



City of Phoenix

PLANNING & DEVELOPMENT DEPARTMENT

PHOENIX BUILDING CONSTRUCTION CODE

Amendment to 2018 International Plumbing Code (IPC) Sections 103, 104, 105, 106, 107, 108, 109, & 110

Submitted by: 2018 International Plumbing Code Committee

PART 2—ADMINISTRATION AND ENFORCEMENT

SECTION 103 DEPARTMENT OF PLUMBING INSPECTION - Reserved.

~~[A] 103.1 General.~~

~~The department of plumbing inspection is hereby created and the executive official in charge thereof shall be known as the code official.~~

~~[A] 103.2 Appointment.~~

~~The code official shall be appointed by the chief appointing authority of the jurisdiction.~~

~~[A] 103.3 Deputies.~~

~~In accordance with the prescribed procedures of this jurisdiction and with the concurrence of the appointing authority, the code official shall have the authority to appoint a deputy code official, other related technical officers, inspectors and other employees. Such employees shall have powers as delegated by the code official.~~

~~[A] 103.4 Liability.~~

~~The code official, member of the board of appeals or employee charged with the enforcement of this code, while acting for the jurisdiction in good faith and without malice in the discharge of the duties required by this code or other pertinent law or ordinance, shall not thereby be rendered civilly or criminally liable personally, and is hereby relieved from all personal liability for any damage accruing to persons or property as a result of any act or by reason of an act or omission in the discharge of official duties.~~

~~[A] 103.4.1 Legal defense.~~

~~Any suit or criminal complaint instituted against any officer or employee because of an act performed by that officer or employee in the lawful discharge of duties and under the provisions of this code shall be defended by the legal representative of the jurisdiction until the final termination of the proceedings. The code official or any subordinate shall not be liable for costs in any action, suit or proceeding that is instituted in pursuance of the provisions of this code.~~

SECTION 104 DUTIES AND POWERS OF THE CODE OFFICIAL – Reserved.

~~[A] 104.1 General.~~

~~The code official is hereby authorized and directed to enforce the provisions of this code. The code official shall have the authority to render interpretations of this code and to adopt policies and procedures in order to clarify the application of its provisions. Such interpretations, policies and procedures shall be in compliance with the intent and purpose of this code. Such policies and procedures shall not have the effect of waiving requirements specifically provided for in this code.~~

~~[A] 104.2 Applications and permits.~~

~~The code official shall receive applications, review construction documents and issue permits for the installation and alteration of plumbing systems, inspect the premises for which such permits have been issued, and enforce compliance with the provisions of this code.~~

~~[A] 104.3 Inspections.~~

~~The code official shall make all the required inspections, or shall accept reports of inspection by approved agencies or individuals. Reports of such inspections shall be in writing and be certified by a responsible officer of such approved agency or by the responsible individual. The code official is authorized to engage such expert opinion as deemed necessary to report on unusual technical issues that arise, subject to the approval of the appointing authority.~~

~~[A] 104.4 Right of entry.~~

~~Where it is necessary to make an inspection to enforce the provisions of this code, or where the code official has reasonable cause to believe that there exists in any building or on any premises any conditions or violations of this code that make the building or premises unsafe, insanitary, dangerous or hazardous, the code official shall have the authority to enter the building or premises at all reasonable times to inspect or to perform the duties imposed upon the code official by this code. If such building or premises is occupied, the code official shall present credentials to the occupant and request entry. If such building or premises is unoccupied, the code official shall first make a reasonable effort to locate the owner, the owner's authorized agent or other person having charge or control of the building or premises and request entry. If entry is refused, the code official shall have recourse to every remedy provided by law to secure entry.~~

~~Where the code official shall have first obtained a proper inspection warrant or other remedy provided by law to secure entry, the owner, owners authorized agent, occupant or person having charge, care or control of any building or premises shall not fail or neglect, after proper request is made as herein provided, to promptly permit entry therein by the code official for the purpose of inspection and examination pursuant to this code.~~

~~[A] 104.5 Identification.~~

~~The code official shall carry proper identification when inspecting structures or premises in the performance of duties under this code.~~

~~[A] 104.6 Notices and orders.~~

~~The code official shall issue all necessary notices or orders to ensure compliance with this code.~~

~~[A] 104.7 Department records.~~

~~The code official shall keep official records of applications received, permits and certificates issued, fees collected, reports of inspections, and notices and orders issued. Such records shall be retained in the official records for the period required for the retention of public records.~~

SECTION 105 APPROVAL – Reserved.

~~[A] 105.1 Modifications.~~

~~Where there are practical difficulties involved in carrying out the provisions of this code, the code official shall have the authority to grant modifications for individual cases, upon application of the owner or owner's authorized agent, provided that the code official shall first find that special individual reason makes the strict letter of this code impractical and the modification conforms to the intent and purpose of this code and that such modification does not lessen health, life and fire safety requirements. The details of action granting modifications shall be recorded and entered in the files of the plumbing inspection department.~~

~~[A] 105.2 Alternative materials, design and methods of construction and equipment.~~

~~The provisions of this code are not intended to prevent the installation of any material or to prohibit any design or method of construction not specifically prescribed by this code, provided that any such alternative has been *approved*. An alternative material or method of construction shall be *approved* where the code official finds that the proposed design is satisfactory and complies with the intent of the provisions of this code, and that the material, method or work offered is, for the purpose intended, not less than the equivalent of that prescribed in this code in quality, strength, effectiveness, fire resistance, durability and safety. Where the alternative material, design or method of construction is not *approved*, the code official shall respond in writing, stating the reasons why the alternative was not *approved*.~~

~~[A] 105.2.1 Research reports.~~

~~Supporting data, where necessary to assist in the approval of materials or assemblies not specifically provided for in this code, shall consist of valid research reports from *approved* sources.~~

~~[A] 105.3 Required testing.~~

~~Where there is insufficient evidence of compliance with the provisions of this code, or evidence that a material or method does not conform to the requirements of this code, or in order to substantiate claims for alternate materials or methods, the code official shall have the authority to require tests as evidence of compliance to be made at no expense to the jurisdiction.~~

~~[A] 105.3.1 Test methods.~~

~~Test methods shall be as specified in this code or by other recognized test standards. In the absence of recognized and accepted test methods, the code official shall approve the testing procedures.~~

~~[A] 105.3.2 Testing agency.~~

~~Tests shall be performed by an *approved* agency.~~

~~[A] 105.3.3 Test reports.~~

~~Reports of tests shall be retained by the code official for the period required for retention of public records.~~

~~[A] 105.4 Approved materials and equipment.~~

~~Materials, equipment and devices *approved* by the code official shall be constructed and installed in accordance with such approval.~~

~~[A] 105.4.1 Material and equipment reuse.~~

~~Materials, equipment and devices shall not be reused unless such elements have been reconditioned, tested, placed in good and proper working condition and *approved*.~~

SECTION 106 PERMITS – Reserved.

~~[A] 106.1 Where required.~~

~~Any owner, owner's authorized agent or contractor who desires to construct, enlarge, alter, repair, move, demolish or change the occupancy of a building or structure, or to erect, install, enlarge, alter, repair, remove, convert or replace any plumbing system, the installation of which is regulated by this code, or to cause any such work to be performed, shall first make application to the code official and obtain the required permit for the work.~~

~~[A] 106.1.1 Annual permit.~~

~~Instead of an individual construction permit for each alteration to an already *approved* system or equipment or appliance installation, the code official is authorized to issue an annual~~

permit upon application therefor to any person, firm or corporation regularly employing one or more qualified tradespersons in the building, structure or on the premises owned or operated by the applicant for the permit.

[A] 106.1.2 Annual permit records.

The person to whom an annual permit is issued shall keep a detailed record of alterations made under such annual permit. The code official shall have access to such records at all times or such records shall be filed with the code official as designated.

[A] 106.2 Exempt work.

The following work shall be exempt from the requirement for a permit:

1. The stopping of leaks in drains, water, soil, waste or vent pipe provided, however, that if any concealed trap, drainpipe, water, soil, waste or vent pipe becomes defective and it becomes necessary to remove and replace the same with new material, such work shall be considered as new work and a permit shall be obtained and inspection made as provided in this code.
2. The clearing of stoppages or the repairing of leaks in pipes, valves or fixtures, and the removal and reinstallation of water closets, provided that such repairs do not involve or require the replacement or rearrangement of valves, pipes or fixtures.

Exemption from the permit requirements of this code shall not be deemed to grant authorization for any work to be done in violation of the provisions of this code or any other laws or ordinances of this jurisdiction.

[A] 106.3 Application for permit.

Each application for a permit, with the required fee, shall be filed with the code official on a form furnished for that purpose and shall contain a general description of the proposed work and its location. The application shall be signed by the owner or owner's authorized agent. The permit application shall indicate the proposed occupancy of all parts of the building and of that portion of the site or lot, if any, not covered by the building or structure and shall contain such other information required by the code official.

[A] 106.3.1 Construction documents.

Construction documents, engineering calculations, diagrams and other such data shall be submitted in two or more sets with each application for a permit. The code official shall require construction documents, computations and specifications to be prepared and designed by a registered design professional where required by state law. Construction documents shall be drawn to scale and shall be of sufficient clarity to indicate the location, nature and extent of the work proposed and show in detail that the work conforms to the provisions of this code. Construction documents for buildings more than two stories in height shall indicate where penetrations will be made for pipes, fittings and components and shall indicate the materials and methods for maintaining required structural safety, fire resistance rating and fireblocking.

Exception: The code official shall have the authority to waive the submission of construction documents, calculations or other data if the nature of the work applied for is such that reviewing of construction documents is not necessary to determine compliance with this code.

[A] 106.3.2 Preliminary inspection.

Before a permit is issued, the code official shall be authorized to inspect and evaluate the systems, equipment, buildings, devices, premises and spaces or areas to be used.

[A] 106.3.3 Time limitation of application.

An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application has been pursued in good faith or a permit has been issued; except that the code official shall have the authority to grant one or more extensions of time for additional periods not exceeding 180 days each. The extension shall be requested in writing and justifiable cause demonstrated.

[A] 106.4 By whom application is made.

Application for a permit shall be made by the person or agent to install all or part of any plumbing system. The applicant shall meet all qualifications established by statute, or by rules promulgated by this code, or by ordinance or by resolution. The full name and address of the applicant shall be stated in the application.

