

**TOWN OF ORO VALLEY AMENDMENTS TO THE  
INTERNATIONAL FIRE CODE, 2018 EDITION**

The following provisions of the International Fire Code, 2018 Edition, as published by the International Code Council, Inc., is hereby amended as follows:

**CHAPTER 1**

In Section 101.1 where it requests [NAME OF JURISDICTION] insert **THE TOWN OF ORO VALLEY.**

Revise Sub-section 101.2.1 as follows:

**101.2.1 Appendices.** Provisions in the appendices shall not apply unless specifically adopted; **THEREFORE, 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-E HAZARD CATEGORIES (AS REFERENCE INFORMATION)**  
**APPENDIX-F HAZARD RANKING**  
**APPENDIX-G CRYOGENIC FLUIDS – WEIGHT AND VOLUME EQUIVALENTS (AS REFERENCE INFORMATION)**

Revise Section 103 “Title” as follows:

**SECTION 103  
DEPARTMENT OF FIRE PREVENTION AND BUILDING SAFETY**

Revise Section 103.1 as follows:

**103.1 General.** The department of fire prevention **AND BUILDING SAFETY** is established within the jurisdiction under the direction of the *fire code official* **IN CONJUNCTION WITH THE BUILDING OFFICIAL**. The function of the department shall be the implementation, administration and enforcement of the provisions of this code.

Revise Section 103.2 as follows:

**103.2 Appointment.** The *fire code official* shall be appointed by the chief appointing authority of the jurisdiction; ~~and the *fire code official* shall not be removed from office except for cause and after full opportunity to be heard on specific and relevant charges by and before the appointing authority.~~ **THE BUILDING OFFICIAL SHALL HAVE EQUAL RESPONSIBILITY FOR ENFORCEMENT OF THIS CODE AND MAY SERVE ALTERNATIVELY WHERE REFERENCE IS MADE TO THE FIRE CODE OFFICIAL.**

Revise Section 105.1.1 as follows:

**105.1.1 Permits required.** Any property owner or owner’s authorized agent who intends to conduct an operation or business, or install or modify systems and equipment that are regulated by this code, or to cause any such work to be performed, shall first make application to the *fire code official* **FOR OPERATIONAL PERMITS, AND TO THE BUILDING OFFICIAL FOR CONSTRUCTION PERMITS**, and obtain the required permits.

Revise Section 105.2 as follows:

**105.2 Application.** Application for a permit required by this code shall be made to the *fire code official* **OR BUILDING OFFICIAL AS PRESCRIBED BY SECTION 105.1.1**, in such form and detail as prescribed by the ~~*fire code official*~~ **APPLICABLE JURISDICTION**. Applications for permits shall be accompanied by such plans as prescribed by the ~~*fire code official*~~ **APPLICABLE JURISDICTION**.

Revise Section 105.3.2 as follows:

**105.3.2 Extensions.** A permittee holding an unexpired permit shall have the right to apply for an extension of the time within which the permittee will commence work under that permit when work is unable to be commenced within the time required by this section for good and satisfactory reasons. The **APPLICABLE** ~~fire code official~~ is authorized to grant, in writing, one or more extensions of the time period of a permit for periods of not more than 180 days each. Such extensions shall be requested by the permit holder in writing and justifiable cause demonstrated. **REQUESTS FOR EXTENSION SHALL BE MADE PRIOR TO EXPIRATION AND SHALL NOT BE GRANTED IF THIS CODE OR ANY OTHER PERTINENT LAWS OR ORDINANCES HAVE BEEN AMENDED SUBSEQUENT TO THE DATE OF APPLICATION. TO RENEW A PERMIT AFTER EXPIRATION, A NEW APPLICATION AND PLANS SHALL BE SUBMITTED AND REVIEW FEES SHALL APPLY AS REQUIRED FOR NEW PERMITS.**

Revise Section 105.3.3 as follows:

**105.3.3 Occupancy prohibited before approval.** The building or structure shall not be occupied prior to the ~~fire code official~~ **BUILDING OFFICIAL** issuing a permit and conducting associated inspections indicating the applicable provisions of this code have been met, **AND UNTIL A CERTIFICATE OF OCCUPANCY HAS BEEN ISSUED.**

Delete all text in Section 105.3.4 “Conditional permits” and replace with the following:

**105.3.4 TEMPORARY CERTIFICATE OF OCCUPANCY. THE BUILDING OFFICIAL IS AUTHORIZED TO ISSUE A TEMPORARY CERTIFICATE OF OCCUPANCY FOR LIMITED OR CONDITIONAL USE OF A BUILDING OR STRUCTURE WHEN REQUESTED BY THE PERMIT APPLICANT. ALL LIFE-SAFETY ELEMENTS ASSOCIATED WITH THE PERMIT SHALL BE COMPLETED AND APPROVED BEFORE REQUESTS WILL BE CONSIDERED.**

Revise Section 105.3.7 as follows:

**105.3.7 Information on the permit APPLICATION.** The **BUILDING OR** ~~fire code official~~ shall issue all permits required by this code on an *approved* form furnished for that purpose. The permit **APPLICATION shall BE COMPLETED AND SIGNED BY THE APPLICANT AND ALL RELEVANT INFORMATION PROVIDED** ~~contain a general description of the operation or occupancy and its location and any other information required by the fire code official.~~ Issued permits shall bear the signature of the ~~fire code official~~ or other *approved* legal authorization.

