

NORTHWEST FIRE DISTRICT

Amendments to the: 2012 International Fire Code

CHAPTER 1 SCOPE AND ADMINISTRATION

SECTION 101 - SCOPE AND GENERAL REQUIREMENTS

Section 101.1 Title. Is amended to read:

Title. These regulations shall be known as the *Fire Code* of Northwest Fire District, hereinafter referred to as “this code.”

Section 101.2.1 Appendices. Is amended to read:

Appendices. The following appendices are adopted as part of this code:

APPENDIX B, FIRE-FLOW REQUIREMENTS FOR BUILDINGS

APPENDIX C, FIRE HYDRANT LOCATIONS AND DISTRIBUTION

APPENDIX D, FIRE APPARATUS ACCESS ROADS

APPENDIX H, HAZARDOUS MATERIALS MANAGEMENT PLAN

(HMMP) AND HAZARDOUS MATERIALS INVENTORY STATEMENT

(HMIS) INSTRUCTIONS

APPENDIX I, FIRE PROTECTION SYSTEMS-NONCOMPLIANT

CONDITIONS

Section 102.9 Matter not provide for. Amended to read:

Requirements that are essential for the public safety or an existing or proposed activity, building or structure, or for the safety of the occupants thereof, which are not specifically provided for by this code, shall be determined by the fire marshal.

SECTION 113 - FEES

Section 113.2 Schedule of permit fees. Is amended to read:

Schedule of permit fees. Permit fees shall be in accordance with the Northwest Fire District fee schedule.

CHAPTER 2 DEFINITIONS

SECTION 202 - GENERAL DEFINITIONS

Driveway. Is added to read:

Driveway. A vehicular ingress and egress route that serves no more than two buildings or structures, not including accessory structures, or no more than five dwelling units.

Institutional Group I-1. The first sentence is amended to read:

Institutional Group I-1. This occupancy shall include buildings, structures or parts thereof for more than 10 persons who reside on a 24-hour basis in a supervised environment and receive custodial care.

Institutional Group I-1, Six to sixteen persons receiving care. Is amended to read:

Six to ten persons receiving care. A facility such as above, housing at least six and not more than 10 persons receiving such care, shall be classified as Group R-4.

Residential Group R-3. Is amended to read:

Residential Group R-3. Residential occupancies where the occupants are primarily permanent in nature and not classified as Group R-1, R-2, R-4 or I, including:

Boarding houses (transient or non-transient) with 10 or fewer occupants

Buildings that do not contain more than two *dwelling units*

Care facilities that provide accommodations for five or fewer persons receiving care

Congregate living facilities (transient or non-transient) with 10 or fewer occupants

Residential Group R-4. The first sentence is amended to read:

Residential Group R-4. This occupancy shall include buildings, structures or portions thereof for more than five but not more than 10 persons, excluding staff, who reside on a 24-hour basis in a supervised residential environment and receive custodial care.

CHAPTER 3 GENERAL REQUIREMENTS

SECTION 311 - VACANT PREMISES

Section 311.5 Placards. Is amended to read:

Placards. When determined by the *fire code official* any vacant or abandoned buildings or structures determined to be unsafe pursuant to Section 110 of this code relating to structural or interior hazards shall be marked as required by Sections 311.5.1 through 311.5.5.

**CHAPTER 5
FIRE SERVICE FEATURES**

SECTION 505 - PREMISES IDENTIFICATION

Section 505.1 Address numbers. Is amended to read:

Address numbers. New and existing buildings shall have *approved* address numbers, building numbers or *approved* building identification placed in a position that is plainly legible and visible from the street or road fronting the property. Address numbers shall be in accordance with Pima County or Town of Marana address display requirements. Address numbers shall be maintained at all times.

SECTION 507 - FIRE PROTECTION WATER SUPPLIES

Section 507.5.4 Obstruction. Is amended by adding a second paragraph:

Vehicles shall not be placed, parked, or kept within 15 feet (4,572mm) of a fire hydrant. Unless it is a dedicated parking space and not located directly in front of the 15' clearance.

Section 507.5.7 Reflective Pavement Markers. Is added to read:

Reflective Pavement Markers. All fire hydrants and automatic fire sprinkler fire department connections shall be identified by the installation of *approved* blue reflective pavement markers placed in accordance with the *fire code official*.

**CHAPTER 9
FIRE PROTECTION SYSTEMS**

SECTION 901 - GENERAL

Section 901.2 Construction Documents. Is amended by adding a second paragraph:

Automatic *fire protection system* hydraulic calculations shall be based upon 90 percent of the available water supply as determined by the local water purveyor or flow test information.