[A] 106.5 Permit issuance.

The application, construction documents and other data filed by an applicant for permit shall be reviewed by the code official. If the code official finds that the proposed work conforms to the requirements of this code and all laws and ordinances applicable thereto, and that the fees specified in Section 106.6 have been paid, a permit shall be issued to the applicant.

[A] 106.5.1 Approved construction documents.

When the code official issues the permit where construction documents are required, the construction documents shall be endorsed in writing and stamped "APPROVED." Such *approved* construction documents shall not be changed, modified or altered without authorization from the code official. Work shall be done in accordance with the *approved* construction documents. The code official shall have the authority to issue a permit for the construction of a part of a plumbing system before the entire construction documents for the whole system have been submitted or *approved*, provided that adequate information and detailed statements have been filed complying with all pertinent requirements of this code. The holders of such permit shall proceed at their own risk without assurance that the permit for the entire plumbing system will be granted.

[A] 106.5.2 Validity.

The issuance of a permit or approval of construction documents shall not be construed to be a permit for, or an approval of, any violation of any of the provisions of this code or any other ordinance of the jurisdiction. A permit presuming to give authority to violate or cancel the provisions of this code shall not be valid.

The issuance of a permit based on construction documents and other data shall not prevent the code official from thereafter requiring the correction of errors in said construction documents and other data or from preventing building operations being carried on thereunder where in violation of this code or of other ordinances of this jurisdiction.

[A] 106.5.3 Expiration.

Every permit issued by the code official under the provisions of this code shall expire by limitation and become null and void if the work authorized by such permit is not commenced within 180 days from the date of such permit, or if the work authorized by such permit is suspended or abandoned at any time after the work is commenced for a period of 180 days. Before such work can be recommenced, a new permit shall be first obtained and the fee therefore shall be one half the amount required for a new permit for such work, provided that changes have not been made and will not be made in the original construction documents for

such work, and provided further that such suspension or abandonment has not exceeded 1 year.

[A] 106.5.4 Extensions.

Any 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 code official shall extend the time for action by the permittee for a period not exceeding 180 days if there is reasonable cause. A permit shall not be extended more than once. The fee for an extension shall be one half the amount required for a new permit for such work.

[A] 106.5.5 Suspension or revocation of permit.

The code official shall have the authority to suspend or revoke a permit issued under the provisions of this code wherever the permit is issued in error or on the basis of incorrect, inaccurate or incomplete information, or in violation of any ordinance or regulation or any of the provisions of this code.

[A] 106.5.6 Retention of construction documents.

One set of *approved* construction documents shall be retained by the code official for a period of not less than 180 days from date of completion of the permitted work, or as required by state or local laws.

One set of *approved* construction documents shall be returned to the applicant, and said set shall be kept on the site of the building or work at all times during which the work authorized thereby is in progress.

[A] 106.5.7 Previous approvals.

This code shall not require changes in the construction documents, construction or designated occupancy of a structure for which a lawful permit has been heretofore issued or otherwise lawfully authorized, and the construction of which has been pursued in good faith within 180 days after the effective date of this code and has not been abandoned.

[A] 106.5.8 Posting of permit.

The permit or a copy shall be kept on the site of the work until the completion of the project.

[A] 106.6 Fees.

A permit shall not be issued until the fees prescribed in Section 106.62 have been paid, and an amendment to a permit shall not be released until the additional fee, if any, due to an increase of the plumbing systems, has been paid.

[A] 106.6.1 Work commencing before permit issuance.

Any person who commences any work on a plumbing system before obtaining the necessary permits shall be subject to 100 percent of the usual permit fee in addition to the required permit.

[A] 106.6.2 Fee schedule.

The fees for all plumbing work shall be as indicated in the following schedule:

[JURISDICTION TO INSERT APPROPRIATE SCHEDULE]

[A] 106.6.3 Fee refunds.

The code official shall authorize the refunding of fees as follows:

1. ~~The full amount of any fee paid hereunder that was erroneously paid or collected.~~
2. ~~Not more than [SPECIFY PERCENTAGE] percent of the permit fee paid where work has been done under a permit issued in accordance with this code.~~
3. ~~Not more than [SPECIFY PERCENTAGE] percent of the plan review fee paid where an application for a permit for which a plan review fee has been paid is withdrawn or canceled before any plan review effort has been expended.~~

~~The code official shall not authorize the refunding of any fee paid except upon written application filed by the original permittee not later than 180 days after the date of fee payment.~~

SECTION 107 INSPECTIONS AND TESTING – Reserved.

[A] 107.1 General.

~~The code official is authorized to conduct such inspections as are deemed necessary to determine compliance with the provisions of this code. Construction or work for which a permit is required shall be subject to inspection by the code official, and such construction or work shall remain visible and able to be accessed for inspection purposes until *approved*. Approval as a result of an inspection shall not be construed to be an approval of a violation of the provisions of this code or of other ordinances of the jurisdiction. Inspections presuming to give authority to violate or cancel the provisions of this code or of other ordinances of the jurisdiction shall not be valid. It shall be the duty of the permit applicant to cause the work to remain visible and able to be accessed for inspection purposes. Neither the code official nor the jurisdiction shall be liable for expense entailed in the removal or replacement of any material required to allow inspection.~~

[A] 107.2 Required inspections and testing.

~~The code official, upon notification from the permit holder or the permit holder's agent, shall make the following inspections and such other inspections as necessary, and shall either release that portion of the construction or shall notify the permit holder or an agent of any violations that must be corrected. The holder of the permit shall be responsible for the scheduling of such inspections:~~

1. ~~Underground inspection shall be made after trenches or ditches are excavated and bedded piping installed, and before any backfill is put in place.~~
2. ~~Rough-in inspection shall be made after the roof, framing, fire blocking, firestopping, draft stopping and bracing is in place and all sanitary, storm and water distribution piping is roughed-in, and prior to the installation of wall or ceiling membranes.~~
3. ~~Final inspection shall be made after the building is complete, all plumbing fixtures are in place and property connected, and the structure is ready for occupancy.~~

[A] 107.2.1 Other inspections.

~~In addition to the inspections specified in Section 107.2, the code official shall be authorized to make or require other inspections of any construction work to ascertain compliance with the provisions of this code and other laws that are enforced.~~

[A] 107.2.2 Inspection requests.

It shall be the duty of the holder of the permit or their duly authorized agent to notify the code official when work is ready for inspection. It shall be the duty of the permit holder to provide access to and means for inspections of such work that are required by this code.

[A] 107.2.3 Approval required.

Work shall not be done beyond the point indicated in each successive inspection without first obtaining the approval of the code official. The code official, upon notification, shall make the requested inspections and shall either indicate the portion of the construction that is satisfactory as completed, or notify the permit holder or his or her agent wherein the same fails to comply with this code. Any portions that do not comply shall be corrected and such portion shall not be covered or concealed until authorized by the code official.

[A] 107.2.4 Approved agencies.

The code official is authorized to accept reports of *approved* inspection agencies, provided that such agencies satisfy the requirements as to qualifications and reliability.

[A] 107.2.5 Evaluation and follow-up inspection services.

Prior to the approval of a closed, prefabricated plumbing system and the issuance of a plumbing permit, the code official shall require the submittal of an evaluation report on each prefabricated plumbing system indicating the complete details of the plumbing system, including a description of the system and its components, the basis on which the plumbing system is being evaluated, test results and similar information, and other data as necessary for the code official to determine conformance to this code.

[A] 107.2.5.1 Evaluation service.

The code official shall designate the evaluation service of an *approved* agency as the evaluation agency, and review such agency's evaluation report for adequacy and conformance to this code.

[A] 107.2.5.2 Follow-up inspection.

Except where ready access is provided to all plumbing systems, service equipment and accessories for complete inspection at the site without disassembly or dismantling, the code official shall conduct the frequency of in-plant inspections necessary to ensure conformance to the *approved* evaluation report or shall designate an independent, *approved* inspection agency to conduct such inspections. The inspection agency shall furnish the code official with the follow-up inspection manual and a report of inspections on request, and the plumbing system shall have an identifying label permanently affixed to the system indicating that factory inspections have been performed.

[A] 107.2.5.3 Test and inspection records.

Required test and inspection records shall be available to the code official at all times during the fabrication of the plumbing system and the erection of the building, or such records as the code official designates shall be filed.

[A] 107.3 Special inspections.

Special inspections of alternative engineered design plumbing systems shall be conducted in accordance with Sections 107.31 and 107.32.

[A] 107.3.1 Periodic inspection.

The registered design professional or designated inspector shall periodically inspect and observe the *alternative engineered design* to determine that the installation is in accordance with the *approved* construction documents. Discrepancies shall be brought to the immediate attention of the plumbing contractor for correction. Records shall be kept of all inspections.

~~[A] 107.3.2 Written report.~~

~~The registered design professional shall submit a final report in writing to the code official upon completion of the installation, certifying that the *alternative engineered design* conforms to the *approved* construction documents. A notice of approval for the plumbing system shall not be issued until a written certification has been submitted.~~

~~[A] 107.4 Testing.~~

~~Plumbing work and systems shall be tested as required in Section 312 and in accordance with Sections 107.4.1 through Tests shall be made by the permit holder and observed by the code official.~~

~~[A] 107.4.1 New, altered, extended or repaired systems.~~

~~New plumbing systems and parts of existing systems that have been altered, extended or repaired shall be tested as prescribed herein to disclose leaks and defects, except that testing is not required in the following cases:~~

- ~~1. In any case that does not include addition to, replacement, alteration or relocation of any water supply, drainage or vent piping.~~
- ~~2. In any case where plumbing equipment is set up temporarily for exhibition purposes.~~

~~[A] 107.4.2 Equipment, material and labor for tests.~~

~~Equipment, material and labor required for testing a plumbing system or part thereof shall be furnished by the permit holder.~~

~~[A] 107.4.3 Reinspection and testing.~~

~~Where any work or installation does not pass any initial test or inspection, the necessary corrections shall be made to comply with this code. The work or installation shall then be resubmitted to the code official for inspection and testing.~~

~~[A] 107.5 Approval.~~

~~After the prescribed tests and inspections indicate that the work complies in all respects with this code, a notice of approval shall be issued by the code official.~~

~~[A] 107.5.1 Revocation.~~

~~The code official is authorized to, in writing, suspend or revoke a notice of approval issued under the provisions of this code wherever the notice is issued in error, or on the basis of incorrect information supplied, or where it is determined that the building or structure, premise or portion thereof is in violation of any ordinance or regulation or any of the provisions of this code.~~

~~[A] 107.6 Temporary connection.~~

~~The code official shall have the authority to authorize the temporary connection of the building or system to the utility source for the purpose of testing plumbing systems or for use under a temporary certificate of occupancy.~~

~~[A] 107.7 Connection of service utilities.~~

~~A person shall not make connections from a utility, source of energy, fuel, power, water system or sewer system to any building or system that is regulated by this code for which a permit is required until authorized by the code official.~~

SECTION 108 VIOLATIONS – Reserved.