Revise Section 105.4.1 as follows:

**105.4.1 Submittals.** *Construction documents* and supporting data shall be submitted in two or more sets with each application for a permit and in such form and detail as required by the **BUILDING** ~~fire code official~~. The *construction documents* shall be prepared by a registered design professional ~~where required by the statutes of the jurisdiction in which the project is to be constructed.~~ **AND THE DESIGN OF FIRE PROTECTION SYSTEMS SHALL BE INCLUDED IN THE BUILDING CONSTRUCTION DOCUMENT SUBMITTAL.**

(Exception unchanged)

Delete Sub-section 105.4.4.1 “Phased approval” in its entirety.

Delete the entire text of Section 108.1, 108.2 and 108.3 and replace as follows:

Revise Section 105.6.30 as follows:

**105.6.30 Mobile food preparation vehicles. AN OPERATIONAL permit AND ASSOCIATED INSPECTIONS is ARE** required ~~for~~ **FROM THE REGIONAL FIRE DISTRICT WHEN** mobile food preparation vehicles **ARE** equipped with appliances that produce smoke or grease-laden vapors.

Delete all text in Section 109.1 “Board of appeals established” and replace with the following:

**APPEALS OF DECISIONS OF THE FIRE CODE OR BUILDING OFFICIAL SHALL BE MADE IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, SECTION 113, AS AMENDED.**

Revise Section 106.3 by adding the following text at the end of the section:

**THIS FEE SHALL BE EQUAL TO THE AMOUNT OF THE PERMIT FEE REQUIRED BY THE ADOPTED FEE SCHEDULE. THE PAYMENT OF SUCH FEE SHALL NOT EXEMPT AN APPLICANT FROM COMPLIANCE WITH PROVISIONS OF THIS CODE OR OF OTHER ORDINANCES, NOR FROM ANY PENALTIES PRESCRIBED BY LAW.**

Delete sub-section “109.3 Qualifications” in its entirety.

Revise Section 109.4 as follows:

**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 [SPECIFY OFFENSE], punishable by a fine of not more than [AMOUNT] dollars or by imprisonment not exceeding [NUMBER OF DAYS], or both such fine and imprisonment.~~ **SUBJECT TO PENALTIES AS PRESCRIBED BY LAW.** Each day that a violation continues after due notice has been served shall be deemed a separate offense.

Revise Section 112.4 as follows:

**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 ~~liable to a fine of not less than [AMOUNT] dollars or more than [AMOUNT] dollars~~ **SUBJECT TO PENALTIES AS PRESCRIBED BY LAW.**

## CHAPTER 2

Revise Section 202 by adding the following definitions:

**DRIVEWAY. A VEHICULAR INGRESS AND EGRESS ROUTE THAT SERVES NO MORE THAN TWO NON-RESIDENTIAL BUILDINGS OR STRUCTURES, NOT INCLUDING ACCESSORY STRUCTURES, AND NO MORE THAN FIVE DWELLING UNITS.**

**FIRE RISK ANALYSIS. AN ANALYTICAL REVIEW CONDUCTED BY THE FIRE CODE OFFICIAL IN ACCORDANCE WITH NATIONALLY RECOGNIZED STANDARDS TO DETERMINE LEVELS OF FIRE PROTECTION REQUIREMENTS. THE FIRE CODE OFFICIAL MAY UTILIZE NFPA 1142; THE INTERNATIONAL WILDLAND-URBAN INTERFACE CODE; OR OTHER NATIONALLY RECOGNIZED CODES AND STANDARDS FOR THIS PURPOSE.**

**RESIDENTIAL CARE/ASSISTED LIVING HOME. A BUILDING OR PART THEREOF HOUSING A MAXIMUM OF 16 PERSONS, EXCLUDING STAFF, ON A 24-HOUR BASIS, WHO BECAUSE OF AGE, MENTAL DISABILITY, OR OTHER REASONS, LIVE IN A SUPERVISED RESIDENTIAL ENVIRONMENT WHICH PROVIDES SUPERVISORY, PERSONAL, OR DIRECTED SERVICES. THIS CLASSIFICATION SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING: RESIDENTIAL BOARD AND CARE FACILITIES, ASSISTED LIVING HOMES, HALFWAY HOUSES, GROUP HOMES, CONGREGATE CARE FACILITIES, SOCIAL REHABILITATION FACILITIES, ALCOHOL AND DRUG ABUSE CENTERS, AND CONVALESCENT FACILITIES.**

## CHAPTER 5

Revise Section 503.1 as follows:

**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 APPENDIX D.**

Revise Section 503.2 as follows:

**503.2 Specifications.** Fire apparatus access roads shall be installed and arranged in accordance with Sections 503.2.1 through 503.2.8, **AND APPENDIX D.**

Revise Section 503.2.3 as follows:

**503.2.3 Surface.** Fire apparatus access roads shall be designed and maintained to support the imposed loads of fire apparatus, **OF NOT LESS THAN EIGHTY TWO THOUSAND (82,000) POUNDS (37.195 METRIC TONS)**, and shall be surfaced so as to provide all-weather driving capabilities. **SURFACES SHALL BE COMPRISED OF NOT LESS THAN FOUR INCHES (4”) OF ABC COMPACTED TO NINETY-FIVE PERCENT (95%) OR ASPHALT FOR GRADES UP TO SIX PERCENT (6%). FOR GRADES FROM SIX PERCENT TO TWELVE PERCENT (6%-12%) THE SURFACE SHALL BE COMPRISED OF ASPHALT TYPE MATERIALS. FOR GRADES FROM TWELVE PERCENT TO FIFTEEN PERCENT (12%-15-%) SURFACES SHALL BE COMPRISED OF CONCRETE WITH TRACTION SURFACING. GRADES SHALL NOT EXCEED FIFTEEN PERCENT (15%) UNLESS APPROVED BY THE FIRE CODE OFFICIAL.**

Revise Section 503.2.7 as follows:

**503.2.7 Grade.** The grade of the fire apparatus access road shall be within the limits established by the *fire code official* based on the fire department’s apparatus. **GRADES SHALL NOT EXCEED FIFTEEN PERCENT (15%) UNLESS APPROVED BY THE FIRE CODE OFFICIAL.**

Revise Section 503.3 by adding the following language at the end of the text:

**EVERY FIRE APPARATUS ACCESS ROADWAY REGULATED BY THIS SECTION SHALL BE POSTED WITH SIGNS INSTALLED AT POINTS NOT TO EXCEED ONE-HUNDRED (100) FEET ALONG THE REQUIRED FIRE APPARATUS ACCESS ROADWAY. THE BOTTOM OF EACH SIGN SHALL BE A MINIMUM OF SEVEN (7) FEET BUT SHALL NOT EXCEED TEN (10) FEET ABOVE GRADE LEVEL. SIGNS SHALL FACE IN A DIRECTION THAT WILL BE VISIBLE TO VEHICLE TRAFFIC IN THE LANE OF TRAVEL. MATERIALS AND LOCATIONS OF SIGNS SHALL BE INDICATED ON CONSTRUCTION PLANS SUBMITTED FOR PERMITS. FIRE ACCESS SIGNS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. REQUIRED SIGNS SHALL BE OF THE INTERNATIONAL NO PARKING SIGN TYPE. SIGN WIDTH SHALL BE TWELVE (12) INCHES AND HEIGHT SHALL BE EIGHTEEN (18) INCHES (300 X 450 MM), AGAINST A CONTRASTING WHITE REFLECTIVE BACKGROUND. SIGN CHARACTERS SHALL BE BLACK AND SIX (6) INCHES IN HEIGHT. UNDERNEATH THE NO PARKING SYMBOL, IN ONE-AND-FIVE-EIGHTHS (1-5/8) INCH HIGH AND ONE-QUARTER (1/4) INCH STROKE, IN RED LETTERING, THE SIGN SHALL READ “FIRE ACCESS TOW-AWAY”.**



**ONLY FIRE APPARATUS ACCESS ROADWAYS REQUIRED UNDER THE AUTHORITY OF THIS SECTION OR AS APPROVED BY THE FIRE CODE OFFICIAL MAY BE POSTED OR IDENTIFIED WITH THESE SIGNS. ALTERNATIVE SIGNS MAY BE CONSIDERED FOR APPROVAL BY THE FIRE CODE OFFICIAL. UNAUTHORIZED SIGNS SHALL BE REMOVED.**

Add new Sub-section to Section 503.6 as follows:

**SECTION 503.6.1. ELECTRICALLY POWERED GATES.**

**GATES THAT ARE ELECTRICALLY POWERED AND DESIGNED TO OPEN AUTOMATICALLY, SHALL BE PROVIDED WITH A MANUAL OVERRIDE SYSTEM, AND CONTROLS SHALL BE LOCATED ON THE ENTRANCE SIDE OF THE GATE. AS AN ALTERNATE, IF GATES ARE DESIGNED TO REMAIN IN THE OPEN POSITION IN CASE OF A POWER FAILURE, MANUAL CONTROLS WILL NOT BE REQUIRED.**

Add new Section 503.7 as follows:

**503.7 TRAFFIC CONTROL SIGNALING DEVICES.**

**PREMPTIVE TRAFFIC CONTROL SIGNALING DEVICES SHALL BE INSTALLED ON ALL FIRE APPARATUS ACCESS ROADS WHENEVER NEW ELECTRONIC TRAFFIC CONTROL SIGNALING DEVICES ARE INSTALLED.**

Add a new Section: Section 503.8 as follows:

**508.7 MAINTENANCE.**

**THE PERSON(S) IN POSSESSION OF A PREMISIS WHICH IS SERVED BY A FIRE APPARATUS ACCESS ROADWAY, SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF SUCH ROADWAYS, INCLUDING ALL REQUIRED SIGNAGE. NO OWNER, MANAGER, OR OTHER PERSON(S) IN CHARGE OF PREMISES SERVED SHALL ABANDON OR CLOSE A FIRE APPARATUS ROADWAY OR ANY PART THEREOF WITHOUT PERMISSION FROM THE FIRE CODE OFFICIAL. PERSONS IN POSSESSION OF A PREMISES SERVED BY FIRE APPARATUS ACCESS ROADWAYS SHALL MAINTAIN THEM CLEAR OF ANY OBSTRUCTION.**

Revise Section 505.1 as follows:

**505.1 Premises identification.** New and existing buildings shall be provided with *approved* address identification. The address identification shall be legible and placed in a position that is visible from the street or road fronting the property. Address identification characters shall contrast with their background. Address numbers shall be Arabic numbers or alphabetical letters. Numbers shall not be spelled out. Each character shall be not less than 4 inches (102 mm) high with a minimum stroke width of 1/2 inch (12.7 mm). **IN ACCORDANCE WITH THE TOWN OF ORO VALLEY ADDRESS DISPLAY REQUIREMENTS.** Where required by the *fire code official*, address identification shall be provided in additional *approved* locations to facilitate emergency response. **ADDRESS NUMBERS SHALL BE VISIBLE FROM ALL DIRECTIONS OF TRAVEL ALONG FIRE APPARATUS ACCESS ROADWAYS.** Where access is by means of a private road and the building **ADDRESS** cannot be viewed from the *public way*, a monument, pole or other sign or means shall be used to identify the structure. Address identification shall be maintained.