Section 901.4 Installation. Is amended to read:

Installation. *Fire protection systems* shall be maintained in accordance with the original installation standards for that system. Systems shall be extended, altered, or augmented as necessary to maintain and continue protection whenever the building is altered, remodeled or added to. *Alterations to fire protection systems* shall be done in accordance with applicable standards.

Section 901.4.6 Pump and riser room size. Is amended to read:

Pump and riser room size. Fire pump and *automatic sprinkler system* riser rooms shall be located in a dedicated room and have a door directly accessible from the exterior of the building.

The room shall be designed with adequate space for all equipment necessary for the installation, as defined by the manufacturer, with sufficient working space around the stationary equipment. Clearances around equipment to elements of permanent construction, including other installed equipment and appliances, shall be sufficient to allow inspection, service, repair or replacement without removing such elements of permanent construction or disabling the function of a required fire-resistance-rated assembly. Fire pump and automatic sprinkler system riser rooms shall be provided with a door(s) and an unobstructed passageway large enough to allow removal of the largest piece of equipment.

Section 901.6 Inspection, testing and maintenance. Is amended to read:

Inspection, testing and maintenance. Fire detection, alarm, and extinguishing systems, mechanical smoke exhaust systems, and smoke and heat vents shall be maintained in an operative condition at all times, and shall be replaced or repaired where defective. Non-required *fire protection systems* and equipment shall be inspected, tested and maintained.

Section 901.6.2 Records. Is amended to read:

Records. Records of all system inspections, tests and maintenance required by the referenced standards shall be maintained on the premises for a minimum of three years. All individuals or businesses performing inspections, tests or maintenance required by the referenced standards shall forward itemized reports of such work to the *fire code official* within 30 days of the activity performed.

Section 903 - AUTOMATIC FIRE SPRINKLER SYSTEMS

Section 903.2.1 Group A. Is amended to read:

Group A. An *automatic sprinkler system* shall be provided throughout all Group A occupancies.

Exception: An automatic sprinkler system shall be provided for Group A-2 occupancies where one of the following conditions exists:

1. The fire area exceeds 5,000 square feet.
2. The fire area has an occupant load of 100 or more.
3. The fire area is located on a floor other than at a level of exit discharge.

Section 903.2.3 Group E. Is amended to read:

Group E. An *automatic sprinkler system* shall be provided throughout all Group E occupancies.

Exception: An automatic sprinkler system is not required in any fire area or area below the level of exit discharge where every classroom throughout the building has at least one exterior exit door at ground level.

Section 903.2.4 Group F-1. Is amended to read:

Group F. An *automatic sprinkler system* shall be provided throughout all Group F occupancies.

Section 903.2.4.1. Is deleted in its entirety.

Section 903.2.6 Group I. Is amended to read:

Group I. An *automatic sprinkler system* shall be provided throughout all Group I occupancies.

Section 903.2.7 Group M. Is amended to read:

Group M. An *automatic sprinkler system* shall be provided throughout buildings containing a Group M occupancy where one of the following conditions exists:

1. A Group M *fire area* exceeds 9,000 square feet.
2. A Group M fire area is located more than three stories above grade.
3. The combined area of all Group M fire areas on all floors, including any mezzanines, exceeds 24,000 square feet.
4. A Group M occupancy used for the display and sale of upholstered furniture or mattresses exceeds 5,000 square feet.
5. The fire area has an occupant load of 200 or more.

Section 903.2.8 Group R. Is amended to read:

Group R. An *automatic sprinkler system* shall be provided throughout all Group R-1, R-2 or R-4 occupancies.

Section 903.2.8.1 Group R-3 or R-4 congregate residences. Is amended to read:

Group R-3 or R-4 congregate residencies. An *automatic sprinkler system* shall be provided throughout all Group R-3 or R-4 congregate residences in accordance with section 903.3.1.2 or 903.3.1.3 with 10 or fewer residents.

Section 903.2.8.1.1 Existing Group R-3 or R-4 congregate residencies. Existing Group R-3 or R-4 congregate residencies shall be retrofitted with an *automatic sprinkler system* in accordance with section 903.3.1.2 or 903.3.1.3 within 24 months of discovery or annexation into Northwest Fire District boundaries.

Section 903.2.9 Group S-1. Is amended to read:

Group S-1. An *automatic sprinkler system* shall be provided throughout all Group S-1 occupancies.