[A] 108.1 Unlawful acts.

It shall be unlawful for any person, firm or corporation to erect, construct, alter, repair, remove, demolish or utilize any plumbing system, or cause same to be done, in conflict with or in violation of any of the provisions of this code.

[A] 108.2 Notice of violation.

The code official shall serve a notice of violation or order to the person responsible for the erection, installation, alteration, extension, repair, removal or demolition of plumbing work in violation of the provisions of this code, or in violation of a detail statement or the *approved* construction documents thereunder, or in violation of a permit or certificate issued under the provisions of this code. Such order shall direct the discontinuance of the illegal action or condition and the abatement of the violation.

[A] 108.3 Prosecution of violation.

If the notice of violation is not complied with promptly, the code official shall request the legal counsel of the jurisdiction to institute the appropriate proceeding at law or in equity to restrain, correct or abate such violation, or to require the removal or termination of the unlawful occupancy of the structure in violation of the provisions of this code or of the order or direction made pursuant thereto.

[A] 108.4 Violation penalties.

Any person 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. Each day that a violation continues after due notice has been served shall be deemed a separate offense.

[A] 108.5 Stop work orders.

Upon notice from the code official, work on any plumbing system that is being performed contrary to the provisions of this code or in a dangerous or unsafe manner shall immediately cease. Such notice shall be in writing and shall be given to the owner of the property, or to the owners authorized agent, or to the person performing the work. The notice shall state the conditions under which work is authorized to resume. Where an emergency exists, the code official shall not be required to give a written notice prior to stopping the work. 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.

[A] 108.6 Abatement of violation.

The imposition of the penalties herein prescribed shall not preclude the legal officer of the jurisdiction from instituting appropriate action to prevent unlawful construction or to restrain, correct or abate a violation, or to prevent illegal occupancy of a building, structure or premises, or to stop an illegal act, conduct, business or utilization of the plumbing on or about any premises.

[A] 108.7 Unsafe plumbing.

Any plumbing regulated by this code that is unsafe or that constitutes a fire or health hazard, insanitary condition, or is otherwise dangerous to human life is hereby declared unsafe. Any use of plumbing regulated by this code constituting a hazard to safety, health or public welfare by

reason of inadequate maintenance, dilapidation, obsolescence, fire hazard, disaster, damage or abandonment is hereby declared an unsafe use. Any such unsafe equipment is hereby declared to be a public nuisance and shall be abated by repair, rehabilitation, demolition or removal.

~~[A] 108.7.1 Authority to condemn equipment.~~

~~Where the code official determines that any plumbing, or portion thereof, regulated by this code has become hazardous to life, health or property or has become insanitary, the code official shall order in writing that such plumbing either be removed or restored to a safe or sanitary condition. A time limit for compliance with such order shall be specified in the written notice. A person shall not use or maintain defective plumbing after receiving such notice. Where such plumbing is to be disconnected, written notice as prescribed in Section 108.2 shall be given. In cases of immediate danger to life or property, such disconnection shall be made immediately without such notice.~~

~~[A] 108.7.2 Authority to disconnect service utilities.~~

~~The code official shall have the authority to authorize disconnection of utility service to the building, structure or system regulated by the technical codes in case of an emergency, where necessary, to eliminate an immediate danger to life or property. Where possible, the owner or the owner's authorized agent and occupant of the building, structure or service system shall be notified of the decision to disconnect utility service prior to taking such action. If not notified prior to disconnecting, the owner, the owner's authorized agent or occupant of the building, structure or service systems shall be notified in writing, as soon as practical thereafter.~~

~~[A] 108.7.3 Connection after order to disconnect.~~

~~A person shall not make connections from any energy, fuel, power supply or water distribution system or supply energy fuel or water to any equipment regulated by this code that has been disconnected or ordered to be disconnected by the code official or the use of which has been ordered to be discontinued by the code official until the code official authorizes the reconnection and use of such equipment.~~

~~Where any plumbing is maintained in violation of this code, and in violation of any notice issued pursuant to the provisions of this section, the code official shall institute any appropriate action to prevent, restrain, correct or abate the violation.~~

SECTION 109 MEANS OF APPEAL- Reserved.

~~[A] 109.1 Application for appeal.~~

~~Any person shall have the right to appeal a decision of the code official to the board of appeals. An application for appeal shall be based on a claim that the true intent of this code or the rules legally adopted thereunder have been incorrectly interpreted, the provisions of this code do not fully apply, or an equally good or better form of construction is proposed. The application shall be filed on a form obtained from the code official within 20 days after the notice was served.~~

~~[A] 109.2 Membership of board.~~

~~The board of appeals shall consist of five members appointed by the chief appointing authority as follows: one for 5 years, one for 4 years, one for 3 years, one for 2 years and one for 1 year. Thereafter, each new member shall serve for 5 years or until a successor has been appointed.~~

~~[A] 109.2.1 Qualifications.~~

~~The board of appeals shall consist of five individuals, one from each of the following professions or disciplines:~~

- ~~1. Registered design professional who is a registered architect; or a builder or superintendent of building construction with not less than 10 years' experience, 5 years of which shall have been in responsible charge of work.~~
- ~~2. Registered design professional with structural engineering or architectural experience.~~
- ~~3. Registered design professional with mechanical and plumbing engineering experience; or a mechanical and plumbing contractor with not less than 10 years' experience, 5 years of which shall have been in responsible charge of work.~~
- ~~4. Registered design professional with electrical engineering experience; or an electrical contractor with not less than 10 years' experience, 5 years of which shall have been in responsible charge of work.~~
- ~~5. Registered design professional with fire protection engineering experience; or a fire protection contractor with not less than 10 years' experience, 5 years of which shall have been in responsible charge of work.~~

~~[A] 109.2.2 Alternative members.~~

~~The chief appointing authority shall appoint two alternate members who shall be called by the board chairman to hear appeals during the absence or disqualification of a member. Alternate members shall possess the qualifications required for board membership, and shall be appointed for 5 years or until a successor has been appointed.~~

~~[A] 109.2.3 Chairman.~~

~~The board shall annually select one of its members to serve as chairman.~~

~~[A] 109.2.4 Disqualification of member.~~

~~A member shall not hear an appeal in which that member has any personal, professional or financial interest.~~

~~[A] 109.2.5 Secretary.~~

~~The chief administrative officer shall designate a qualified clerk to serve as secretary to the board. The secretary shall file a detailed record of all proceedings in the office of the chief administrative officer.~~

~~[A] 109.2.6 Compensation of members.~~

~~Compensation of members shall be determined by law.~~

~~[A] 109.3 Notice of meeting.~~

~~The board shall meet upon notice from the chairman, within 10 days of the filing of an appeal or at stated periodic meetings.~~

~~[A] 109.4 Open hearing.~~

~~Hearings before the board shall be open to the public. The appellant, the appellant's representative, the code official and any person whose interests are affected shall be given an opportunity to be heard.~~

~~[A] 109.4.1 Procedure.~~

~~The board shall adopt and make available to the public through the secretary procedures under which a hearing will be conducted. The procedures shall not require compliance with strict rules of evidence, but shall mandate that only relevant information be received.~~

~~[A] 109.5 Postponed hearing.~~

~~When five members are not present to hear an appeal, either the appellant or the appellant's representative shall have the right to request a postponement of the hearing.~~

~~[A] 109.6 Board decision.~~

~~The board shall modify or reverse the decision of the code official by a concurring vote of three members.~~

~~[A] 109.6.1 Resolution.~~

~~The decision of the board shall be by resolution. Certified copies shall be furnished to the appellant and to the code official.~~

~~[A] 109.6.2 Administration.~~

~~The code official shall take immediate action in accordance with the decision of the board.~~

~~[A] 109.7 Court review.~~

~~Any person, whether or not a previous party of the appeal, shall have the right to apply to the appropriate court for a writ of certiorari to correct errors of law," Application for review shall be made in the manner and time required by law following the filing of the decision in the office of the chief administrative officer.~~

SECTION 110 TEMPORARY EQUIPMENT, SYSTEMS AND USES – Reserved.

~~[A] 110.1 General.~~

~~The code official is authorized to issue a permit for temporary equipment, systems and uses. Such permits shall be limited as to time of service, but shall not be permitted for more than 180 days. The code official is authorized to grant extensions for demonstrated cause.~~

~~[A] 110.2 Conformance.~~

~~Temporary equipment, systems and uses shall conform to the structural strength, fire safety, means of egress, accessibility, light, ventilation and sanitary requirements of this code as necessary to ensure the public health, safety and general welfare.~~

~~[A] 110.3 Temporary utilities.~~

~~The code official is authorized to give permission to temporarily supply utilities before an installation has been fully completed and the final certificate of completion has been issued. The part covered by the temporary certificate shall comply with the requirements specified for temporary lighting, heat or power in the code.~~

~~[A] 110.4 Termination of approval.~~

~~The code official is authorized to terminate such permit for temporary equipment, systems or uses and to order the temporary equipment, systems or uses to be discontinued.~~

Reasons:

The deleted provisions are contained in the Phoenix Building Construction Code, 2018 IBC-Administrative Provisions. These provisions may conflict with the adopted administrative code and retaining them is redundant.