Revise Section 507.1 as follows:

**507.1 Required water supply.** An *approved* water supply capable of supplying the required fire flow for fire protection shall be provided to premises on which facilities, buildings or portions of buildings are hereafter constructed or moved into or within the jurisdiction. **WHERE PROPERTY IS SUBDIVIDED WITH OR WITHOUT THE CREATION OF PUBLIC OR PRIVATE STREETS, FOR THE EXPRESSED PURPOSE OF PROVIDING SUBDIVIDED PARCELS FOR SALE OR OTHERWISE PERMITTING SEPARATE 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 ALL SUBDIVIDED PROPERTIES. THE FIRE FLOW DESIGN SHALL BE BASED UPON THE GREATEST PROJECTED DEMAND FOR ANY OCCUPANCY TYPE PERMITTED BY THE ZONING ALLOWED FOR THE PROPERTY.**

**WHERE EXISTING ONE OR TWO-FAMILY HOMES ARE LOCATED IN AREAS HAVING INADEQUATE WATER SUPPLIES OR WHERE THE DEVELOPMENT OF A WATER SUPPLY CAPABLE OF PROVIDING THE REQUIRED FIRE FLOW IS IMPRACTICAL, THE FIRE CODE OFFICIAL SHALL DETERMINE AN**

**EQUIVALENT MEANS OF FIRE PROTECTION FOR ADDITIONS MADE TO THOSE HOMES. THIS SHALL BE BASED UPON THE PROVISIONS OF APPENDIX B, SECTION 103, AND IN CONJUNCTION WITH A FIRE RISK ANALYSIS.**

**EXCEPTION: ADDITIONS TO EXISTING AND NEWLY CONSTRUCTED ONE OR TWO-FAMILY DWELLINGS LOCATED IN AREAS WITHOUT ADEQUATE WATER SUPPLIES, WHERE THE DEVELOPMENT OF ADEQUATE FIRE-FLOW IS IMPRACTICAL, MAY COMPLY WITH THE PROVISIONS OF APPENDIX B SECTION B103 WHEN FIRST APPROVED BY THE *FIRE CODE OFFICIAL*.**

Revise Section 507.3 as follows:

**507.3 Fire flow.** Fire flow requirements for buildings or portions of buildings and facilities shall be determined ~~by an approved method~~ **IN ACCORDANCE WITH APPENDIX B OF THIS CODE OR BY A FIRE RISK ANALYSIS.**

Revise Section 507.5 as follows:

**507.5 Fire hydrant systems.** Fire hydrant systems shall comply with Sections 507.5.1 through 507.5.6 **AND WITH APPENDIX C OF THIS CODE.**

Add new Sub-section 507.5.7 as follows:

**507.5.7 FIRE HYDRANT MARKERS. REFLECTIVE RAISED TWO-WAY ROADWAY FIRE HYDRANT MARKERS SHALL BE INSTALLED AT EACH HYDRANT LOCATION. INSTALLATION AND MARKER BRAND SHALL BE APPROVED BY THE FIRE CODE OFFICIAL. MARKERS SHALL BE BLUE IN COLOR AND THE SIZE SHALL BE FOUR (4) INCHES (10.16 CM) BY FOUR (4) INCHES (10.16 CM).**

Add new Sub-section 507.5.8 as follows:

**507.5.8 FIRE HYDRANTS OUT OF SERVICE. ALL FIRE HYDRANTS THAT ARE PLACED OUT OF SERVICE SHALL BE EFFECTIVELY IDENTIFIED AS “OUT OF SERVICE” WITH APPROVED MARKINGS OR TAGS. MARKINGS AND TAGS SHALL REMAIN ON THE FIRE HYDRANT UNTIL REMOVAL IS AUTHORIZED BY THE WATER PURVEYOR. THE WATER PURVEYOR SHALL NOTIFY THE FIRE CODE OFFICIAL WHEN HYDRANTS ARE PLACED BACK IN SERVICE.**

Add new Sub-section 509.1.2 as follows:

**509.1.2 ELECTRICAL SERVICE SHUTOFF ACCESS. WHEN ELECTRICAL SHUTOFF CONTROLS ARE LOCATED WITHIN A BUILDING, DIRECT ACCESS SHALL BE PROVIDED BY MEANS OF A DOOR TO THE EXTERIOR OF THE BUILDING, AND SHALL BE PROVIDED WITH SIGNAGE IDENTIFYING THE ACCESS LOCATION.**

## CHAPTER 6

Revise Section 607.1 as follows:

**607.1 General.** Commercial kitchen exhaust hoods shall comply with the requirements of the *International Mechanical Code* **AND THE NATIONAL FIRE PROTECTION ASSOCIATION, STANDARD 96-17, STANDARD FOR VENTILATION CONTROL AND FIRE PROTECTION OF COMMERCIAL COOKING OPOERATIONS.**

Revise Section 607.3.3.1 by adding the following text at the end of the last sentence:

**AND SHALL BE CONDUCTED IN ACCORDANCE WITH NFPA 96, CHAPTER 11.**

## CHAPTER 9

Revise Section 901.2 by adding the following text at the end of the section:

**LAYOUT, CALCULATION, AND INSTALLATION OF FIRE PROTECTION SYSTEMS SHALL BE PERFORMED BY PERSONS TRAINED AND QUALIFIED IN SUCH SYSTEMS. A CURRENT ARIZONA LICENSE FROM THE REGISTER OF CONTRACTORS SHALL BE REQUIRED TO INSTALL FIRE PROTECTION SYSTEMS. INSTALLERS SHALL FOLLOW ALL MANUFACTURER GUIDELINES FOR INSTALLATION, INSPECTION, AND TESTING.**

Revise Section 901.4.6.1 as follows:

**Section 901.4.6.1 Access.** Automatic sprinkler system risers, fire pumps and controllers shall be **LOCATED INSIDE BUILDINGS IN ROOMS DEDICATED FOR THAT PURPOSE AND BE** provided with ready access. Where located in a fire pump room or automatic sprinkler system riser room, the door shall **PROVIDE DIRECT ACCESS FROM THE EXTERIOR OF THE BUILDING, AND SHALL** be permitted to be locked, provided that the key is available at all times **LOCATED IN AN AFTER-HOURS FIRE DEPARTMENT KEY BOX.**

Revise Section 903.1 by adding the following text at the end of the section:

**WHERE IT'S REQUIRED THAT A BUILDING OR PORTION THEREOF BE EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM, SPRINKLER SYSTEMS SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE STANDARDS OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA). COMMERCIAL OCCUPANCIES SHALL BE EQUIPPED WITH AUTOMATIC FIRE SPRINKLER SYSTEMS INSTALLED AND DESIGNED IN ACCORDANCE WITH NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS. IN BUILDINGS OF GROUP R-1 AND R-2 OCCUPANCIES UP TO AND INCLUDING FOUR STORIES IN HEIGHT, WHEN FIRST APPROVED BY THE FIRE CODE OFFICIAL, AUTOMATIC SPRINKLER SYSTEMS MAY BE INSTALLED IN ACCORDANCE WITH NFPA 13R, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS IN LOW-RISE RESIDENTIAL OCCUPANCIES. IN BUILDINGS OF GROUP R-3 AND R-4 OCCUPANCIES, AUTOMATIC SPRINKLER SYSTEMS MAY BE INSTALLED IN ACCORDANCE WITH NFPA 13D, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS IN ONE AND TWO-FAMILY DWELLINGS AND MANUFACTURED HOMES.**

Revise Section 903.2.1.1 as follows:

**903.2.1.1 Group A-1.** An automatic sprinkler system shall be provided throughout **ALL** stories containing group A-1 occupancies and throughout all stories from the group A-1 occupancy. ~~to and including the levels of exit discharge serving that occupancy where one of the following conditions exists:~~

**(Delete remainder of section)**

Revise Section 903.2.1.2 as follows:

**903.2.1.2 Group A-2.** An automatic fire sprinkler system shall be provided throughout **ALL** stories **OF A BUILDING** containing Group A-2 occupancies. ~~and throughout all stories from the Group A-2 occupancy to and including the levels of exit discharge serving that occupancy where one of the following conditions exists:~~

**(Delete remainder of section)**

Revise Section 903.2.1.3 as follows:

**903.2.1.3 Group A-3.** An automatic fire sprinkler system shall be provided throughout **ALL** stories **OF A BUILDING** containing Group A-3 occupancies. ~~and throughout all stories from the Group A-3 occupancy to and including the levels of exit discharge serving that occupancy where one of the following conditions exists:~~

**(Delete remainder of section)**

Revise Section 903.2.1.4 as follows:

**903.2.1.4 Group A-4.** An automatic sprinkler system shall be provided throughout **ALL** stories **OF A BUILDING** containing Group A-4 occupancies. ~~and throughout all stories from the Group A-4 occupancy to and including the levels of exit discharge serving that occupancy where one of the following conditions exists:~~

(Delete remainder of section)

Revise Section 903.2.1.5 as follows:

**903.2.1.5 Group A-5.** An *automatic sprinkler system* shall be provided for all enclosed Group A-5 **AMUSEMENT PARK STRUCTURES IN ACCORDANCE WITH SECTION 914.7, STADIUMS** and accessory use areas in excess of 1000 square feet (92 m<sup>2</sup>).

Revise Section 903.2.2 as follows:

**903.2.2 Ambulatory care facilities.** An *automatic sprinkler system* shall be installed throughout **ALL floors OF A BUILDING** containing an ambulatory care facility.

(Delete remainder of section, but retain the exception)

Revise Section 903.2.3 as follows:

**Section 903.2.3 Group E.** An *automatic sprinkler system* shall be provided throughout **ALL FLOORS OF A BUILDING CONTAINING** Group E occupancies. ~~as follows:~~

(Delete remainder of section)

Revise Section 903.2.4 as follows:

**Section 903.2.4 Group F-1.** An *automatic sprinkler system* shall be provided throughout all **STORIES OF** a buildings containing a Group F-1 occupancy. ~~where one of the following conditions exists:~~

(Delete remainder of section)

Revise Section 903.2.4.1 as follows:

**903.2.4.1 Woodworking operations:** 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 m<sup>2</sup>) in area~~ that generate finely divided combustible waste or use finely divided combustible materials.

Revise Section 903.2.5.3 as follows:

**903.2.5.3 Pyroxylin plastics.** An *automatic sprinkler system* shall be provided in buildings, or portion thereof, where cellulose nitrate film or pyroxylin plastics are manufactured, stored or handled ~~in quantities exceeding 100 pounds (45 kg).~~

Revise Section 903.2.6 Exceptions 2. and 3. as follows:

2. An *automatic sprinkler system* is ~~not~~ required where Group I-4 day care facilities are ~~at the level of exit discharge and where every room where care is provided has not fewer than one exterior exit door.~~

3. In buildings where Group I-4 day care is provided ~~on levels other than the level of exit discharge,~~ an *automatic sprinkler system* in accordance with Section 903.3.1.4 3 shall be installed ~~on the entire floor where care is provided,~~ all floors ~~between the level of care and the level of exit discharge and all floors below the level of exit discharge~~ other than areas classified as an open parking garage.

