Subject statement. Every three years the Building and Fire Codes of the City of Scottsdale are updated to account for the latest building technologies, standards and construction practices. The Building Safety and Fire departments wish to update the Building and Fire Codes to the latest edition of the following codes with an effective date of January 1, 2017:


a. the International Building Code, 2015 Edition, including appendices G, I and J, as published by the International Code Council, Inc., and as amended by the “2016 City of Scottsdale Building Codes and Amendments,” declared public records by Resolution No. 10597 of the City of Scottsdale, are hereby referred to, adopted, and made a part hereof as if fully set out in this Ordinance.


10600 of the City of Scottsdale, as amended by the “2016 City of Scottsdale Building Codes and Amendments,” are hereby referred to, adopted, and made a part hereof as if fully set out in this Ordinance.

d. The International Mechanical Code, 2015 Edition, as published by the International Code Council, Inc., declared to be a public record by Resolution No. 10601 of the City of 10601 of the City of Scottsdale, as amended by the “2016 City of Scottsdale Building Codes and Amendments,” are hereby referred to, adopted, and made a part hereof as if fully set out in this Ordinance.

e. The National Electrical Code, 2014 Edition, as published by the National Fire Protection Agency, declared a public record by Resolution No. 10602 of the City of Scottsdale, as amended by the “2016 City of Scottsdale Building Codes and Amendments,” are hereby referred to, adopted, and made a part hereof as if fully set out in this Ordinance.

f. The International Energy Conservation Code, 2015 Edition, as published by the International Code Council, Inc., declared to be a public record by Resolution No. 10603 of the City of Scottsdale, as amended by the “2016 City of Scottsdale Building Codes and Amendments,” are hereby referred to, adopted, and made a part hereof as if fully set out in this Ordinance.

g. The International Green Construction Code, 2015 Edition, as published by the International Code Council, Inc., declared a public record by Resolution No. 10604 of the City of Scottsdale, as amended by the “2016 City of Scottsdale Building Codes and Amendments,” are hereby referred to, adopted, and made a part hereof as if fully set out in this Ordinance.

h. The International Fuel Gas Code, 2015 Edition, as published by the International Code Council, Inc., and as amended by the “2016 City of Scottsdale Building Codes and Amendments,” declared public records by Resolution No. 10627 of the City of Scottsdale, are hereby referred to, adopted, and made a part hereof as if fully set out in this Ordinance.

i. The International Existing Building Code, 2015 Edition, as published by the International Code Council, Inc., declared to be a public record by Resolution No. 10628 of the City of Scottsdale is hereby referred to, adopted, and made a part hereof as if fully set out in this Ordinance.

j. The 2012 ICC Standard for Bleachers, Folding and Telescopic Seating, and Grandstands, as published by the International Code Council, Inc., declared a public record by Resolution No. 10629 of the City of Scottsdale is hereby referred to, adopted, and made a part hereof as if fully set out in this Ordinance.


l. The 2010 ADA Standards for Accessible Design,” declared a public record by Resolution No. 10631 of the City of Scottsdale, is hereby referred to, adopted, and made a part hereof as if fully set out in this Ordinance.
BACKGROUND

Zoning        Not Applicable

General Plan
Since incorporation, the City of Scottsdale has adopted the latest model building codes published by the International Conference of Building Officials (ICBO), now known as the International Code Council (ICC), as well as the National Electric code (NEC). The 2015 edition of the ICC codes and the 2014 NEC are the most current edition of these documents. Each edition is adopted with local amendments that address the climatic, environmental and community attributes of any given community.

On December 4, 2012, Scottsdale adopted the 2012 edition of the ICC codes and the 2011 NEC that are currently used in Scottsdale. The 2015 ICC codes and the 2014 NEC have already been adopted by other valley communities including Paradise Valley and Chandler. Other cities and towns are going through a similar process to adopt the 2015 edition of the ICC codes and the 2014 NEC.

This consideration will:
• update the city building codes to be consistent with industry standards and insure safety in all construction activities;
• update the fire codes to be consistent or exceed industry standards and insure safety in construction and the maintenance of life-safety systems in Scottsdale
• maintain the current favorable rating with the Insurance Services Office (ISO), which established criteria for setting insurance premiums;
• simplify residential information and documentation by reforming codes for clarity, ease of use, and address energy and water conservation.
This proposal will update the fire, building, residential, mechanical, plumbing, fuel gas, electric, energy, green building, and accessibility codes. The following summarizes the content of each code:

- The building code contains life-safety requirements for commercial design. It has provisions for structural design of concrete, steel, masonry, wood, etc. It has fire resistive and exiting requirements designed to protect the occupants, firefighters, and the structure.
- The fire code is coordinated closely with the building code and establishes regulations for fire prevention activities and fire protection systems. It addresses the hazards to life and property from fire, explosion, handling and use of materials. It regulates the continued safe use of buildings.
- The residential code contains all of the necessary code requirements for single-family homes. It includes structural, electrical, mechanical, energy and plumbing. Structural systems covered include wood, steel, masonry and concrete/foam composite designs.
- The plumbing code provides requirements for safe water distribution, water conservation and drainage of wastewater.
- The mechanical code provides requirements for heating, cooling and ventilation in commercial and multifamily buildings.
- The electrical code contains all the necessary requirements related to installing, altering, reconstructing or repairing electrical wiring on any building, structure, swimming pool, mechanical equipment or solar power generation system.
- The energy code contains requirements for the efficient use of energy including insulation, envelope tightness, heating/cooling distribution and lighting. It provides flexibility to permit the use of innovative approaches and techniques to achieve this objective.
- The green building code provides requirements for sustainable commercial and multifamily buildings including indoor environmental quality and material resources. It enhances the current residential green building program that has been an optional building choice in Scottsdale since 1998, and required for all city buildings.
- The fuel gas code addresses the design and installation of fuel gas systems and gas-fired appliances through requirements that emphasize safe operation and performance.
- The existing building code contains requirements intended to encourage the use and reuse of existing buildings. The scope covers repair, alteration, addition and change of occupancy for existing buildings and historic buildings, while achieving appropriate levels of safety without requiring full compliance with the new construction requirements.

Significant issues to be addressed.
This is an update of existing building codes. The basic requirements of Scottsdale’s existing codes are preserved, with improvements in the following significant areas:

1. The building code has new provisions for rooftop mounted photovoltaic solar panels. Modifications include an allowance for emergency egress through an elevator lobby when a secondary means of egress is provided. New definitions include cross-laminated timber and vegetative roofs.
2. The fire code provides more comprehensive provisions for decorative materials including details for healthcare occupancies. Carbon monoxide detection and alarm
provisions have been expanded. Smoke removal requirements have been revised and clarified.

3. The residential code adds leniency for ramps not serving door exits. Carbon monoxide alarms now require connection to the house wiring system with battery backup and must be installed in bedrooms that have a fuel-fired appliance. Revised lumber capacities have changed the span lengths for floor joists, ceiling joists and rafters. Solar planning provisions have been included to address future solar panel installations.

4. The plumbing code removes the requirement for public toilet facilities in occupancies that have limited areas of public access. Water temperature limiting devices are required for footbaths and head shampoo sinks. Fixtures such as water closets and urinals that utilize non-potable water must be identified with words and a symbol that non-potable water is being used. Water heater replacements will be allowed to have a drain pan without a drain line when one is unavailable. The efficiency and performance of plumbing fixtures has been improved to conserve water.

5. The mechanical code includes new provisions for ventilation systems in enclosed parking garages to operate continuously or be automatically controlled for intermittent operation utilizing both carbon monoxide and nitrogen dioxide detectors. New text recognizes the use of dryer exhaust duct power ventilators (DEDPV). New provisions for the design and construction of exhaust shafts that serve domestic kitchen exhaust systems in multi-story buildings.

6. The electric code has been updated for solar electric photovoltaic (PV) systems, low voltage suspended ceiling power, data centers, GFCI/AFCI protection, lighting load calculations, spa/hot tub wiring, conductor sizing, grounding electrode conductors, building disconnects, outside lighting/electric sign disconnects, DC power systems and emergency illumination.

7. The energy code simplifies and clarifies energy conservation measures related to insulation, air infiltration, solar heat gain, mechanical systems, water heating and lighting. In the residential provisions, the inclusion of the Energy Rating Index is provided as an alternative compliance path for builders wanting more flexibility. Lighting efficacy requirements have been updated to reflect market penetration of lighting technologies. In addition, a new chapter is added to address the special conditions of existing commercial and residential buildings.

8. The green building code has been updated for better usability and flexibility. Green measures have been clarified as related to site waste management, heat island mitigation, building material resources, renewable energy, commercial operations, mechanical systems, indoor environmental quality and commissioning.

9. The fuel gas code contains new safety requirements for the installation of connectors for commercial cooking appliances. New provisions recognize the use of dryer exhaust duct power ventilators (DEDPV) for installations that exceed the allowable exhaust duct length for clothes dryers

10. The existing building code contains new accessibility requirements for the addition of sleeping units and dwelling units. Requirements for occupancy changes in existing buildings have been clarified.

