

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

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

**CHAPTER 1**

At Section 101.1 where it asks for [NAME OF JURISDICTION] insert [THE TOWN OF ORO VALLEY].

Revise the last sentence of the text in Section 101.2 and add the following text:

Provisions in the appendices shall not apply unless specifically adopted, **THEREFORE, THE FOLLOWING APPENDICES ARE ADOPTED AS PART OF THIS CODE:**

**APPENDIX B- RATES OF RAINFALL FOR VARIOUS CITIES (AS AMENDED)**

**APPENDIX C- STRUCTURAL SAFETY**

**APPENDIX D- DEGREE DAY AND DESIGN TEMPERATURES**

**APPENDIX E- SIZING OF WATER PIPING SYSTEM**

(Exception to remain unchanged)

Delete Section 104 in its entirety and substitute Section 104 of the 2018 edition of the International Building Code with amendments thereto, in its entirety.

Delete Section 106.3.3 in its entirety and substitute Section 105.3.2 of the 2018 edition of the International Building Code with Amendments thereto, in its entirety.

Delete Section 106.5.3 in its entirety and replace with the following text:

**106.5.3 EXPIRATION. EVERY PERMIT ISSUED SHALL BECOME INVALID UNLESS THE WORK AUTHORIZED BY SUCH PERMIT IS COMMENCED WITHIN 180 DAYS AFTER ISSUANCE, OR IF THE WORK AUTHORIZED BY SUCH PERMIT IS SUSPENDED OR ABANDONED FOR A PERIOD OF 180 DAYS AFTER THE TIME THE WORK IS COMMENCED. THE CODE OFFICIAL IS AUTHORIZED TO GRANT, IN WRITING, ONE OR MORE EXTENSIONS OF TIME, FOR PERIODS NOT TO EXCEED 180 DAYS. EXTENSIONS SHALL BE REQUESTED IN WRITING PRIOR TO EXPIRATION OF THE PERMIT, AND JUSTIFIABLE CAUSE DEMONSTRATED. BEFORE WORK DEEMED TO HAVE EXPIRED CAN BE RECOMMENCED, THE PERMIT SHALL FIRST BE RENEWED, AND THE FEE THEREFORE SHALL BE ONE HALF THE AMOUNT REQUIRED FOR A NEW PERMIT, PROVIDED NO CHANGES HAVE BEEN MADE OR WILL BE MADE TO THE ORIGINAL PLANS AND SPECIFICATIONS FOR SUCH WORK, AND PROVIDED FURTHER THAT SUCH SUSPENSION OR ABANDONMENT HAS NOT EXCEEDED ONE YEAR. IN ORDER TO RENEW A PERMIT WHICH HAS BEEN EXPIRED FOR GREATER THAN 1 YEAR, THE PERMITTEE SHALL PAY A FEE EQUIVALENT TO A NEW PERMIT.**

Delete Section 106.6 in its entirety and substitute Section 109 of the 2018 edition of the International Building Code with Amendments thereto, in its entirety.

Revise Section 108.4 as follows:

**108.4 Violation penalties.** Any 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 or repair plumbing work in violation of the *approved* construction documents or directive of the code official, or of a permit or certificate issued under the 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 the last sentence of Section 108.5 as follows:

Any person who shall continue any work in or about the structure 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. EACH DAY THAT A VIOLATION OF A STOP WORK ORDER CONTINUES AFTER DUE NOTICE HAS BEEN SERVED SHALL BE DEEMED A SEPARATE OFFENSE.**

Delete Section 109 in its entirety and substitute Section 113 of the 2018 edition of the International Building Code with Amendments thereto, in its entirety.

### CHAPTER 3

Insert these numbers into Sub-Section 305.4.1 as follows:

**305.4.1 Sewer Depth.** *Building sewers* that connect to private sewage disposal systems shall be installed not less than ~~[NUMBER]~~ **12** inches (**304** mm) below finished grade at the point of septic tank connection. *Building sewers* shall be installed not less than ~~[NUMBER]~~ **12** inches (**304** mm) below grade.