Approved in previous 2012 Code Adoption process:		<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
Cost Impact: No cost impact.			
ACTION TAKEN:			
2018 Code Committee		Date: December 19, 2017	
<input checked="" type="checkbox"/> Approved as submitted	<input type="checkbox"/> Modified and approved	<input type="checkbox"/> Denied	<input type="checkbox"/> No action taken
Development Advisory Board (DAB) Technical Subcommittee		Date: March 8, 2018	
<input checked="" type="checkbox"/> Approved as submitted	<input type="checkbox"/> Modified and approved	<input type="checkbox"/> Denied	<input type="checkbox"/> No action taken
Development Advisory Board (DAB)		Date: March 15, 2018	
<input checked="" type="checkbox"/> Approved as submitted	<input type="checkbox"/> Modified and approved	<input type="checkbox"/> Denied	<input type="checkbox"/> No action taken
Downtown, Aviation, Economy, and Innovation Subcommittee		Date: May 2, 2018	
<input checked="" type="checkbox"/> Approved as submitted	<input type="checkbox"/> Modified and approved	<input type="checkbox"/> Denied	<input type="checkbox"/> No action taken
City Council Action		Date: June 6, 2018	
<input checked="" type="checkbox"/> Approved as submitted	<input type="checkbox"/> Modified and approved	<input type="checkbox"/> Denied	<input type="checkbox"/> No action taken

Adopted by City of Phoenix Ordinance G-6463 effective July 6, 2018



City of Phoenix

PLANNING & DEVELOPMENT DEPARTMENT

PHOENIX BUILDING CONSTRUCTION CODE

Amendment to 2018 International Plumbing Code (IPC) Section 202

Submitted by: 2018 International Plumbing Code Committee

202 GENERAL DEFINITIONS

GREASE INTERCEPTOR

Gravity. Plumbing appurtenances of not less than 500 gallons (1893 L) capacity that are installed in the sanitary drainage system to intercept free-floating fats, oils and grease from waste water discharge. Separation is accomplished by gravity during a retention time of ~~not less than 30 minutes~~ approved by the Authority Having Jurisdiction.

Reasons:

City of Phoenix and surrounding cities use a minimum 12-minute retention time. The additional requirements establish construction parameters for interceptors.

Cost Impact: No cost impact.

Adopting a 30-minute retention time would increase the size of required grease interceptors, adding extra expense to the purchase and installation of gravity grease interceptors. The additional requirements are carried over from 2012 UPC.

Approved in previous 2012 Code Adoption process: YES NO

ACTION TAKEN:

2018 Code Committee Date: January 25, 2018

Approved as submitted Modified and approved Denied No action taken

Development Advisory Board (DAB) Technical Subcommittee Date: March 8, 2018

Approved as submitted Modified and approved Denied No action taken

Development Advisory Board (DAB) Date: March 15, 2018

Approved as submitted Modified and approved Denied No action taken

Downtown, Aviation, Economy, and Innovation Subcommittee Date: May 2, 2018

Approved as submitted Modified and approved Denied No action taken

City Council Action Date: June 6, 2018

Approved as submitted Modified and approved Denied No action taken

Adopted by City of Phoenix Ordinance G-6463 effective July 6, 2018



City of Phoenix

PLANNING & DEVELOPMENT DEPARTMENT

PHOENIX BUILDING CONSTRUCTION CODE

Amendment to 2018 International Plumbing Code (IPC) Section 202 (GRD)

Submitted by: 2018 International Plumbing Code Committee

202 GENERAL DEFINITIONS

GREASE REMOVAL DEVICE, AUTOMATIC (GRD). A plumbing appurtenance that is installed in the sanitary drainage system to intercept free-floating fats, oils and grease from waste water discharge. Such a device operates on a time-or event-controlled basis and has the ability to remove free-floating fats, oils and grease automatically without intervention from the use, except for maintenance. These devices must be able to perform as a gravity interceptor if mechanical or electrical power is lost, and provide continuous separation.

Reasons:

Grease removal devices rely on moving parts and electricity to separate grease from the waste stream; therefore, if moving parts break down or electrical power is lost the device will still be able to operate as a passive device and prevent grease from entering the sewer system.

Approved in previous 2012 Code Adoption process: **YES** **NO**

Cost Impact: No cost impact.

ACTION TAKEN:

2018 Code Committee	Date: December 19, 2017
<input checked="" type="checkbox"/> Approved as submitted <input type="checkbox"/> Modified and approved <input type="checkbox"/> Denied	<input type="checkbox"/> No action taken
Development Advisory Board (DAB) Technical Subcommittee	Date: March 8, 2018
<input checked="" type="checkbox"/> Approved as submitted <input type="checkbox"/> Modified and approved <input type="checkbox"/> Denied	<input type="checkbox"/> No action taken
Development Advisory Board (DAB)	Date: March 15, 2018
<input checked="" type="checkbox"/> Approved as submitted <input type="checkbox"/> Modified and approved <input type="checkbox"/> Denied	<input type="checkbox"/> No action taken
Downtown, Aviation, Economy, and Innovation Subcommittee	Date: May 2, 2018
<input checked="" type="checkbox"/> Approved as submitted <input type="checkbox"/> Modified and approved <input type="checkbox"/> Denied	<input type="checkbox"/> No action taken
City Council Action	Date: June 6, 2018
<input checked="" type="checkbox"/> Approved as submitted <input type="checkbox"/> Modified and approved <input type="checkbox"/> Denied	<input type="checkbox"/> No action taken

Adopted by City of Phoenix Ordinance G-6463 effective July 6, 2018



PHOENIX BUILDING CONSTRUCTION CODE

**Amendment to 2018 International Plumbing Code (IPC)
Section 312.10.2**

Submitted by: 2018 International Plumbing Code Committee

SECTION 312 TESTS AND INSPECTIONS

312.10.2 Testing.

Reduced pressure principle, double check, pressure vacuum breaker, reduced pressure detector fire protection, double check detector fire protection, and spill-resistant vacuum breaker backflow preventer assemblies and hose connection backflow preventers shall be tested at the time of installation, immediately after repairs or relocation and at least annually. ~~The testing procedure shall be performed in accordance with one of the following standards: ASSE 5013, ASSE 5015, ASSE 5020, ASSE 5047, ASSE 5048, ASSE 5052, ASSE 5056, CSA B64.10 or CSA B64.10.1.~~ Testing or maintenance shall be performed by a certified backflow assembly tester or repairer in accordance with ASSE Series 5000, or otherwise approved by the Authority Having Jurisdiction.

Reasons:

1. Allows the AHJ the ability to use the test procedures outlined in the most current edition of the USC Foundation for Cross-Connection Control and Hydraulic Research Manual of Cross-Connection Control, mandated by State Rule R18-4-215 and Phoenix City Code Chapter 37, Article XII. Backflow Prevention.
2. Mirrors identical requirements found in 2018 UPC Section 603.2 "Approval of Devices" or Assemblies.

Cost Impact: No cost impact.

Approved in previous 2012 Code Adoption process: YES NO

ACTION TAKEN:

2018 Code Committee Date: January 2, 2018
 Approved as submitted Modified and approved Denied No action taken

Development Advisory Board (DAB) Technical Subcommittee Date: March 8, 2018
 Approved as submitted Modified and approved Denied No action taken

Development Advisory Board (DAB) Date: March 15, 2018
 Approved as submitted Modified and approved Denied No action taken

Downtown, Aviation, Economy, and Innovation Subcommittee Date: May 2, 2018
 Approved as submitted Modified and approved Denied No action taken

City Council Action Date: June 6, 2018
 Approved as submitted Modified and approved Denied No action taken

Adopted by City of Phoenix Ordinance G-6463 effective July 6, 2018



PHOENIX BUILDING CONSTRUCTION CODE

**Amendment to 2018 International Plumbing Code (IPC)
Section: Table 403.1**

Submitted by: 2018 International Plumbing Code Committee

SECTION 403 MINIMUM PLUMBING FACILITIES

Delete all service sink requirements from Table 403.1 and footnote “e”.

Table 403.1
MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES^a
(See Sections 403.1.1 and 403.2)

- a. The fixtures shown are based on one fixture being the minimum required for the number of persons indicated or any fraction of the number of persons indicated. The number of occupants shall be determined by this code.
- b. Toilet facilities for employees shall be separate from facilities for inmates or care recipients.
- c. A single-occupant toilet room with one water closet and one lavatory serving not more than two adjacent patient sleeping units shall be permitted, provided that each patient sleeping unit has direct access to the toilet room and provisions for privacy for the toilet room user are provided.
- d. The occupant load for seasonal outdoor seating and entertainment areas shall be included when determining the minimum number of facilities required.
- ~~e. For business and mercantile occupancies with an occupant load of 15 or fewer, service sinks shall not be required.~~
- f. The required number and type of plumbing fixtures for outdoor swimming pools shall be in accordance with Section 609 of the International Swimming Pool and Spa Code.

Reasons:

These revisions are made to provide consistency between amended sections in the 2018 UPC, IPC and Table 2902.1 in the International Building Code.

Cost Impact:

Cost savings to building owner.

Approved in previous 2012 Code Adoption process: YES NO

ACTION TAKEN:

2018 Code Committee Date: January 9, 2018
 Approved as submitted Modified and approved Denied No action taken

Development Advisory Board (DAB) Technical Subcommittee Date: March 8, 2018
 Approved as submitted Modified and approved Denied No action taken

Development Advisory Board (DAB) Date: March 15, 2018
 Approved as submitted Modified and approved Denied No action taken

Downtown, Aviation, Economy, and Innovation Subcommittee Date: May 2, 2018
 Approved as submitted Modified and approved Denied No action taken

City Council Action Date: June 6, 2018
 Approved as submitted Modified and approved Denied No action taken

Adopted by City of Phoenix Ordinance G-6463 effective July 6, 2018



City of Phoenix

PLANNING & DEVELOPMENT DEPARTMENT

PHOENIX BUILDING CONSTRUCTION CODE

Amendment to 2018 International Plumbing Code (IPC) Section 403.2

Submitted by: 2018 International Plumbing Code Committee

403.2 Separate facilities.

Where plumbing fixtures are required, separate facilities shall be provided for each sex.

Exceptions:

1. Separate facilities shall not be required for dwelling units and sleeping units.
2. Separate facilities shall not be required in structures or tenant spaces with a total occupant load, including both employees and customers, of 15 or fewer.
3. Separate facilities shall not be required in mercantile *occupancies* in which the maximum occupant load is 50 ~~400~~ or fewer.
4. Separate facilities shall not be required in business *occupancies* in which the maximum occupant load is ~~25~~ 50 or fewer.