Revise Section 903.2.7 as follows:

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

(Delete remainder of section)



Revise Section 903.2.8 Group R. by adding the following exception:

**EXCEPTION: AUTOMATIC FIRE SPRINKLER SYSTEMS SHALL NOT BE REQUIRED IN TYPE R-3 OCCUPANCIES, BUT CAN BE USED TO MEET THE FIRE FLOW REQUIREMENTS OF SECTION B105 AND TABLES B105.1 (1) AND B105.1 (2).**

Revise Section 903.2.9 as follows:

**903.2.9 Group S-1:** An *automatic sprinkler system* shall be provided throughout all buildings containing a Group S-1 occupancy. ~~where one of the following conditions exists:~~

**(Delete remainder of section)**

Revise Section 903.2.9.1 as follows:

**903.2.9.1 Repair garages:** 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:~~

**(Delete remainder of section)**

Revise Section 903.2.9.2 as follows:

**903.2.9.2 Bulk storage of tires.** Buildings and structures ~~where the area~~ for the storage of tires ~~exceeds 20,000 cubic feet (566m<sup>3</sup>)~~ shall be equipped throughout with an *automatic sprinkler system* in accordance with Section 903.3.1.1.

Revise Section 903.2.10 as follows:

**903.2.10 Group S-2 enclosed parking garages.** An *automatic sprinkler system* shall be provided throughout buildings classified as enclosed parking garages in accordance with Section 406.6 of the *International Building Code* **OR WHEN THE ENCLOSED PARKING GARAGE IS LOCATED BENEATH OTHER GROUPS.** ~~where either of the following conditions exists:~~

- ~~1. Where the area of the enclosed parking garage exceeds 12,000 square feet (1115m<sup>2</sup>)~~
- ~~2. Where the enclosed parking garage is located beneath other groups.~~

**Exception:** Enclosed parking garages located beneath Group R-3 occupancies.

Revise Section 903.2.10.1 as follows:

**903.2.10.1 Commercial parking garages:** An *automatic sprinkler system* shall be provided throughout buildings used for storage of commercial motor vehicles ~~where the area exceeds 5000 square feet (4.64 m<sup>2</sup>).~~

Add new sub-section 903.2.10.2 as follows:

**903.2.10.2 GROUP S-2 STORAGE FACILITIES. AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903 SHALL BE PROVIDED THROUGHOUT ALL BUILDINGS CLASSIFIED AS GROUP S-2 LOW HAZARD STORAGE FACILITIES WHEN ANY OF THE FOLLOWING CONDITIONS EXIST:**

- 1. THE TOTAL FLOOR AREA OF THE BUILDING IS IN EXCESS OF 1500 SQUARE FEET (139.4 M<sup>2</sup>)**
- 2. THE PRODUCTS BEING STORED ARE NOT ACCESSIBLE FOR FIRE HOSE STREAM APPLICATION FROM THE MAIN ENTRANCE DUE TO RACKS OR OTHER ARRANGEMENTS OF STORAGE.**
- 3. THE BUILDING IS OF COMBUSTIBLE CONSTRUCTION.**

Delete Section 903.2.11 “Specific buildings areas and hazards.” in its entirety.

Delete Section 903.2.11.1 “Stories without openings.” in its entirety.

Delete Section 903.2.11.1.1 “Opening dimensions and access.” in its entirety.

Delete Section 903.2.11.2 “Openings on one side only.” in its entirety.

Delete Section 903.2.11.3 “Buildings 55 feet or more in height.” in its entirety.

Delete the entire text in Section 903.1.1.2 and replace with the following:

**SPRINKLERS SHALL BE PROVIDED THROUGHOUT ALL AREAS OF BATHROOMS, INCLUDING ALL ENCLOSED TOILET ROOMS IN GROUP R OCCUPANCIES.**

Add new sub-section 903.3.1.1.3 as follows:

**903.3.1.1.3 PORCHES AND GARAGES. IN GROUP R OCCUPANCIES, SPRINKLERS SHALL NOT BE REQUIRED FOR PORCHES, PATIOS, AND SIMILAR STRUCTURES WHERE OPEN ON TWO OR MORE SIDES OR WHERE THE COVERED AREA DOES NOT EXCEED FOUR FEET (1219 MM) IN WIDTH. SPRINKLERS ARE REQUIRED IN ALL GARAGES OF GROUP R OCCUPANCIES.**

**EXCEPTION: GARAGES FOR TYPE R-3 OCCUPANCIES WHERE THE FIRE FLOW REQUIREMENTS OF SECTION B105 AND TABLES B105.1 (1) AND B105.1 (2) ARE OTHERWISE MET.**

Add new sub-section 903.3.1.3.1 as follows:

**903.3.1.3.1 EXISTING BUILDING FIRE AREA INCREASE. AN APPROVED NFPA 13D *AUTOMATIC SPRINKLER SYSTEM* SHALL BE PROVIDED THROUGHOUT THE ENTIRE FIRE AREA, INCLUDING EXISTING AREAS, WHERE THE FIRE FLOW REQUIREMENTS OF SECTION B105 AND TABLES B105.1 (1) AND B105.1 (2) ARE NOT OTHERWISE MET.**

Add new sub-section 903.3.1.3.2 as follows:

**PLAN SUBMITTALS FOR NFPA 13D SYSTEMS. NFPA 13D *AUTOMATIC SPRINKLER SYSTEM* PLANS SHALL BE SUBMITTED TO THE FIRE CODE OFFICIAL FOR REVIEW AND APPROVAL AND SHALL BE PREPARED BY PERSONS WHO POSSESS A NATIONAL INSTITUTE FOR THE CERTIFICATION OF ENGINEERING TECHNOLOGIES (NICET) LEVEL III CERTIFICATION. THE WATER METER SIZE SHALL BE INDICATED ON THE PLANS AND BE CAPABLE OF FLOWING NOT LESS THAN 35 GALLONS PER MINUTE (132.5 LPM).**

