete address shall be displayed on all corner buildings

Addresses shall be displayed and visible from both directions of approaching vehicles

Numbers and letters shall be made of durable material. (Paint is not acceptable)

Numbers and letters shall be of colors contrasting with the background

Numbers and letters shall have a minimum proportion ration of 6:1 (height to width)

Numbers shall not be spelled out

Address identification shall be maintained at all times.

SECTION 507 – FIRE PROTECTION WATER SUPPLIES

Section 507.1 Required Water Supply: Is hereby **AMENDED** by **ADDING** the following paragraph:

Where property is subdivided with or without the creation of public or private streets for the expressed purpose of providing said subdivided parcels for sale or otherwise permitting separate and/or individual development to occur, an approved water supply, capable of supplying the projected fire flow for fire protection, shall be provided and extended to serve directly any and all subdivided properties. The projected fire flow will be based on the greatest potential demand posed by any type of occupancy allowed by zoning laws on the projected property.

Where existing one- and two-family homes are located in areas having substandard water supplies, and or where the development of a water supply capable of providing full fire flow is impractical, the fire code official shall determine a fire flow or equivalent fire protection for additions made to those homes based upon the provisions of Appendix B, Section 103 in conjunction with a Fire Risk Analysis.

Section 507.3 Fire Flow: Is hereby **AMENDED** by **ADDING/DELETING** the words: Fire flow requirements for buildings or portions of buildings and facilities shall be determined by ~~an approved method~~, Appendix B.

Section 507.5 Fire Hydrant Systems: Is hereby **AMENDED** by **ADDING** the words: Fire hydrant systems shall comply with Section 507.5.1 through 507.5.6 and with Appendix C.

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ADD a new subsection:

Section 507.5.7 Fire Hydrant Markings: Reflective raised two-way roadway fire hydrant markers shall be installed for each fire hydrant. Markers shall be located within the center of the appropriate lane in an approved manner.

ADD a new subsection:

Section 507.5.8 Fire Hydrants Out of Service: All fire hydrants that are placed out of service shall be properly marked or tagged as "Out of Service" with approved markings or tags by the water purveyor.

Section 509.2 Equipment Access: Is hereby **AMENDED** by adding the words: Approved access shall be provided and maintained for all fire protection equipment to permit immediate safe operation and maintenance of such equipment. Storage, trash and other materials or objects shall not be placed or kept in such a manner that would prevent such equipment from being readily accessible. Fire sprinkler risers, fire pumps and controllers shall be located within buildings inside dedicated rooms and accessible through a door having direct access to the building's exterior in accordance with Section 901.4.6.1.

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CHAPTER 6
BUILDING SERVICES AND SYSTEMS

Section 607.1 General: Is hereby **AMENDED** by **ADDING** the words: Commercial kitchen exhaust systems shall comply with the requirements of the International Mechanical Code and the National Fire Protection Association's Standard #96-17 Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations.

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

Section 901.4.6.1 Access: Is hereby **AMENDED** by **DELETING** and **ADDING** the words: Automatic sprinkler system risers, fire pumps and controllers shall be located inside buildings in dedicated rooms provided with ready access. Automatic fire sprinkler risers, fire pumps and controller room doors shall be arranged to allow direct access to the exterior of the building. Where located in a fire pump room or automatic sprinkler system riser room, the door shall be permitted to be locked provided that the key is available at all times in an approved key box.

Section 903.2.1 Group A: Is **AMENDED** to read: An automatic sprinkler system shall be provided throughout all Group A Occupancies

Section 903.2.1.1 Through 903.2.1.5 is **DELETED** in its entirety.

Section 903.2.2 Ambulatory Care Facilities: Is hereby **AMENDED** to read: An automatic sprinkler system shall be installed throughout all floors of a building containing an ambulatory care facility. ~~where either of the following conditions exist at any time:~~ **DELETE** the remainder of the section up to the exception. The exception remains.

Section 903.2.3 Group E: Is hereby **AMENDED** to read: An automatic sprinkler system shall be provided for all floors of a building containing Group E occupancies. ~~as follows:~~ **DELETE** the remainder of the section.