Reasons:

These revisions are made to provide consistency between the 2018 UPC section 422.2, 2012 IBC section 2902.2 and the 2018 IPC to allow for small business and mercantile occupancies to provide a single toilet facility for up to 50 occupants.

Cost Impact:

Cost savings for small mercantile and business occupancies.

Approved in previous 2012 Code Adoption process: **YES** **NO**

ACTION TAKEN:

2018 Code Committee	Date: January 9, 2018
<input checked="" type="checkbox"/> Approved as submitted <input type="checkbox"/> Modified and approved <input type="checkbox"/> Denied	<input type="checkbox"/> No action taken
Development Advisory Board (DAB) Technical Subcommittee	Date: March 8, 2018
<input checked="" type="checkbox"/> Approved as submitted <input type="checkbox"/> Modified and approved <input type="checkbox"/> Denied	<input type="checkbox"/> No action taken
Development Advisory Board (DAB)	Date: March 15, 2018
<input checked="" type="checkbox"/> Approved as submitted <input type="checkbox"/> Modified and approved <input type="checkbox"/> Denied	<input type="checkbox"/> No action taken
Downtown, Aviation, Economy, and Innovation Subcommittee	Date: May 2, 2018
<input checked="" type="checkbox"/> Approved as submitted <input type="checkbox"/> Modified and approved <input type="checkbox"/> Denied	<input type="checkbox"/> No action taken
City Council Action	Date: June 6, 2018
<input checked="" type="checkbox"/> Approved as submitted <input type="checkbox"/> Modified and approved <input type="checkbox"/> Denied	<input type="checkbox"/> No action taken

Adopted by City of Phoenix Ordinance G-6463 effective July 6, 2018



City of Phoenix

PLANNING & DEVELOPMENT DEPARTMENT

PHOENIX BUILDING CONSTRUCTION CODE

Amendment to 2018 International Plumbing Code (IPC) Section 410.2

Submitted by: 2018 International Plumbing Code Committee

410.2 Small occupancies.

Drinking fountains shall not be required for an occupant load of ~~45~~ 50 or fewer.

Reasons:

This revision is made to provide consistency between UPC, IPC and IBC.

Cost Impact:

Cost savings.

Approved in previous 2012 Code Adoption process: **YES** **NO**

ACTION TAKEN:

2018 Code Committee Date: January 16, 2018
 Approved as submitted Modified and approved Denied No action taken

Development Advisory Board (DAB) Technical Subcommittee Date: March 8, 2018
 Approved as submitted Modified and approved Denied No action taken

Development Advisory Board (DAB) Date: March 15, 2018
 Approved as submitted Modified and approved Denied No action taken

Downtown, Aviation, Economy, and Innovation Subcommittee Date: May 2, 2018
 Approved as submitted Modified and approved Denied No action taken

City Council Action Date: June 6, 2018
 Approved as submitted Modified and approved Denied No action taken

Adopted by City of Phoenix Ordinance G-6463 effective July 6, 2018



City of Phoenix

PLANNING & DEVELOPMENT DEPARTMENT

PHOENIX BUILDING CONSTRUCTION CODE

Amendment to 2018 International Plumbing Code (IPC) Section 424.2

Submitted by: 2018 International Plumbing Code Committee

424.2 Substitution for water closets.

~~In each bathroom or toilet room, urinals shall not be substituted for more than 67 percent of the required water closets in assembly and educational occupancies.~~ Urinals shall not be substituted for more than 50 percent of the required water closets in all other occupancies.

Reasons:

These revisions are made to provide consistency between the UPC and IPC and the minimum plumbing fixture table that is found in the 2018 International Building Code.

Cost Impact: No cost impact.

Approved in previous 2012 Code Adoption process: YES NO

ACTION TAKEN:

2018 Code Committee Date: January 16, 2018
 Approved as submitted Modified and approved Denied No action taken

Development Advisory Board (DAB) Technical Subcommittee Date: March 8, 2018
 Approved as submitted Modified and approved Denied No action taken

Development Advisory Board (DAB) Date: March 15, 2018
 Approved as submitted Modified and approved Denied No action taken

Downtown, Aviation, Economy, and Innovation Subcommittee Date: May 2, 2018
 Approved as submitted Modified and approved Denied No action taken

City Council Action Date: June 6, 2018
 Approved as submitted Modified and approved Denied No action taken

Adopted by City of Phoenix Ordinance G-6463 effective July 6, 2018



PHOENIX BUILDING CONSTRUCTION CODE

**Amendment to 2018 International Plumbing Code (IPC)
Section 608.7.2**

Submitted by: 2018 International Plumbing Code Committee

**SECTION 608
PROTECTION OF POTABLE WATER SUPPLY**

608.7 Cross connection control.

Cross connections shall be prohibited, except where *approved* backflow prevention assemblies, backflow prevention devices or other means or methods are installed to protect the potable water supply.

608.7.1 Private water supplies.

Cross connections between a private water supply and a potable public supply shall be prohibited.

608.7.2 Secondary backflow protection.

The following activities or facilities shall have a Secondary Reduced Pressure Principle Backflow Prevention assembly installed as close as practicable to each point of service delivery: Hospitals, surgical clinics, medical buildings, laboratories, morgues, mortuaries, veterinary hospitals, animal grooming shops, industrial occupancies, packing plants, slaughter houses, chemical plants, municipal waste treatment facilities, auxiliary water systems, construction water services or as otherwise listed in the most current edition of Phoenix City Code Chapter 37 ARTICLE XII. Backflow Prevention.

Note: Multiple water services which are interconnected onsite shall be provided with not less than a Double Check Valve Assembly at each service connection.

Reasons:

ADEQ, Maricopa County and City of Phoenix Water Department all require secondary protection for the services cited.

Cost Impact: No cost impact.

This amendment carries over from previous code cycles.

Approved in previous 2012 Code Adoption process: **YES** **NO**

ACTION TAKEN:

2018 Code Committee	Date: February 1, 2018
<input checked="" type="checkbox"/> Approved as submitted <input type="checkbox"/> Modified and approved <input type="checkbox"/> Denied	<input type="checkbox"/> No action taken

Development Advisory Board (DAB) Technical Subcommittee	Date: March 8, 2018
<input checked="" type="checkbox"/> Approved as submitted <input type="checkbox"/> Modified and approved <input type="checkbox"/> Denied	<input type="checkbox"/> No action taken

Development Advisory Board (DAB)	Date: March 15, 2018
<input checked="" type="checkbox"/> Approved as submitted <input type="checkbox"/> Modified and approved <input type="checkbox"/> Denied	<input type="checkbox"/> No action taken

Downtown, Aviation, Economy, and Innovation Subcommittee	Date: May 2, 2018
<input checked="" type="checkbox"/> Approved as submitted <input type="checkbox"/> Modified and approved <input type="checkbox"/> Denied	<input type="checkbox"/> No action taken

City Council Action	Date: June 6, 2018
<input checked="" type="checkbox"/> Approved as submitted <input type="checkbox"/> Modified and approved <input type="checkbox"/> Denied	<input type="checkbox"/> No action taken

Adopted by City of Phoenix Ordinance G-6463 effective July 6, 2018



City of Phoenix

PLANNING & DEVELOPMENT DEPARTMENT

PHOENIX BUILDING CONSTRUCTION CODE

Amendment to 2018 International Plumbing Code (IPC) Section 608.8.1

Submitted by: 2018 International Plumbing Code Committee

608.8 Valves and outlets prohibited below grade.

Potable water outlets and combination stop-and-waste valves shall not be installed underground or below grade. A freeze-proof yard hydrant that drains the riser into the ground shall be considered as having a stop-and-waste valve below grade.

Exception: Freeze-proof yard hydrants that drain the riser into the ground shall be permitted to be installed, provided that the potable water supply to such hydrants is protected in accordance with ~~Section 613.13.2 or 613.13.5~~ ASSE 1057 Freeze Resistant Sanitary Yard Hydrant with Backflow Protection, and the hydrants and the piping from the backflow preventer to the hydrant are identified in accordance with Section 608.9.

608.8.1 Prohibited Locations.

Backflow prevention devices shall not be installed in pits, underground vaults, or submerged locations.

Reasons:

1. Phoenix City Code Chapter 37-144 (d) regarding backflow assembly accessibility and testing presents design constraints for adequate clearance and drainage in a proposed vault installation. Proposed vault dimensions typically restrict full accessibility to all parts of an assembly.
2. Eliminates the possibility of installing a backflow prevention assembly in a pit or vault.
3. Reflects installation drawings shown in City of Phoenix Standard Details P1351 through P1355.
4. Corresponds to manufacturer's installation instructions which restrict underground installations to AHJ approval.
5. Above ground installation assures that Fire Department personnel have visual access to fire line backflow prevention assembly shut off valves and verifies that the assembly OS&Y (outside stem & yoke) shut-off valves are open by presence of a rising stem.
6. Sections 613.13.2 and 613.13.5 referenced in 608.8 do not exist.

Cost Impact: No cost impact.

Approved in previous 2012 Code Adoption process: **YES** **NO**

ACTION TAKEN:

2018 Code Committee	Date: January 23, 2018
<input checked="" type="checkbox"/> Approved as submitted <input type="checkbox"/> Modified and approved <input type="checkbox"/> Denied	<input type="checkbox"/> No action taken

Development Advisory Board (DAB) Technical Subcommittee	Date: March 8, 2018
<input checked="" type="checkbox"/> Approved as submitted <input type="checkbox"/> Modified and approved <input type="checkbox"/> Denied	<input type="checkbox"/> No action taken

Development Advisory Board (DAB)	Date: March 15, 2018
<input checked="" type="checkbox"/> Approved as submitted <input type="checkbox"/> Modified and approved <input type="checkbox"/> Denied	<input type="checkbox"/> No action taken

Downtown, Aviation, Economy, and Innovation Subcommittee	Date: May 2, 2018
<input checked="" type="checkbox"/> Approved as submitted <input type="checkbox"/> Modified and approved <input type="checkbox"/> Denied	<input type="checkbox"/> No action taken

City Council Action	Date: June 6, 2018
<input checked="" type="checkbox"/> Approved as submitted <input type="checkbox"/> Modified and approved <input type="checkbox"/> Denied	<input type="checkbox"/> No action taken

Adopted by City of Phoenix Ordinance G-6463 effective July 6, 2018



PHOENIX BUILDING CONSTRUCTION CODE

**Amendment to 2018 International Plumbing Code (IPC)
Section 608.15.3**

Submitted by: 2018 International Plumbing Code Committee

608.15 Location of backflow preventers.

Access shall be provided to backflow preventers as specified by the manufacturer's instructions.