Revise Section 312.1 as follows:

**312.1 Required tests.** The permit holder shall make the applicable tests prescribed in Sections 312.2 through 312.10 to determine compliance with the provisions of this code. The permit holder shall give reasonable advance notice to the code official when the plumbing work is ready for tests **INSPECTION.** The equipment, material, power and labor necessary for the inspection and test shall be furnished by the permit holder and he or she shall be responsible for determining that the work will withstand the test pressure prescribed in the ~~following~~ tests. Plumbing system piping shall be tested with either water or, ~~for piping systems other than plastic,~~ by air. ~~After the plumbing fixtures have been set and their traps filled with water, the entire drainage system shall be submitted to final tests. The code official shall require the removal of any cleanouts if necessary to ascertain whether the pressure has reached all parts of the system.~~

Revise Sub-Section 314.2.1 by adding the following at the end of the paragraph:

**APPROVED LOCATIONS FOR TERMINATION OF CONDENSATE DRAINS SHALL BE AS FOLLOWS:**

- 1. INTO AN ACCESSIBLE FIXTURE TAILPIECE THROUGH A DIRECTIONAL FIXTURE FITTING.**
- 2. FUNNEL DRAIN, WASTE AIR GAP FITTING, FLOOR SINK, MOP SINK OR LAUNDRY TRAY.**
- 3. AT OR BELOW GRADE OUTSIDE OF THE BUILDING IN AN AREA CAPABLE OF ABSORBING CONDENSATE FLOW WITHOUT SURFACE DRAINAGE.**
- 4. OVER ROOF DRAINS THAT CONNECT TO DRAINAGE PIPES, PROVIDED THEY TERMINATE AT OR ABOVE GRADE IN AN AREA CAPABLE OF ABSORBING CONDENSATE FLOW WITHOUT SURFACE DRAINAGE.**

#### CHAPTER 4

At Sub-Section 405.3.1 add a second Exception 2. as follows:

**2. SIDE CLEARANCES FOR ACCESSIBLE OR AMBULATORY WATER CLOSETS SHALL COMPLY WITH ICC/ANSI A117.1.**

Revise Section 410.4 by adding the following text at the end of the section:

**BOTTLED WATER MAY BE SUBSTITUTED FOR DRINKING FOUNTAINS IN TYPE-M OCCUPANCIES WHEN THE TOTAL FLOOR AREA DOES NOT EXCEED 1500 SQUARE FEET (140 M<sup>2</sup>). WHEN THIS SUBSTITUTION IS MADE, AND THERE ARE IMPROVEMENTS DONE THAT INCLUDE THE ADDITION OR RELOCATION OF PLUMBING FIXTURES, A WATER SUPPLY AND RECEPTACLE OUTLET FOR A DRINKING FOUNTAIN SHALL BE PROVIDED FOR FUTURE USE.**

Revise Section 410.5 as follows:

**410.5 Prohibited locations.** Drinking fountains, water coolers and water dispensers shall not be installed in public restrooms, **AND WHEN REQUIRED BY CODE, SHALL BE LOCATED IN AN AREA THAT IS READILY ACCESSIBLE TO THE PUBLIC.**

Add new section 425.5 to read as follows:

**425.5 SURROUNDING MATERIAL. WALLS WITHIN 2 FEET (610 MM) OF WATER CLOSETS SHALL HAVE A SMOOTH, HARD, NONABSORBENT SURFACE TO A HEIGHT OF NOT LESS THAN 4 FEET (1219 MM) ABOVE THE FLOOR LEVEL.**

#### CHAPTER 5

Revise Section 504.6 Requirements for discharge piping. by striking item 2. as follows and reserving the numbering:

~~2. Discharge through an *air gap* located in the same room as the water heater.~~