Revise Section 903.3.1.2 by adding the following text at the end of the section:

**AN APPROVED *AUTOMATIC SPRINKLER SYSTEM* SHALL BE PROVIDED THROUGHOUT ALL GROUP R1 AND R2 OCCUPANCIES FOR EVERY FACILITY, BUILDING OR PORTION OF A BUILDING WHICH IS CONSTRUCTED OR MOVED INTO THE JURISDICTION. *AUTOMATIC SPRINKLER SYSTEMS* SHALL BE PROVIDED THROUGHOUT THE ENTIRE FIRE AREA, INCLUDING EXISTING AREAS, WHEN THE FIRE-FLOW IS NOT AVAILABLE AT THE RATE PRESCRIBED BY TABLE B105.1 FOR THE TOTAL BUILDING AREA AND CONSTRUCTION TYPE BEING CONSIDERED. APPROVED *AUTOMATIC SPRINKLER SYSTEMS* SHALL BE PROVIDED THROUGHOUT THE ENTIRE FIRE AREA WHEN THERE IS A CHANGE OF USE CREATING A NEW R-1 OR R-2 OCCUPANCY.**

Revise Section 903.3.5 by adding the following text at the end of the section:

**FIRE RISERS SHALL BE LOCATED WITHIN A BUILDING. THE RISER LOCATION SHALL BE CONSPICUOUSLY IDENTIFIED WITH PERMANENT SIGNAGE, WITH LETTERING HEIGHT OF NOT LESS THAN ONE INCH (25MM) ON A CONTRASTING BACKGROUND. UNDERGROUND RISER SUPPLY LINES SHALL BE VISUALLY INSPECTED, PRESSURE TESTED, AND FLUSHED PRIOR TO CONNECTION TO THE RISER AND OVERHEAD PIPING. INSPECTIONS SHALL BE WITNESSED BY THE FIRE CODE OFFICIAL. ALL RISER ASSEMBLIES SHALL CONTAIN A RUBBER-FACED CHECK VALVE AND A PRESSURE GAUGE.**

Revise Section 903.5 by adding the following text at the end of the section:

**FIRE PROTECTION SYSTEMS SHALL BE MAINTAINED IN ACCORDANCE WITH THE INSTALLATION STANDARDS IN EFFECT FOR THAT SYSTEM ON THE DATE OF INSTALLATION AND IN ACCORDANCE WITH THE CURRENTLY ADOPTED EDITION OF NFPA 25. FIRE PROTECTION SYSTEMS SHALL BE ALTERED OR IMPROVED IN A MANNER THAT WILL EFFECTIVELY MAINTAIN PROTECTION WHEN A BUILDING IS ALTERED, REMODELED OR ADDED TO. ALTERATIONS TO FIRE PROTECTION SYSTEMS SHALL BE IN ACCORDANCE WITH APPLICABLE STANDARDS AND BE PRE-APPROVED BY THE *FIRE CODE OFFICIAL*.**

Revise Section 905.3.4 by replacing Class III with Class I and by deleting the exception.

Delete Sub-Section 905.3.4.1 “Hose and cabinet.” in its entirety.

Add new Sub-section 912.1.1 as follows:

**912.1.1 FIRE DEPARTMENT CONNECTION FOR NFPA 13D SYSTEMS. NFPA 13D SYSTEMS WHICH ARE NOT SUPPLIED FROM A MUNICIPAL, PUBLIC, OR PRIVATE WATER PURVEYOR, SHALL HAVE A SINGLE SNOOT 1-1/2 INCH (38 MM) FIRE DEPARTMENT CONNECTION (FDC), OR SHALL HAVE AN AUTOMATIC BACKUP POWER SUPPLY FOR THE SYSTEM WATER PUMP. SYSTEMS FOR TYPE R-3 OCCUPANCIES GREATER THAN 5000 SQUARE FEET (465 METERS<sup>2</sup>) IN FIRE AREA SHALL BE EQUIPPED WITH A SINGLE SNOOT 1-1/2 INCH (38 MM) FDC.**

Revise Section 912.2 by adding the following text at the end of the section:

**NFPA 13 AND NFPA 13R SYSTEM FIRE DEPARTMENT CONNECTIONS (FDC’S) SHALL BE INSTALLED ON THE FIRE DEPARTMENT ACCESS SIDE OF BUILDINGS AND SHALL BE READILY DISTINGUISHABLE FROM THE FIRE ACCESS SIDE. FDC’S SHALL BE LOCATED NOT LESS THAN 18 INCHES (457 MM) NOR GREATER THAN 48 INCHES (1219 MM) ABOVE THE ADJOINING SURFACE OR GRADE. READY ACCESS TO FDC’S SHALL BE PROVIDED WITH A MINIMUM UNOBSTRUCTED AND MAINTAINED WORKING SPACE IN ACCORDANCE WITH SECTION 912.4.2.**

## CHAPTER 21

Revise Section 2108.2 “Automatic sprinkler system” by deleting the exception.

## CHAPTER 32

Revise Section 3209.2 as follows:

**3209.2 Automatic sprinklers.** 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 903.3.1.1.

## CHAPTER 38

Revise Section 3803.1.7 as follows:

**3803.1.7 Automatic fire-extinguishing systems.** New laboratories in new or existing buildings ~~that increase maximum allowable quantities of hazardous materials based on the requirements in this chapter~~ shall be equipped throughout with an *approved automatic sprinkler system* in accordance with Section 903.3.1.1.

Delete Section 3805 “Nonsprinklered Laboratories” in its entirety.