The adoption of these codes will improve the city's rating with the Insurance Services Office, ensuring the lowest premium rates for all property owners, residential and commercial, throughout the city.
Character Area Plan  Not Applicable

Context  Not Applicable

Adjacent Uses and Zoning  Not Applicable

Key Items for Consideration  Not Applicable

APPLICANTS PROPOSAL

Goal/Purpose of Request
This proposal will update the 2012 code editions to the 2015 code editions of the ICC code documents, and the 2011 electric code edition to the 2014 electric code edition.

Development Information  Not Applicable

IMPACT ANALYSIS

Land Use  Not Applicable

Traffic  Not Applicable

Parking  Not Applicable

Water/Sewer  Not Applicable

Public Safety  Not Applicable

School District Comments/Review  Not Applicable

Open Space  Not Applicable

Policy Implications  Not Applicable

Community Involvement - This ordinance was developed thru public meetings and input received from the Building Advisory Board of Appeals, Environmental Quality Advisory Board,
the Home Builders Association of Central Arizona, electric utilities, International Code Council (ICC) and construction industry at large.

**Community Impact** - The community will benefit from up-to-date safety and efficiency codes that account for current technologies, materials and building systems that will improve the community value and quality of life. The new codes help clarify code requirements and enhance safety where issues have been identified.

**OTHER BOARDS & COMMISSIONS**

The family of building codes are developed through the US-based International Code Council (ICC) and supported by the American Institute of Architects, the National Association of Home Builders, Building Owners and Managers Association, professional trade associations and building product and material manufacturers including structural, fire safety, electrical, energy, mechanical and plumbing systems. In addition, the energy codes are supported by Southwest Energy Efficiency Project, Residential Energy Services Network, the Energy and Environmental Building Association, local electric utility companies and the US Department of Energy.

The Scottsdale Building Advisory Board of Appeals (BABA) held several public meetings to discuss the adoption of the 2015 ICC codes and to receive comments from the public. At their June 16 meeting, the board unanimously recommended City Council adoption of the 2015 edition of the International Building Code and International Residential Code with associated amendments. At their October 27 meeting, the board unanimously recommended City Council adoption of the 2015 edition of the International Fire Code with associated amendments.


**Staff Recommendation to Planning** - Approve

**OPTIONS & STAFF RECOMMENDATION**

**Recommended Approach**
Adopt Resolutions 10597, 10598, 10599, 10600, 10601, 10602, 10603, 10604, 10627, 10628, 10629, 10630, 10631 and Ordinances 4283 and 4284 as submitted.

**Description of Option B**
The city would remain on the current codes and amendments, which will put us behind the building industry standards and may negatively affect our ISO insurance rating.

**Description of Option C**
The council could continue this item for additional information.

**Proposed Next Steps**
Adopt Resolutions 10597, 10598, 10599, 10600, 10601, 10602, 10603, 10604, 10627, 10628, 10629, 10630, 10631 and Ordinances 4283 and 4284 as submitted.

**RESPONSIBLE DEPARTMENT(S)**
Community and Economic Development

**STAFF CONTACTS (S)**
Michael L. Clack, Chief Development Director
480-312-7629 email: mclack@scottsdaleaz.gov

**APPROVED BY**
Michael L. Clack, Chief Development Director 480-312-7629, mclack@scottsdaleaz.gov

**ATTACHMENTS**
1. Resolution 10598 and Exhibit A - International Fire Code and City of Scottsdale Amendments
2. Ordinance 4283, Adopting Fire Code and Amendments
3. Resolution 10597 and Exhibit A - International Building Code and City of Scottsdale Amendments
5. Resolution 10600, International Plumbing Code
6. Resolution 10601, International Mechanical Code
7. Resolution 10602, National Electric Code
14. Resolution 10631, 2010 ADA Standards for Accessible Design
15. Ordinance 4284, Adopting Building Codes and Amendments
16. Memorandum from the Chair for the Environmental Quality Advisory Board
RESOLUTION NO. 10598


WHEREAS, the Fire Department of the City of Scottsdale wishes to amend the existing fire code with updated versions of the code, and to amend the International Fire Code to better address the needs of the City of Scottsdale; and

WHEREAS, State Law permits cities to declare documents a public record;

NOW, THEREFORE BE IT RESOLVED by the Council of the City of Scottsdale as follows:

Section 1. The following documents are hereby declared to be public records, and three copies are ordered to remain on file in the office of the City Clerk and kept available for public use and inspection:


(2) The "2016 City of Scottsdale Amendments to the 2015 International Fire Code" attached hereto as Exhibit A.

PASSED AND ADOPTED by the Council of the City of Scottsdale this 28th day of November, 2016.