608.15.1 Outdoor enclosures for backflow prevention devices.

Outdoor enclosures for backflow prevention devices shall comply with ASSE 1060.

608.15.2 Protection of backflow preventers.

Backflow preventers shall not be located in areas subject to freezing except where they can be removed by means of unions or are protected from freezing by heat, insulation or both.

608.15.2.1 Relief port piping.

The termination of the piping from the relief port or air gap fitting of a backflow preventer shall discharge to an approved indirect waste receptor or to the outdoors where it will not cause damage or create a nuisance.

608.15.3 Access and clearance.

Access and clearance shall be provided for the required testing, maintenance, and repair. Access and clearance shall be in accordance with manufacturer's instructions, and not less than 12 inches between the lowest portion of the assembly and grade, floor, or platform. Elevated installations that exceed 5 feet above the floor or grade shall be provided with a platform capable of supporting a tester or maintenance person. Secondary backflow assemblies shall be installed above ground, as close as practicable to the point of service delivery. A minimum 3-foot (914 mm) clear space shall be maintained for testing, maintenance, and repair.

Reasons:

1. Inserts code language regarding elevated installations.
2. Clarifies that secondary backflow prevention assemblies shall be installed above ground.
3. Clarifies the minimum required clearance dimensions for secondary backflow prevention assemblies.
4. Coordinates with Phoenix Fire Code requirements for access to fire protection equipment.

Cost Impact: No cost impact.

Approved in previous 2012 Code Adoption process:		<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
ACTION TAKEN:			
2018 Code Committee		Date: January 23, 2018	
<input checked="" type="checkbox"/> Approved as submitted	<input type="checkbox"/> Modified and approved	<input type="checkbox"/> Denied	<input type="checkbox"/> No action taken
Development Advisory Board (DAB) Technical Subcommittee		Date: March 8, 2018	
<input checked="" type="checkbox"/> Approved as submitted	<input type="checkbox"/> Modified and approved	<input type="checkbox"/> Denied	<input type="checkbox"/> No action taken
Development Advisory Board (DAB)		Date: March 15, 2018	
<input checked="" type="checkbox"/> Approved as submitted	<input type="checkbox"/> Modified and approved	<input type="checkbox"/> Denied	<input type="checkbox"/> No action taken
Downtown, Aviation, Economy, and Innovation Subcommittee		Date: May 2, 2018	
<input checked="" type="checkbox"/> Approved as submitted	<input type="checkbox"/> Modified and approved	<input type="checkbox"/> Denied	<input type="checkbox"/> No action taken
City Council Action		Date: June 6, 2018	
<input checked="" type="checkbox"/> Approved as submitted	<input type="checkbox"/> Modified and approved	<input type="checkbox"/> Denied	<input type="checkbox"/> No action taken

Adopted by City of Phoenix Ordinance G-6463 effective July 6, 2018



**PHOENIX BUILDING CONSTRUCTION CODE
Amendment to 2018 International Plumbing Code (IPC)
Section 704.1**

Submitted by: 2018 International Plumbing Code Committee

704.1 Slope of horizontal drainage piping.

Horizontal drainage piping shall be installed in uniform alignment at uniform slopes. The slope of a horizontal drainage pipe shall be not less than that indicated in Table 704.1 except that where the drainage piping is upstream of a grease interceptor, the slope of the piping shall be not less than 1/4 inch per foot (2-percent slope).

**TABLE 704.1
SLOPE OF HORIZONTAL DRAINAGE PIPE**

SIZE (inches)	MINIMUM SLOPE (inch per foot)
2 1/2 or less	1/4 ^a
3 to 6	1/8 ^a
8 or larger	1/16 ^a

For SI: 1 inch = 25.4 mm, 1 inch per foot = 83.33 mm/m.

- a. Slopes for piping draining to a grease interceptor shall comply with Section 704.1.

Exception: The Authority Having Jurisdiction may approve a lesser slope for building sewers in lieu of a sewage ejector or pumping station when a registered engineer or architect certifies the building sewer design and its installation, and when the building owner agrees in writing under notary to accept the lesser slope. Certification of the building sewer shall meet the special inspection requirements of the Phoenix Building Construction Code.

Reasons:

This amendment adds the option of using a lesser slope for building sewers based on engineering calculations. The owner will be required to sign under notary that they have accepted the lesser slope. The registrant shall certify the design and final installation through special inspection.

Cost Impact:

This amendment will reduce the costs associated with the previous approval process for low slope sewer installations.

Approved in previous 2012 Code Adoption process: YES NO

ACTION TAKEN:

2018 Code Committee Date: February 1, 2018
 Approved as submitted Modified and approved Denied No action taken

Development Advisory Board (DAB) Technical Subcommittee Date: March 8, 2018
 Approved as submitted Modified and approved Denied No action taken

Development Advisory Board (DAB) Date: March 15, 2018
 Approved as submitted Modified and approved Denied No action taken

Downtown, Aviation, Economy, and Innovation Subcommittee Date: May 2, 2018
 Approved as submitted Modified and approved Denied No action taken

City Council Action Date: June 6, 2018
 Approved as submitted Modified and approved Denied No action taken

Adopted by City of Phoenix Ordinance G-6463 effective July 6, 2018



PHOENIX BUILDING CONSTRUCTION CODE

**Amendment to 2018 International Plumbing Code (IPC)
Section 716**

Submitted by: 2018 International Plumbing Code Committee

Delete Section 716 in its entirety.

~~SECTION 716 REPLACEMENT OF UNDERGROUND BUILDING SEWERS AND BUILDING DRAINS BY PIPE-BURSTING METHODS~~

~~716.1 General.~~

~~This section shall govern the replacement of existing *building sewer* and *building drain* piping by pipe-bursting methods.~~

~~716.2 Applicability.~~

~~The replacement of *building sewer* and *building drain* piping by pipe-bursting methods shall be limited to gravity drainage piping of sizes 6 inches (152 mm) and smaller. The replacement piping shall be of the same nominal size as the existing piping.~~

~~716.3 Pre-installation inspection.~~

~~The existing piping sections to be replaced shall be inspected internally by a recorded video camera survey. The survey shall include notations of the position of cleanouts and the depth of connections to the existing piping.~~

~~716.4 Pipe.~~

~~The replacement pipe shall be made of high-density polyethylene (HDPE) and shall have a standard dimension ratio (SDR) of 17. The pipe shall be in compliance with ASTM F714.~~

~~716.5 Pipe fittings.~~

~~Pipe fittings to be connected to the replacement pipe shall be made of high-density polyethylene (HDPE) and shall be in compliance with ASTM D2683.~~

~~716.6 Cleanouts.~~

~~Where the existing *building sewer* or *building drain* did not have cleanouts meeting the requirements of this code, cleanout fittings shall be installed as required by this code.~~

~~716.7 Post-installation inspection.~~

~~The completed replacement piping section shall be inspected internally by a recorded video camera survey. The video survey shall be reviewed and approved by the code official prior to pressure testing of the replacement piping system.~~

~~716.8 Pressure testing.~~

~~The replacement piping system as well as the connections to the replacement piping shall be tested in accordance with Section 312.~~

Reasons:

This section allows less than the minimum code required installation and inspection standards for drainage and sewer piping. It is not possible to verify slope, alignment, visual water test, connections to fittings, connections to existing pipe, clean bedding and backfill and compliance with manufacturer's installation instructions.

Cost Impact: No cost impact.

Approved in previous 2012 Code Adoption process: YES NO

ACTION TAKEN:

2018 Code Committee Date: February 1, 2018
 Approved as submitted Modified and approved Denied No action taken

Development Advisory Board (DAB) Technical Subcommittee Date: March 8, 2018
 Approved as submitted Modified and approved Denied No action taken

Development Advisory Board (DAB) Date: March 15, 2018
 Approved as submitted Modified and approved Denied No action taken

Downtown, Aviation, Economy, and Innovation Subcommittee Date: May 2, 2018
 Approved as submitted Modified and approved Denied No action taken

City Council Action Date: June 6, 2018
 Approved as submitted Modified and approved Denied No action taken

Adopted by City of Phoenix Ordinance G-6463 effective July 6, 2018



City of Phoenix

PLANNING & DEVELOPMENT DEPARTMENT

PHOENIX BUILDING CONSTRUCTION CODE

Amendment to 2018 International Plumbing Code (IPC) Section 803.1

Submitted by: 2018 International Plumbing Code Committee

803.1 Neutralizing device required for corrosive wastes.

Corrosive liquids, spent acids or other harmful chemicals that destroy or injure a drain, sewer, soil or waste pipe, or create noxious or toxic fumes or interfere with the sewage treatment processes shall not be discharged into the plumbing system without being thoroughly diluted, neutralized, or treated by passing through an approved dilution or neutralizing device. Such devices shall be automatically provided with a sufficient supply of diluting water or neutralizing medium so as to make the contents noninjurious before discharge into the drainage system. The nature of the corrosive or harmful waste and the method of its treatment or dilution shall be approved prior to installation.

Reasons:

Diluting chemical wastes is prohibited by the Clean Water Act, 40 CFR, 403.6 (d).

Cost Impact: No cost impact.

Approved in previous 2012 Code Adoption process: **YES** **NO**

ACTION TAKEN:

2018 Code Committee Date: January 25, 2018

Approved as submitted Modified and approved Denied No action taken

Development Advisory Board (DAB) Technical Subcommittee Date: March 8, 2018

Approved as submitted Modified and approved Denied No action taken

Development Advisory Board (DAB) Date: March 15, 2018

Approved as submitted Modified and approved Denied No action taken

Downtown, Aviation, Economy, and Innovation Subcommittee Date: May 2, 2018

Approved as submitted Modified and approved Denied No action taken

City Council Action Date: June 6, 2018

Approved as submitted Modified and approved Denied No action taken

Adopted by City of Phoenix Ordinance G-6463 effective July 6, 2018



City of Phoenix

PLANNING & DEVELOPMENT DEPARTMENT

PHOENIX BUILDING CONSTRUCTION CODE

Amendment to 2018 International Plumbing Code (IPC) Section 1003.2

Submitted by: 2018 International Plumbing Code Committee

1003.2 Approval.

The size, type and location of each interceptor and of each separator shall be designed and installed in accordance with the manufacturer's instructions and the requirements of ~~this section based on the anticipated conditions of use~~ the Authority Having Jurisdiction. Wastes that do not require treatment or separation shall not be discharged into any interceptor or separator.