## CHAPTER 56

Revise Subsection 5601.2.3 as follows:

**5601.2.3 Permit restrictions. THE STORAGE OF EXPLOSIVES, EXPLOSIVE MATERIALS, AND BLASTING AGENTS IS PROHIBITED WITHIN THE BOUNDARIES OF THE TOWN OF ORO VALLEY.** The *fire code official* is authorized to limit the quantity of *explosives, explosive materials*, or fireworks permitted **FOR SALE OR FOR USE** at a given location. Persons possessing a permit for storage **OR USE** of *explosives* at any place, shall not keep or store an amount greater than authorized in such permit. Only the kind of *explosive* specified in such a permit shall be kept or stored.

## CHAPTER 57

Revise Subsection 5704.2.9.6.1 and add an exception as follows:

**5704.2.9.6.1 Locations where above-ground tanks are prohibited.** The storage of Class I and II liquids in above-ground tanks outside of buildings, **THAT EXCEED 5,000 GALLONS (18,927 LITERS) IN AGGREGATE VOLUME**, is prohibited within the **BOUNDARIES OF THE TOWN OF ORO VALLEY** ~~limits established by law as the limits of districts in which such storage is prohibited~~ (**JURISDICTION TO SPECIFY**).

**EXCEPTION: FUEL STORAGE FOR PRIVATE AIRCRAFT, WHEN LOCATED NOT LESS THAN 500 FEET FROM A SINGLE FAMILY RESIDENCE, MAY HAVE AN AGGREGATE VOLUME NOT TO EXCEED 10,000 GALLONS (37,854 LITERS).**

Revise Sub-section 5706.2.4.4 and add an exception as follows:

**5706.2.4.4 Locations where above-ground tanks are prohibited.** The storage of Class I and II liquids in above-ground tanks **EXCEEDING 5,000 GALLONS (18,927 LITERS) IN AGGREGATE VOLUME** is prohibited within the **BOUNDARIES OF THE TOWN OF ORO VALLEY** ~~limits established by law as the limits of districts in which such storage is prohibited~~ (**JURISDICTION TO SPECIFY**).

**EXCEPTION: FUEL STORAGE FOR PRIVATE AIRCRAFT, WHEN LOCATED NOT LESS THAN 500 FEET FROM A SINGLE FAMILY RESIDENCE, MAY HAVE AN AGGREGATE VOLUME NOT TO EXCEED 10,000 GALLONS (37,854 LITERS).**

## CHAPTER 61

Revise Section 6104.2 as follows:

**6104.2 Maximum capacity within established limits.** Within the ~~limits established by law restricting~~ **BOUNDARIES OF THE TOWN OF ORO VALLEY**, the storage of liquefied petroleum gas **SHALL BE LIMITED TO AN** ~~for the protection of heavily populated or congested areas, the aggregate capacity of any one installation shall not~~ **TO** exceed a water capacity of 2,000 gallons (7570 L) (**JURISDICTION TO SPECIFY**).

(Exception unchanged)

## APPENDIX B

Revise Section B103.1 by adding the following text at the end of the section:

**CONSIDERATION FOR FIRE-FLOW REDUCTION FOR NEWLY CONSTRUCTED AND EXISTING ONE- AND TWO-FAMILY RESIDENCES SHALL BE THROUGH A FIRE RISK ANALYSIS. THE MEANS OF DETERMINING MINIMUM LEVELS OF FIRE PROTECTION IN AREAS HAVING INADEQUATE FIRE-FLOW SHALL BE ESTABLISHED BY THE FIRE CODE OFFICIAL.**

Revise Section B103.3 as follows:

**B103.3 Areas without INADEQUATE water supply systems.** For information regarding water supplies for fire-fighting purposes in rural and suburban areas in which adequate and reliable water supply systems do not exist, **AND THE DEVELOPMENT OF FULL *FIRE-FLOW* IS IMPRACTCAL**, the *fire code official* is authorized to utilize NFPA 1142, ~~or~~ the *International Wildland-Urban Interface Code*, **OR OTHER RECOGNIZED STANDARDS TO CONDUCT A FIRE RISK ANALYSIS OF THE AREA. THIS ANALYSIS SHALL ESTABLISH THE MINIMUM LEVEL OF FIRE PROTECTION NECESSARY FOR ALL BUILDINGS PROPOSED TO BE CONSTRUCTED.**

Revise Section B105.1 as follows:

**B105.1 One- and two-family dwellings, Group R-3 and R-4 buildings and townhouses.** The minimum *fire-flow* and flow duration requirements for one- and two-family *dwellings*, Group R-3 and R-4 buildings, ~~and townhouses~~, **AND DETACHED ACCESSORY STRUTURES**, shall be as specified in Tables B105.1 (1) and B105.1 (2).

#### APPENDIX D

Revise Section D102.1 by replacing 75,000 (34,050 kg) with 82,000 (37,195 KG).

Revise Section D103.4 by adding the following exception after Table D103.4:

**EXCEPTION: IN RESIDENTIAL SUBDIVISIONS THE CUL-DE-SAC DIAMETER MAY BE REDUCED TO 84 FEET (25.4 M) WHEN PARKING IS PROHIBITED WITHIN THE CUL-DE-SAC.**

Add new Section D103.6.3 as follows:

**D103.6.3 SIGN SPACING AND VISIBILITY. SIGNS REQUIRED BY SECTIONS D103.6.1 AND D103.6.2 SHALL BE SPACED AT INTERVALS NOT TO EXCEED 150 FEET (45.72 M). SIGNS REQUIRED BY SECTION D103.6.2 SHALL BE MOUNTED IN A MANNER THAT THEY ARE LEGIBLE FROM EITHER TRAFFIC LANE OR DIRECTION OF TRAVEL.**