Section 903.2.9.1 through Section 903.2.9.2. Is deleted in its entirety.

Section 903.2.10 Group S-2. Is amended to read:

Group S-2. An *automatic sprinkler system* shall be provided throughout all Group S-2 occupancies.

Section 903.2.10.1. Is deleted in its entirety.

Section 903.2.13 Group B. Is added to read.

Group B. An *automatic sprinkler system* shall be provided throughout Group B occupancies when one of the following conditions exists:

1. A Group B fire area exceeds 5,000 square feet.
2. The fire area has an occupant load greater than 50.
3. Located more than one story above grade.

Section 903.4.2.1 Water-flow notification devices. Is added to read:

Water-flow notification devices. An *approved* audible/visual notification appliance shall be installed in a normally occupied interior area of each building or each individual tenant space at the time of a tenant improvement. ADA restrooms within the same area shall have a visual notification appliance located within the room. Such sprinkler water flow notification devices shall be activated by the water flow of a single sprinkler installed in the system.

SECTION 905 - STANDPIPE SYSTEMS

Section 905.8 Dry standpipes. Is amended to read:

Dry standpipes. When required by the *fire code official*, dry standpipes shall be installed when fire apparatus access roads do not meet the requirements as outlined in Appendix D.

Section 912 - FIRE DEPARTMENT CONNECTIONS

Section 912.2 Location. Is amended to read:

Location. Fire department connections shall be located a maximum of 200 feet (60,960mm) from the nearest fire hydrant. With respect to hydrants, driveways, buildings and landscaping, fire department connections shall be so located that fire apparatus and hose connected to supply the system will not obstruct access to the buildings for other fire apparatus. The location of fire department connections shall be *approved* by the *fire code official*.

CHAPTER 11 CONSTRUCTION REQUIREMENTS FOR EXISTING BUILDINGS

SECTION 1103 – FIRE SAFETY REQUIREMENTS FOR EXISTING BUILDINGS

Section 1103.5.3 Fire area increase. Is added to read:

Fire area increase. An *automatic sprinkler system* shall be provided throughout existing buildings or residential occupancies where the square footage of the new *fire area* is greater than 25 percent of the total *fire area* of the existing structure and the required fire-flow for the total *fire area* (new & existing) is not equal to the fire-flow required by Appendix B of this code.

APPENDIX D FIRE APPARATUS ACCESS ROADS

SECTION D103 - MINIMUM SPECIFICATIONS

Section D103.1.1 Driveways. Is added to read:

Driveways. Driveways exceeding 150 feet (45,720mm) in length 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 (6,096mm) 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 (3,048mm) wide and 30 feet (9,144mm) long. Driveway turnouts shall be located as required by the *fire code official*.

Driveway turnarounds shall have an inside turning radius of not less than 30 feet (9,144mm) and an outside turning radius of not less than 45 feet (13,716mm). Driveways that connect with a road or roads at more than one point may be considered as having a turnaround if all changes of direction meet the radius requirements for driveway turnarounds.

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

Section D103.5 Fire apparatus access road gates. Item 1. Is amended to read:

1. The minimum gate width shall be 20 feet (6,096mm) when serving two directions, or 14 feet (4,267mm) when serving a single direction.

Section D103.5 Fire apparatus access road gates. Item 5. Is amended to read:

5. All electric gates shall be equipped with and have installed, *approved* pre-emptive control opening equipment and key switch compatible with the fire department's existing system.

Electric gates serving five or less single family *dwelling units* may utilize an approved key switch only.

Section D103.5 Fire apparatus access road gates. Item 10. Is added to read:

10. Existing electric gates shall be retrofitted with pre-emptive control opening equipment and key switch in accordance with this section upon discovery or annexation into Northwest Fire District boundaries. Compliance with this section shall be completed within a time schedule *approved* by the *fire code official*.

Section D103.6 Signs. Is amended to read:

Signs. Where required by the *fire code official*, the fire apparatus access roads shall be marked with permanent NO PARKING—FIRE LANE signs complying with Northwest Fire District and Town of Marana standards. Signs shall have a minimum dimension of 12 inches (305mm) wide by 18 inches (457mm) high and have red letters on a white reflective background. Signs shall be posted on one or both sides of the fire apparatus access road as required by Section D103.6.1 through D103.6.2.

Section D103.6.2 Roads more than 26 feet in width. Is amended by adding a second paragraph:

Where parking lanes are provided, they shall have a minimum dimension of 8 feet (2,438mm) in width, measured from the back of a wedge or rolled curb, or from the face of a vertical curb.