Reasons:

Phoenix City Code Section 28-13 gives approval authority for all interceptors to the Director of Water Services. This code change is an administrative change to clarify approval authority for these devices in the International Plumbing Code.

Cost Impact: No cost impact.

This amendment is carried over from 2012 International Plumbing Code.

Approved in previous 2012 Code Adoption process: **YES** **NO**

ACTION TAKEN:

2018 Code Committee Date: January 25, 2018
 Approved as submitted Modified and approved Denied No action taken

Development Advisory Board (DAB) Technical Subcommittee Date: March 8, 2018
 Approved as submitted Modified and approved Denied No action taken

Development Advisory Board (DAB) Date: March 15, 2018
 Approved as submitted Modified and approved Denied No action taken

Downtown, Aviation, Economy, and Innovation Subcommittee Date: May 2, 2018
 Approved as submitted Modified and approved Denied No action taken

City Council Action Date: June 6, 2018
 Approved as submitted Modified and approved Denied No action taken

Adopted by City of Phoenix Ordinance G-6463 effective July 6, 2018



PHOENIX BUILDING CONSTRUCTION CODE

**Amendment to 2018 International Plumbing Code (IPC)
Section 1003.3.1**

Submitted by: 2018 International Plumbing Code Committee

1003.3.1 Grease interceptors and automatic grease removal devices required.
~~A grease interceptor or automatic grease removal device shall be required to receive the drainage from fixtures and equipment with grease laden waste located in food preparation areas, such as in restaurants, hotel kitchens, hospitals school kitchens, bars, factory cafeterias and clubs. Fixtures and equipment shall include, but are not limited to pot sinks, prerinse sinks; soup kettles or similar devices; wok stations; floor drains or sinks into which kettles are drained; automatic hood wash units, and dishwashers without prerinse sinks. Commercial dishwashers and food waste disposal units shall discharge to a gravity grease interceptor. Grease interceptors and automatic grease removal devices shall receive waste only from fixtures and equipment that allow fats, oils or grease to be discharged. Where lack of space or other constraints prevent the installation or replacement of a grease interceptor, one or more grease interceptors shall be permitted to be installed on or above the floor and upstream of an existing grease interceptor.~~

Reasons:
Automatic grease removal devices are not required or allowed as a standalone device by the City of Phoenix. Installing one or more grease interceptors upstream of an existing interceptor does not increase the flow capacity of the existing grease interceptor.

Cost Impact: No cost impact.
Portions carried over from 2012 IPC.

Approved in previous 2012 Code Adoption process: **YES** **NO**

ACTION TAKEN:

2018 Code Committee Date: January 25, 2018

Approved as submitted Modified and approved Denied No action taken

Development Advisory Board (DAB) Technical Subcommittee Date: March 8, 2018

Approved as submitted Modified and approved Denied No action taken

Development Advisory Board (DAB) Date: March 15, 2018

Approved as submitted Modified and approved Denied No action taken

Downtown, Aviation, Economy, and Innovation Subcommittee Date: May 2, 2018

Approved as submitted Modified and approved Denied No action taken

City Council Action Date: June 6, 2018

Approved as submitted Modified and approved Denied No action taken

Adopted by City of Phoenix Ordinance G-6463 effective July 6, 2018



PHOENIX BUILDING CONSTRUCTION CODE

**Amendment to 2018 International Plumbing Code (IPC)
Section 1003.3.2**

Submitted by: 2018 International Plumbing Code Committee

Delete Section 1003.3.2

~~**1003.3.2 Food waste disposers restriction.**~~

~~A food waste disposer shall not discharge to a grease interceptor.~~

Reasons:

Commercial food waste disposers are required to discharge to a gravity grease interceptor, per the City of Phoenix Amended Code 1003.3.1.

Cost Impact: No cost impact.
Preserves changes adopted in 2012 IPC.

Approved in previous 2012 Code Adoption process: **YES** **NO**

ACTION TAKEN:

2018 Code Committee Date: January 25, 2018

Approved as submitted Modified and approved Denied No action taken

Development Advisory Board (DAB) Technical Subcommittee Date: March 8, 2018

Approved as submitted Modified and approved Denied No action taken

Development Advisory Board (DAB) Date: March 15, 2018

Approved as submitted Modified and approved Denied No action taken

Downtown, Aviation, Economy, and Innovation Subcommittee Date: May 2, 2018

Approved as submitted Modified and approved Denied No action taken

City Council Action Date: June 6, 2018

Approved as submitted Modified and approved Denied No action taken

Adopted by City of Phoenix Ordinance G-6463 effective July 6, 2018



PHOENIX BUILDING CONSTRUCTION CODE

**Amendment to 2018 International Plumbing Code (IPC)
Section 1003.3.5**

Submitted by: 2018 International Plumbing Code Committee

1003.3.5 Hydromechanical grease interceptors, fats, oils and greases disposal systems and automatic grease removal devices.

Hydromechanical grease interceptors shall be sized in accordance with Section 1003.3.5.1. Fats, oils, and greases disposal systems and automatic grease removal devices shall be sized in accordance with ASME A112.14.3, ASME A112.14.4, ASME A112.14.6, CSA B481.3 or PDI G101. Hydromechanical grease interceptors; fats, oils, and greases disposal systems and automatic grease removal devices shall be designed and tested in accordance with ASME A112.14.3, ASME A112.14.4, CSA B481.1, PDI G101 or PDI G102. Hydromechanical grease interceptors; fats, oils, and greases disposal systems and automatic grease removal devices shall be installed in accordance with the manufacturer's instructions. Where manufacturer's instructions are not provided, hydromechanical grease interceptors; fats, oils, and greases disposal systems and automatic grease removal devices shall be installed, in compliance with the Authority Having Jurisdiction, ASME A112.14.3, ASME A112.14.4, ASME A112.14.6, CSA B481.3 or PDI G101.

Reasons:

To clarify hydromechanical grease interceptor sizing for the public and create consistency in sizing with Uniform Plumbing Code.

Cost Impact: No cost impact.

This requirement is an amendment carried forward from the 2012 Uniform Plumbing Code.

Approved in previous 2012 Code Adoption process: YES NO

ACTION TAKEN:

2018 Code Committee Date: January 30, 2018
 Approved as submitted Modified and approved Denied No action taken

Development Advisory Board (DAB) Technical Subcommittee Date: March 8, 2018
 Approved as submitted Modified and approved Denied No action taken

Development Advisory Board (DAB) Date: March 15, 2018
 Approved as submitted Modified and approved Denied No action taken

Downtown, Aviation, Economy, and Innovation Subcommittee Date: May 2, 2018
 Approved as submitted Modified and approved Denied No action taken

City Council Action Date: June 6, 2018
 Approved as submitted Modified and approved Denied No action taken

Adopted by City of Phoenix Ordinance G-6463 effective July 6, 2018



PHOENIX BUILDING CONSTRUCTION CODE
Amendment to 2018 International Plumbing Code (IPC)
Section: Table 1003.3.5.1

Submitted by: 2018 International Plumbing Code Committee

Amend existing table title, values and add an additional column for fixtures connected.

TABLE 1003.3.5.1
CAPACITY OF GREASE INTERCEPTORS

TOTAL FLOW-THROUGH	GREASE RETENTION
RATING (gpm)	CAPACITY (pounds)
4	8
6	12
7	14
9	18
10	20
12	24
14	28
15	30
18	36
20	40
25	50
35	70
50	100
75	150
100	200

TABLE 1003.3.5.1
HYDROMECHANICAL GREASE INTERCEPTOR SIZING BASED ON FIXTURE COUNT ^{ab}

<u>Maximum Number of Fixtures Connected</u>	Total Flow-Through Rating (gpm)	<u>Grease Retention Capacity Equal to or Greater Than (pounds)</u>
<u>1</u>	20	40
<u>2</u>	25	50
<u>3</u>	35	70
<u>4</u>	50	100

For SI Units: 1 gallon per minute = 3.785 L/m, 1 pound = 0.454 kg.

- a. For total flow-through ratings greater than 100 (gpm), ~~double the flow-through rating to determine the grease retention capacity (pounds)~~ 50 (gpm) shall be specially approved by the Authority Having Jurisdiction.
- b. For installations with more than (4) fixtures, The Authority Having Jurisdiction may permit the use of larger devices.

Reasons:

The purpose of amending this table is to provide the public with prescriptive sizing guidelines for hydromechanical grease interceptors.

Cost Impact: No cost impact.

This requirement is an amendment carried forward from the 2012 International Plumbing Code and will align with the 2018 Uniform Plumbing Code.

Approved in previous 2012 Code Adoption process: **YES** **NO**

ACTION TAKEN:

2018 Code Committee Date: February 1, 2018

Approved as submitted Modified and approved Denied No action taken

Development Advisory Board (DAB) Technical Subcommittee Date: March 8, 2018

Approved as submitted Modified and approved Denied No action taken

Development Advisory Board (DAB) Date: March 15, 2018

Approved as submitted Modified and approved Denied No action taken

Downtown, Aviation, Economy, and Innovation Subcommittee Date: May 2, 2018

Approved as submitted Modified and approved Denied No action taken

City Council Action Date: June 6, 2018

Approved as submitted Modified and approved Denied No action taken

Adopted by City of Phoenix Ordinance G-6463 effective July 6, 2018



City of Phoenix

PLANNING & DEVELOPMENT DEPARTMENT

PHOENIX BUILDING CONSTRUCTION CODE

Amendment to 2018 International Plumbing Code (IPC) Section 1003.3.5.3

Submitted by: 2018 International Plumbing Code Committee

1003.3.5 Hydromechanical grease interceptors, fats, oils and greases disposal systems and automatic grease removal devices.

1003.3.5.1 Grease interceptor capacity.

Grease interceptors shall have the grease retention capacity indicated in Table 1003.3.5.1 for the flow-through rates indicated.