Add new Sub-Section 504.6.1 to read as follows:

**504.6.1 REPLACEMENT WATER HEATERS. WHEN WATER HEATERS ARE REPLACED AND IT IS IMPRACTICAL TO RUN THE TEMPERATURE AND PRESSURE RELIEF VALVE LINE TO AN OTHERWISE APPROVED DISCHARGE POINT, INSTALLATION IN ACCORDANCE WITH THE FOLLOWING SHALL BE CONSIDERED COMPLIANT:**

- 1. A DRAIN PAN SHALL BE INSTALLED UNDER THE WATER HEATER.**
- 2. THE TEMPERATURE RELIEF VALVE SHALL BE SET TO A MAXIMUM OF 210 DEGREES AND THE PRESSURE RELIEF VALVE TO 150 PSI, AND A RELEIF LINE SHALL DRAIN INTO THE PAN.**

**CHAPTER 6**

Revise Table 604.4 as follows:

**TABLE 604.4  
MAXIMUM FLOW RATES AND CONSUMPTION FOR  
PLUMBING FIXTURES AND FIXTURE FITTINGS**

<b>PLUMBING FIXTURE OR FIXTURE FITTING</b>	<b>MAXIMUM FLOW RATE OR QUANTITY<sup>b</sup></b>
Lavatory, private	2.2 gpm at 60 psi
Lavatory, public (metering)	0.25 gallon per metering cycle
Lavatory, public (other than metering)	0.5 gpm at 60 psi
Shower head <sup>a</sup>	2.5 gpm at 80 psi
Sink faucet	2.2 gpm at 60 psi
Urinal	<del>1.0</del> <b>0.125</b> gallon per flushing cycle
Water closet	1.6 gallons per flushing cycle

For SI: 1 gallon = 3.785 L, 1 gallon per minute = 3.785 L/m,

1 pound per square inch = 6.895 kPa, **.125 GALLON = .48 L.**

- a. A hand-held shower spray is a shower head.
- b. Consumption tolerances shall be determined from referenced standards.

CHAPTER 7

Revise Section 714.1 as follows:

**714.1 Sewage backflow.** Where plumbing fixtures are installed on a floor with a finished floor elevation **LESS THAN 12 INCHES (305 MM) ABOVE** ~~below~~ the elevation of the manhole cover of the next upstream manhole in the public *sewer*, such fixtures shall be protected by a backwater valve installed in the *building drain*, or horizontal *branch* serving **THAT FLOOR LEVEL** ~~such fixtures~~. Plumbing fixtures installed on a floor **LEVELS AT ELEVATIONS 12 INCHES (305 MM) OR GREATER THAN** ~~with a finished floor elevation above~~ the elevation of the manhole cover of the next upstream manhole in the public *sewer* shall not discharge through **THE SAME** a backwater valve.

(Exception to remain unchanged)

CHAPTER 9

At section 903.1 where it asks for [NUMBER] insert [6].

Add new Section 903.8 as follows:

**903.8 VENT SUPPORT. VENTS THAT EXTEND 36 INCHES (914 MM) OR MORE ABOVE ROOFS OR GRADE SHALL BE SECURED WITH A GUY WIRE OR EQUIVALENT SUPPORT TO EFFECTIVELY MAINTAIN ALIGNMENT.**

CHAPTER 13

Delete the text in Section 1302 ON-SITE NONPOTABLE WATER REUSE SYSTEMS in its entirety and replace with the following:

**REGULATED UNDER ARIZONA ADMINISTRATIVE CODE (A.A.C.) TITLE 18, CHAPTER 9.**

APPENDIX B

Revise APPENDIX B for “Arizona” as follows:

**Arizona:**

Flagstaff.....	2.4
Nogales.....	3.1
Phoenix.....	2.5
<b>TUCSON.....</b>	<b>3.0</b>
Yuma.....	1.6