ATTEST: CITY OF SCOTTSDALE, an Arizona municipal corporation

Carolyn Jagger, City Clerk

W. J. "Jim" Lane, Mayor

APPROVED AS TO FORM:
OFFICE OF THE CITY ATTORNEY

Bruce Washburn, City Attorney

By: Patricia J. Boomsm, Assistant City Attorney

14638782
Section 36-18.1 Adoption and Amendments.


(b) The text of the 2015 edition of the International Fire Code (2015 IFC), is amended only as shown in the following sections ("Scottsdale Amendments"). These Scottsdale Amendments include the addition of two Appendices: N and O. All other provisions remain as specified in the 2015 IFC.

(c) The 2015 edition of the International Fire Code (2015 IFC) and the Scottsdale Amendments shall be known as the "Fire Code of the City of Scottsdale."

CHAPTER 1
ADMINISTRATION

SECTION 101
GENERAL

101.1 Title is amended to read as follows:
These regulations shall be known as the Fire Code of the City of Scottsdale, hereinafter referred to in the IFC and Chapter 36 of the Scottsdale Revised Code as "this code."

101.2.1 Appendices is amended to read as follows:
Appendices B, C, D, E, F, G, H, I, J, K, M, N, and O are adopted as part of this code as follows:
1. Appendices N and O are adopted as additional City of Scottsdale appendices to the 2015 IFC
2. Appendices F, N, and O are adopted as regulatory and enforceable parts of this code.

SECTION 105
PERMITS

105.6.9 Compressed gases is amended to add the following Exception to the existing Exception in the 2015 IFC:
Carbon Dioxide (Inert and simple asphyxiant) shall require a permit for 200 cubic feet or more at NTP.

105.6.28 LP-gas is amended to read as follows:

105.6.28 LP-gas. An operational permit is required for:

1. Storage and use of LP-gas.
   Exception: A permit is not required for individual containers with a 10 gallon (37.85L) water capacity or less serving occupancies in Group R-3.

2. Operation of cargo tankers that transport LP-gas.

SECTION 108
BOARD OF APPEALS

108.1 Board of appeals established is amended to read as follows:

108.1 Board of appeals established. Reference to the "board" or "the board of appeals" in this code shall mean the Building Advisory Board of Appeals as established and referred to in Chapter 31, Article II of the Scottsdale Revised Code. The Board shall hear all appeals of orders, decisions or determinations made by the fire code official to apply and interpret this code. The board shall render all decisions and findings in writing to the appellant with a copy to the fire code official.

SECTION 109
VIOLATIONS

109.4 Violation Penalties is amended to read as follows:

109.4 Violation Penalties are provided in section 36-19 of the Scottsdale Revised Code.

109.4.1 Abatement of violation. In addition to the imposition of the penalties provided in SRC 36-19, the fire code official is authorized to institute appropriate action to prevent unlawful construction or to restrain, correct or abate a violation; or to prevent illegal occupancy of a structure or premises; or to stop an illegal act, conduct of business or occupancy of a structure on or about any premises.

SECTION 113
FEES

Subsection 113.2 Schedule of permit fees, is amended to read as follows.

113.2 Fee schedule.
(a) Fees shall be paid in accordance with the City Council adopted fee schedule for charges associated with permitting and inspections, special event staffing, CPR classes, copies of records and reports, and other services provided by the Fire Department.
(b) A schedule of fees is available at the Fire Department's administrative offices and on the City's website.
CHAPTER 2
DEFINITIONS

SECTION 202
GENERAL DEFINITIONS

(a) The following definitions are added to Section 202:

Access Challenged Residence. Single family homes with additional challenges including, but not limited to, access, or size, as determined by fire code official.

Big Box Single Family Residence (BB-SFR). Single family residences over 12,000 square foot in area

Landlord. Shall have the meanings given in Arizona Revised Statutes.

Multiple single-family. Attached single family dwellings not more than three (3) stories in height with a separate means of egress constructed under the International Residential Code (IRC).

NICET. National Institute for the Certification of Engineering Technologies, 1420 King Street, Alexander, VA. 22314-2915

OCCUPANCY CLASSIFICATION: The definition of “OCCUPANCY CLASSIFICATION” is amended by amending as follows only the specified existing occupancy classifications listed below:

(b) Institutional Group I-1 is amended to add the following to the list following the words “This group shall include, but not be limited to, the following”:

Congregate living facilities
Convalescent facilities

Facilities such as the above with five or fewer persons may be classified as Group R-3 or may comply with the International Residential Code in accordance with Section 101.2 of the International Building Code. A facility such as above, housing at least six and not more than 10 persons, may be classified as Group R-4. Occupancies providing care and accommodations for more than ten (10) occupants, excluding staff, shall be classified as Group I occupancy types.

The remaining portions of Institutional Group I-1 shall remain as in the 2015 IFC.