1003.3.5.2 Rate of flow controls.

Grease interceptors shall be equipped with devices to control the rate of water flow so that the water flow does not exceed the rated flow. The flow-control device shall be vented and terminate not less than 6 inches (152 mm) above the flood rim level or be installed in accordance with the manufacturer's instructions.

1003.3.5.3 Interceptor maintenance.

A two-way cleanout shall be installed on the discharge side of all hydromechanical grease interceptors.

Reasons:

The purpose of this code section is to provide an entry point to clean the line downstream of the device and back to the device.

Cost Impact: Minimal cost impact.

To install additional piping for cleanouts. This requirement is an amendment carried forward from the 2012 Uniform and International Plumbing Code.

Approved in previous 2012 Code Adoption process: **YES** **NO**

ACTION TAKEN:

2018 Code Committee Date: January 30, 2018

Approved as submitted Modified and approved Denied No action taken

Development Advisory Board (DAB) Technical Subcommittee Date: March 8, 2018

Approved as submitted Modified and approved Denied No action taken

Development Advisory Board (DAB) Date: March 15, 2018

Approved as submitted Modified and approved Denied No action taken

Downtown, Aviation, Economy, and Innovation Subcommittee Date: May 2, 2018

Approved as submitted Modified and approved Denied No action taken

City Council Action Date: June 6, 2018

Approved as submitted Modified and approved Denied No action taken

Adopted by City of Phoenix Ordinance G-6463 effective July 6, 2018



PHOENIX BUILDING CONSTRUCTION CODE

**Amendment to 2018 International Plumbing Code (IPC)
Section 1003.3.7**

Submitted by: 2018 International Plumbing Code Committee

1003.3.7 Gravity grease interceptors and gravity grease interceptors with fats, oils, and greases disposal systems.

The required capacity of gravity grease interceptors and gravity grease interceptors with fats, oils, and greases disposal systems shall be determined by multiplying the peak drain flow into the interceptor in gallons per minute by a retention time of 30 minutes total DFU's x 3-gpm x 12-minute retention time with no food waste disposers or, total DFU's x 3-gpm x 17-minute retention time with food waste disposers. Gravity grease interceptors shall be designed and tested in accordance with IAPMO/ANSI Z1001. Gravity grease interceptors with fats, oils, and greases disposal systems shall be designed and tested in accordance with ASME A112.14.6 and IAPMO/ANSI Z1001. Gravity grease interceptors and gravity grease interceptors with fats, oils, and greases disposal systems shall be installed in accordance with manufacturer's instructions and the Authority Having Jurisdiction. Gravity grease interceptors shall comply with the requirements of Chapter 10 or shall be designed by a registered professional engineer and approved by the Authority Having Jurisdiction. 500 gallon interceptors shall have a minimum of two compartments and two man-ways. Interceptors 750 gallons and above shall have a minimum of two compartments and three man-ways. All man-ways shall have a minimum 20" inside diameter. The grade rings (risers) of gravity grease interceptors shall be grouted with shrink proof grout. Gravity grease interceptors shall be installed outside unless otherwise approved by the Authority Having Jurisdiction. Where manufacturer's instructions are not provided, gravity grease interceptors and gravity grease interceptors with fats, oils, and greases disposal systems shall be installed in compliance with the Authority Having Jurisdiction-ASME A 112.14.6 AND IAMPPO/ANSI Z1001.

Example: Take the total DFU's going to grease waste, multiply by three (3) gallons per minute (GPM), multiply by a 12-minute detention time and this will give the interceptor size in gallons. If there is a disposal, use a 17-minute detention time.

Reasons:

To clarify retention time, construction, and gravity grease interceptor sizing for the public and to align with UPC. Gravity interceptors are generally installed outside to prevent sewer gases and odors from entering the building.

Cost Impact: No cost impact.

This requirement is an amendment carried forward from the 2012 Uniform Plumbing Code.

Approved in previous 2012 Code Adoption process: YES NO

ACTION TAKEN:

2018 Code Committee Date: February 1, 2018
 Approved as submitted Modified and approved Denied No action taken

Development Advisory Board (DAB) Technical Subcommittee Date: March 8, 2018
 Approved as submitted Modified and approved Denied No action taken

Development Advisory Board (DAB) Date: March 15, 2018
 Approved as submitted Modified and approved Denied No action taken

Downtown, Aviation, Economy, and Innovation Subcommittee Date: May 2, 2018
 Approved as submitted Modified and approved Denied No action taken

City Council Action Date: June 6, 2018
 Approved as submitted Modified and approved Denied No action taken

Adopted by City of Phoenix Ordinance G-6463 effective July 6, 2018



PHOENIX BUILDING CONSTRUCTION CODE

**Amendment to 2018 International Plumbing Code (IPC)
Section 1106.1**

Submitted by: 2018 International Plumbing Code Committee

SECTION 1106 SIZE OF CONDUCTORS, LEADERS AND STORM DRAINS

1106.1 General.

The size of the vertical conductors and leaders, building *storm drains*, building *storm sewers*, and any horizontal branches of such drains or *sewers* shall be based on an hourly rainfall rate of three (3) inches per hour, ~~the 100-year hourly rainfall rate indicated in Figure 1106.1 or on other rainfall rates determined from approved local weather data.~~

Reasons:

The 2018 UPC and the 2018 IPC list rainfall rates for Phoenix as 2.2 and 2.5 inches per hour, respectively. It is recommended that a rainfall rate of three (3) inches per hour be used to remain consistent with previous amendments and for ease of using the sizing tables.

Cost Impact: No cost impact.

Approved in previous 2012 Code Adoption process: **YES** **NO**

ACTION TAKEN:

2018 Code Committee	Date: February 6, 2018
<input checked="" type="checkbox"/> Approved as submitted <input type="checkbox"/> Modified and approved <input type="checkbox"/> Denied	<input type="checkbox"/> No action taken
Development Advisory Board (DAB) Technical Subcommittee	Date: March 8, 2018
<input checked="" type="checkbox"/> Approved as submitted <input type="checkbox"/> Modified and approved <input type="checkbox"/> Denied	<input type="checkbox"/> No action taken
Development Advisory Board (DAB)	Date: March 15, 2018
<input checked="" type="checkbox"/> Approved as submitted <input type="checkbox"/> Modified and approved <input type="checkbox"/> Denied	<input type="checkbox"/> No action taken
Downtown, Aviation, Economy, and Innovation Subcommittee	Date: May 2, 2018
<input checked="" type="checkbox"/> Approved as submitted <input type="checkbox"/> Modified and approved <input type="checkbox"/> Denied	<input type="checkbox"/> No action taken
City Council Action	Date: June 6, 2018
<input checked="" type="checkbox"/> Approved as submitted <input type="checkbox"/> Modified and approved <input type="checkbox"/> Denied	<input type="checkbox"/> No action taken

Adopted by City of Phoenix Ordinance G-6463 effective July 6, 2018



City of Phoenix

PLANNING & DEVELOPMENT DEPARTMENT

PHOENIX BUILDING CONSTRUCTION CODE

Amendment to 2018 International Plumbing Code (IPC) Section 1109

Submitted by: 2018 International Plumbing Code Committee

Delete Section 1109 in its entirety.

~~SECTION 1109 – COMBINED SANITARY AND STORM PUBLIC SEWER~~

~~1109.1 General.~~

~~Where the *public sewer* is a combined system for both sanitary and storm water, the *storm sewer* shall be connected independently to the *public sewer*.~~

Reasons:

The city of Phoenix does not allow for combined sanitary and storm drainage systems. This type of combined system is under the jurisdiction of the city of Phoenix Water Services Department.

Cost Impact: No cost impact.

Approved in previous 2012 Code Adoption process: **YES** **NO**

ACTION TAKEN:

2018 Code Committee Date: February 6, 2018

Approved as submitted Modified and approved Denied No action taken

Development Advisory Board (DAB) Technical Subcommittee Date: March 8, 2018

Approved as submitted Modified and approved Denied No action taken

Development Advisory Board (DAB) Date: March 15, 2018

Approved as submitted Modified and approved Denied No action taken

Downtown, Aviation, Economy, and Innovation Subcommittee Date: May 2, 2018

Approved as submitted Modified and approved Denied No action taken

City Council Action Date: June 6, 2018

Approved as submitted Modified and approved Denied No action taken

Adopted by City of Phoenix Ordinance G-6463 effective July 6, 2018



City of Phoenix

PLANNING & DEVELOPMENT DEPARTMENT

PHOENIX BUILDING CONSTRUCTION CODE

Amendment to 2018 International Plumbing Code (IPC) Appendices

Submitted by: 2018 International Plumbing Code Committee

Adopt **Appendices C & E.**

Reasons:

Appendix "C" contains structural safety provisions that match those found in the IBC and the UPC. Appendix "E" provides two methods of water pipe sizing not provided in the body of the code.

Cost Impact: No cost impact.

Approved in previous 2012 Code Adoption process: **YES** **NO**

ACTION TAKEN:

2018 Code Committee	Date: February 6, 2018
<input checked="" type="checkbox"/> Approved as submitted <input type="checkbox"/> Modified and approved <input type="checkbox"/> Denied <input type="checkbox"/> No action taken	
Development Advisory Board (DAB) Technical Subcommittee	Date: March 8, 2018
<input checked="" type="checkbox"/> Approved as submitted <input type="checkbox"/> Modified and approved <input type="checkbox"/> Denied <input type="checkbox"/> No action taken	
Development Advisory Board (DAB)	Date: March 15, 2018
<input checked="" type="checkbox"/> Approved as submitted <input type="checkbox"/> Modified and approved <input type="checkbox"/> Denied <input type="checkbox"/> No action taken	
Downtown, Aviation, Economy, and Innovation Subcommittee	Date: May 2, 2018
<input checked="" type="checkbox"/> Approved as submitted <input type="checkbox"/> Modified and approved <input type="checkbox"/> Denied <input type="checkbox"/> No action taken	
City Council Action	Date: June 6, 2018
<input checked="" type="checkbox"/> Approved as submitted <input type="checkbox"/> Modified and approved <input type="checkbox"/> Denied <input type="checkbox"/> No action taken	

Adopted by City of Phoenix Ordinance G-6463 effective July 6, 2018