Section 903.2.4 Group F-1: Is hereby **AMENDED** to read: An automatic sprinkler system shall be provided throughout all stories of a building containing a Group F-1 occupancies. ~~where one of the following conditions exists:~~ **DELETE** the remainder of the section.

Section 903.2.4.1 Woodworking Operations: Is hereby **AMENDED** to read: An automatic sprinkler system shall be provided throughout all Group F-1 occupancy fire areas that contain woodworking operations ~~in excess of 2,500 square feet (232 meters squared) in area~~ that generate finely divided combustible waste or use finely divided combustible materials.

Section 903.2.7 Group M: Is hereby **AMENDED** to read: An automatic sprinkler system shall be provided throughout buildings containing Group M occupancies. ~~where one of the following conditions exists:~~ **DELETE** the remainder of the section.

Section 903.2.9 Group S-1: An automatic sprinkler system shall be provided throughout all buildings containing Group S-1 occupancies. ~~where one of the following conditions exists:~~ **DELETE** the remainder of the section.

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Section 903.2.9.1 Repair Garages: Is hereby **AMENDED** by **DELETING:** An automatic sprinkler system shall be provided throughout all buildings used as repair garages. ~~in accordance with Section 406.8 of the International Building Code, as shown;~~ and **DELETING** the remainder of the section.

Section 903.2.9.2 Bulk Storage of Tires: Is hereby **AMENDED** by **DELETING:** Buildings and structures ~~where the area for the storage of tires exceeds 20,000 cubic feet (566 meters cubed)~~ shall be equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1.

Section 904.1.1 Certification of Service Personnel for Fire Extinguishing Equipment: Is **AMENDED** by **ADDING**...performed or possess the appropriate contractor's licenses as issued through the State of Arizona Register of Contractors for the type of system and work performed.

Section 912.2 Location: Is **AMENDED** by **ADDING:** ...Fire department connections shall be located a maximum of 200 feet (60,960mm) from the nearest hydrant.

Section 912.2.1 Visible location: is **AMENDED** by **ADDING:** ... Two raised two-way reflective pavement markers shall be installed on the edge of the pavement to Identify the Fire Department Connections (FDC).

Markers shall be blue 4-inch (10.160 cm) by 4-inch (10.160 cm) STIMSONITE brand, or equivalent, as approved by the fire code official.

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CHAPTER 32
HIGH-PILED COMBUSTIBLE STORAGE

Section 3209.2 Automatic Sprinklers: Is **AMENDED** by **ADDING:** Where automatic sprinklers are required by Table 3206.2 or other sections of this code, the building shall be equipped throughout with an approved automatic sprinkler system in accordance with Section 903.1.1.

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APPENDIX C
FIRE HYDRANT LOCATIONS AND DISTRIBUTION

Section C103.2 Is AMENDED by ADDING: New subdivisions shall start their spacing from the beginning of each street into the subdivision and then spaced accordingly.

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**APPENDIX D
FIRE APPARATUS ACCESS ROADS**

Section D103.1.1 Driveways. Is added to read:

Driveways. Driveways providing access to single family dwelling units shall provide a minimum unobstructed width of 14 feet (4,267mm) and a minimum unobstructed height of 13 feet 6 inches (4,115mm). Driveways in excess of 150 feet (45,720mm) in length shall provide turnarounds. Driveways in excess of 200 feet (60,960mm) in length and less than 20 feet (6,096mm) in width shall provide turnouts in addition to turnarounds. Driveway turnouts shall be an all-weather road surface at least 10 feet (3,048) wide and 30 feet (9,144mm) long. Driveway turnouts shall be located as required by the fire code official.

Drive way turnarounds shall have an inside turning radius of not less than 30 feet (3,048mm) and an outside turning radius of not less than 45 feet (13,716mm).

A driveway shall not serve in excess of five dwelling units.

Section D103.4 Dead Ends Is amended by adding an exception:

In residential subdivisions the cul-de-sac diameters may be reduced to 84 feet, by Pima County Street Standards, on a case by case basis in a variance request when all of the following are met:

- 1) When parking is prohibited within the cul-de-sac.
- 2) When a 20 foot apparatus access road is maintained.
- 3) When proper street signage is provided and maintained