(c) Residential Group R is amended by substituting the following for Residential Group R-3.
Residential Group R-3. Residential occupancies where the occupants are primarily permanent in nature and not classified as R-1, R-2, R-4 or I, including:

- Adult care facilities that provide accommodations for 5 or fewer persons of any age for less than 24 hours
- Buildings that do not contain more than two dwelling units.
- Child care facilities that provide accommodations for 5 or fewer persons of any age for less than 24 hours
- Congregate living care facilities with 5 or fewer persons.

Care Facilities within a single family dwelling. Adult and child care facilities that are within a single-family home are permitted to comply with the International Residential Code.

(d) Residential Group R is amended by substituting the following for Residential Group R-4.

Residential Group R-4. Residential Group R-4 occupancies shall include buildings that do not contain more than two dwelling units, and are arranged for occupancy as residential care/assisted living facilities including more than five but not more than 10 occupants, excluding staff. This group shall include, but not be limited to, the following:

1. Adult care facilities that provide accommodations for more than five but not more than 10 occupants of any age for less than 24 hours.
2. Child care facilities that provide accommodations for more than five but not more than 10 occupants of any age for less than 24 hours.
3. Congregate living care facilities with 5 or fewer persons.
4. Adult and child care facilities that are within a single-family home are permitted to comply with the International Residential Code.

Group R-4 occupancies shall meet the requirements for construction as defined in the International Building Code for Group R-3, except as otherwise provided for in that code, or shall comply with the International Residential Code.

(e) The following definitions are added to Section 202:

Rental Agreement. Shall have the meanings given in Arizona Revised Statutes.
Sky Lantern. A device designed to carry an open flame as an airborne light. Also known by such names as Kongming lantern, wish lantern, sky candle, fire balloon.

Tenant. Shall have the meanings given in Arizona Revised Statutes.

Uniform traffic complaint. The form approved by the State Supreme Court in their “Rules of Procedure in Civil Traffic Violation cases”.

CHAPTER 3
GENERAL REQUIREMENTS

SECTION 308
OPEN FLAME

308.1.4 Open-flame cooking devices is amended to read as follows, including the addition of two new subsections, 308.1.4.1 and 308.1.4.2:

308.1.4 Open-flame devices. Charcoal burners, chimineas, barbecues fixed or portable, open flame heaters, firepots and other open-flame devices are prohibited on combustible balconies or within 10 feet (3048 mm) of combustible construction.

Exceptions:
1. One- and two-family dwellings.
2. When all of the following conditions are met:
   a. Where buildings, balconies and decks are non-combustible construction,
   b. Protected by an automatic sprinkler system,
   c. Device(s) is only fueled by natural gas and

308.1.4.1 Use of Liquefied-petroleum-gas-fueled cooking devices. No person shall use individual fixed or portable, LP-gas burners or barbecues on or under any attached covered patios, balconies, covered walkways, stairs, or roof overhangs and shall not be located within 10 feet (3048 mm) of combustible construction.

Exceptions: Detached one- and two-family dwellings.

308.1.4.2 Storage of open-flame cooking devices and barbecues. Storage of barbecues on or under balconies shall be allowed in accordance with the written city fire department Interpretation and Applications Manual.

Exception: If the fire department receives complaints or suspect the cooking device or barbecue is being used, the fire department will require the cooking device or barbecue to be removed from the premises.
308.1.6.3 Sky lanterns is amended to read as follows:
308.1.6.3 Sky lanterns. The lighting of, and the release of, sky lanterns is prohibited.

CHAPTER 4
EMERGENCY PLANNING AND PREPAREDNESS

SECTION 403
EMERGENCY PREPAREDNESS REQUIREMENTS

403.10 Group R Occupancies is amended by adding a new section 403.10.4:
403.10 Group R Occupancies. Group R Occupancies shall comply with Sections
403.10.1 through 403.10.4.

Add a new section 403.10.4 to read as follows:
403.10.4 Group R-3 group care home/assisted living facility. An approved fire
safety evacuation plan in accordance with section 404 shall be prepared and
maintained for Group R group care home/assisted living occupancies.

CHAPTER 5
FIRE SERVICE FEATURES

SECTION 503
FIRE APPARATUS ACCESS ROADS

503.1.1 Buildings and facilities is amended to read as follows:
503.1.1 Buildings and facilities. Approved fire apparatus access roads shall be
provided for every facility, building or portion of a building hereafter constructed or
moved into or within the jurisdiction. The fire apparatus access road shall comply
with the requirements of this section and shall extend to within 150 feet (45,720 mm)
of all portions of the facility and all portions of the exterior walls of the first story of
the building as measured by an approved route around the exterior of the building or
facility.

Exceptions:
1. The fire code official is authorized to increase the dimension of 150 feet (45
720 mm) where:
   1.1 The building is equipped throughout with an approved automatic
   sprinkler system installed in accordance with Section 903.3.1.1, 903.3.1.2 or 903.3.1.3 the access road may be extended to a
   maximum of 300 feet (91,440 mm).
1.2 Fire apparatus access roads cannot be installed because of location on property, topography, waterways, nonnegotiable grades or other similar conditions, and an approved alternative means of fire protection is provided.

1.3 There are not more than two single-family dwelling (Group R-3 or IRC) or Group U occupancies.

2. Where approved by the fire code official, fire apparatus access roads shall be permitted to be exempted or modified for solar photovoltaic power generation facilities.

503.2 Specifications is amended to read as follows:

503.2 Specifications. Fire apparatus access roads shall be installed and arranged in accordance with Sections 503.2.1 through 503.2.7 and the Scottsdale Design Standards and Policies Manual (DS&PM).

503.2.1 Dimensions is amended to read as follows, including the addition of subsection 503.2.1.1:

503.2.1 Dimensions. Fire apparatus access roads shall have an unobstructed width of not less than 24 feet (7315 mm) except for approved security gates in accordance with Section 503.6, and an unobstructed vertical clearance of not less than 13 feet 6 inches (4115 mm).

503.2.1.1 Temporary fire department access. Temporary fire department access roadway prior to and during construction of every facility, building or portion of a building shall install and maintain a roadway 16'-0" (4,877mm) wide, with minimum 0'-4" (101.6mm) thickness of aggregate base course or decomposed granite compacted to a 90% density where natural soil will not meet compaction requirements.

503.2.4 Turning radius is amended to read as follows:

503.2.4 Turning radius. The required turning radius of a fire apparatus access road shall be determined by the fire code official and the Scottsdale Design Standards and Policies Manual (DS&PM).

503.2.5 Dead ends is amended to read as follows:

503.2.5 Dead ends. Dead-end fire apparatus access roads in excess of 150 feet (45 720 mm) for non-fire sprinklered structures and 300 feet (91,440 mm) for fully sprinklered structures in length shall be provided with an approved area for turning around fire apparatus.

503.2.7 Grade is amended to read as follows:
503.2.7 Grade. The grade of the fire apparatus access road shall be within the limits established by the code official based on the fire department's apparatus and Scottsdale Design Standards and Policy Manual (DS&PM).

503.3 Marking is amended to read as follows:

503.3.1 Marking. Where required by the fire code official, approved signs or other approved notices shall be provided for fire apparatus access roads (fire lanes) to identify such roads or prohibit the obstruction thereof on public and private property. Signs or notices shall be maintained in a clean and legible condition at all times and shall be replaced or repaired when necessary to provide adequate visibility. All fire lanes shall be marked in the following manner:

1. Fire lane signs per City of Scottsdale standard detail, and / or
2. Curb, street or driveway painted red to indicate fire lane and labeled “FIRE LANE NO PARKING” in white block letters 3 inches (76.2mm) in height, 3/4 in. (19.5 mm) stroke, on the vertical face of the curb to indicate fire lane.
3. Lettering shall not be greater than 50'-0” (15.24m) apart and shall be posted at the beginning and end of the fire lane.

It shall be unlawful for any vehicle, equipment or device to park in or block the fire lane. Any vehicle, equipment or device found parked in or blocking a fire lane shall be cited by the police or the fire department.

503.4 Obstruction of fire apparatus access roads is amended to read as follows, including the amendments to 503.4.1 and the addition of a new subsection 503.4.2:

503.4.1 Obstruction of fire apparatus access roads. Fire apparatus access roads shall not be obstructed in any manner, including the parking of vehicles. The minimum widths and clearances established in Section 503.2.1 shall be maintained at all times.

503.4.1.1 Traffic calming devices. Traffic calming devices shall be prohibited unless approved by the fire code official.

503.4.2 Traffic control spikes. Traffic control spike or similar devices that immobilize a vehicle shall be prohibited.

503.6 Security gates is amended by adding the following subsections:

503.6.1 Key switch and sensor pre-emption location. A key switch and pre-emption sensor shall be required on all electric entry control gates. Key switch shall be installed in a location on the gate control panel that is readily visible and accessible. The pre-emption sensor shall be at or behind gate.

503.6.1.1 Single family residence. A key switch shall be installed in a location on the gate control panel that is readily visible and accessible. A pre-emption sensor is optional.
503.6.2 Manual gates. An approved dual padlock locking system shall be used on manual gates. An approved Fire Department Knox padlock shall be used on one side and the owners/management on the other.

503.6.3 Retro-fit of security gates. The installation of a key switch and pre-emption sensor shall be required on all existing electric entry controlled security gates across a fire apparatus access road. All gates shall be in compliance on or before July 1, 2014.

**EXCEPTION:** Single Family Residence: A pre-emption sensor is optional.

SECTION 505
PREMISES IDENTIFICATION

505.1 Address identification is replaced with new section 505.1 and 505.1.1 to read as follows:

**505.1 Address numbers.** New and existing buildings shall have approved address numbers, building numbers or approved building identification placed in a position that is plainly legible and visible from the street or road fronting the property. These numbers shall contrast with their background. Address numbers shall be Arabic numerals or alphabet letters. Address and building numbers for commercial properties shall be a minimum of 12 inches (305 mm) high with a minimum stroke width of 2.0 inch (51 mm). Units within a building shall be a minimum of 6 inches (152 mm) high with a minimum stroke width of 1.0 inch (25.4 mm). Individual unit or suite numbers shall be a minimum of 4 inches (102 mm) high with a minimum stroke width of 0.5 inch (12.7 mm). One and two family dwelling shall be a minimum of 4 inches (102 mm) high with a minimum stroke width of 0.5 inch (12.7 mm). Where access is by means of a private road and the building cannot be viewed from the public way, a monument, pole or other sign or means shall be used to identify the structure. Address numbers shall be maintained.

**505.1.1 Interior room numbers.** New and existing buildings shall have an approved room and suite numbers identification placed in positions that are plainly legible and visible. Numbers shall contrast with their background; interior suite and room numbers shall be Arabic numeral or alphabet letters. Interior room and suite numbers shall be a minimum of 1.25 (1 ¼) inches (31.75 mm) high with a brush stroke width of 0.25 (1/4) inches (6.35 mm).

SECTION 506
KEY BOXES

506.1 Where required is amended to read as follows:

**506.1 Where required.** A key box shall be required on all commercial structures that contain off-site monitored fire systems or where access to or within a structure or an area is restricted because of secured openings or where immediate access is
necessary for life-saving or fire-fighting purposes, the fire code official is authorized
to require a key box to be installed in an approved location. The key box shall be of
an approved type listed in accordance with UL 1037, and shall contain keys to gain
necessary access as required by the fire code official.

I. The first key box shall be installed at the main entrance of the structure.
Additional key boxes may be required based on the size, layout, and location of
fire sprinkler riser room. (Example: strip malls may have one centered on the
front and at the riser room; large office, warehouses and big box retail buildings
would have boxes at the main entry, rear or additional entry and the riser room.)

2. The key box shall be installed between 4'-0" (1.219 m) to 6'-0" (1.829 m)
above finished grade. The key box shall be immediately visible to fire personnel
from the emergency apparatus. Posts, fences, vehicles, vegetation, trash,
storage and other materials shall not be placed or kept near the key boxes in a
manner that would prevent the key boxes from being immediately discernible.

SECTION 507
FIRE PROTECTION WATER SUPPLIES

507.4 Water supply test is amended to read as follows:
507.4 Water supply test. Testing of water supply system shall comply with the
procedures in the Scottsdale DS&PM.

507.5.1 Where required, is amended by adding new subsections 507.5.1.2, Hydrant
spacing, and 507.5.1.3, Dead ends, to read as follows:
507.5.1.2 Hydrant spacing. Fire hydrants shall be spaced on fire apparatus access
roads as follows:

1. Commercial, multi-family (R-1 and R-2) and multiple single-family development
hydrant spacing will be a maximum of 700 feet (213,360mm) on center.

2. Non-hillside. One and two family dwellings (IRC and R-3) development hydrant
spacing will be a maximum of 1,200 feet (365,760mm) on center.

3. Hillside. One and two family dwellings (IRC and R-3) development hydrant
spacing will be a maximum of 600 feet (182,880mm) on center.

4. Hillside cul-de-sacs. The maximum distance shall not exceed three hundred
(300) feet (91,940mm) to any hydrant from the end of a cul-de-sac.

507.5.1.3 Dead ends. On cul-de-sacs in residential and commercial developments the
maximum distance to a hydrant shall not exceed one half (½) of the maximum allowable
distance between fire hydrants designated in 508.5.1 Exceptions.
Section 507.5 Fire hydrant systems is amended by adding new subsections 507.5.7 and 507.5.8, to read as follows:

**507.5.7. Fire hydrant color.** All fire hydrants shall have aboveground barrels painted with a primer coat plus two (2) coats of OSHA yellow paint.

507.5.7.1 Reclaimed water fire hydrant color. All fire hydrants using a reclaimed water supply shall have the caps and bonnet painted with a primer coat plus two (2) coats of purple paint. A placard shall be affixed to the hydrant in English and Spanish "DO NOT DRINK WATER."

507.5.8 Reflective markers. All fire protection equipment, fire department connections and hydrants shall be clearly identified by installation of reflective blue markers, and comply with the Scottsdale supplement to MAG Uniform Standard Specifications, standard detail 2363.

SECTION 508
FIRE COMMAND CENTER

508.1.1 Location and access is amended to read as follows:

508.1.1 Location and access. The fire command center shall be in a location that is easily identifiable and accessible from the main lobby of the building and provide quick access to the building tower stairways. The location and accessibility of the fire command center shall be approved by the fire chief.

508.1.3 Size is amended to read as follows:

508.1.3 Size. The fire command center shall be a minimum of 96 square feet (8.91 m²) in area with a minimum dimension of 8 feet (2438 mm).

CHAPTER 6
BUILDING SERVICES AND SYSTEMS

SECTION 607
ELEVATOR OPERATION, MAINTENANCE AND FIRE SERVICE KEYS

607.1 Emergency operation is amended by adding the following subsection:

607.1.1 Elevator car to accommodate ambulance stretcher. Where elevators are provided in buildings four or more stories above grade plane or four or more stories below grade plane, at least one elevator shall be provided for fire department emergency access to all floors. Elevators designated as emergency access shall be of such a size and arrangement to accommodate an ambulance stretcher 24 inches by 84 inches (610 mm by 2134 mm) with not less than 5-inch (127 mm) radius
corners, in the horizontal, open position and shall be identified by the international symbol for emergency medical services (star of life). The symbol shall not be less than 3 inches (76 mm) high and shall be placed inside on both sides of the hoist way door frame.

CHAPTER 9
FIRE PROTECTION SYSTEMS

SECTION 901
GENERAL

901.2 Construction documents is amended to read as follows:

901.2 Construction documents. The fire code official shall have the authority to require construction documents and calculations for all fire protection systems and to require permits be issued for the installation, rehabilitation or modification of any fire protection system. Construction documents for fire protection systems shall be submitted for review and approval prior to system installation.

901.2.1 Statement of compliance. Before requesting final approval of the installation, where required by the fire code official, the installing contractor shall furnish a written statement to the fire code official that the subject fire protection system has been installed in accordance with approved plans and has been tested in accordance with the manufacturer's specifications and the appropriate installation standard. Any deviations from the design standards shall be noted and copies of the approvals for such deviations shall be attached to the written statement.

901.2.2 Plan certification for fire alarm systems and occupant notification. All fire monitoring and occupant notification system plans submitted to the fire department for review and approval shall bear a qualified registrant's seal or review certification of a minimum level III in Fire Alarms Systems from the National Institute for the Certification of Engineering Technologies (NICET).

901.2.3 Plan certification for fire sprinkler systems. All fire sprinkler plans submitted to the fire department for review and approval shall bear a qualified registrant's seal or review certification of a minimum level III NICET in Water Based Systems Layout, (National Institute for the Certification of Engineering Technologies), in accordance with fire department Interpretation and Applications Manual.

901.2.4 Plan certification for all other fire protection systems. Plan certification for all other fire protection systems will be accompanied by a certification of competence when required.
901.2.5 On-site plans. Plans and specifications shall be submitted to the fire department for review and approval prior to construction. One set of fire department approved plans shall be on the job site for each inspection.

SECTION 903
AUTOMATIC SPRINKLER SYSTEMS

Section 903 is amended by repealing the existing provisions and substituting the following:

903.1 General. Automatic sprinkler systems shall comply with Section 36-18 of the Scottsdale Revised Code.

SECTION 905
STANDPIPE SYSTEMS

905.3.4 Stages is amended to read as follows, including the deletion of the Exception and subsection 905.3.4.1:

905.3.4 Stages. Stages greater than 1,000 square feet in area (93 m²) shall be equipped with a Class I wet standpipe system with 2.5 inch (64 mm) hose connections on each side of the stage supplied from the automatic fire sprinkler system and shall have a flow rate of not less than that required for class 1 standpipes.

Section 905 is amended by adding the following section 905.12 to read as follows:

905.12. Hose connections for access challenges. Buildings exceeding 10,000 square feet (929 m²) in area per story not otherwise required to be equipped with a standpipe system by section 905.3 of the 2015 IFC, shall be equipped with class I manual hose connections (2-1/2" NST) for fire department use as follows:

1) The locations shall be in accordance with Scottsdale Revised Code, NFPA 13, and 2015 IFC sec. 905.4, except item 1. 905.4, item 1 locations shall be at each floor-level landing, including grade level, within enclosed stairways, rather than located at intermediate floor level landings.

2) The hose connections are required when exterior ground floor walls exceed the required distance from fire apparatus access roads.

3) Single story structures are not required to have hose connections except in those interior portions of the building that exceed 200 feet (60.96 m) of travel from an emergency access road.

4) Where the most remote portion of a floor or story is more than 200 feet from a hose connection, additional hose connections are required.

5) The hose connections may be combined with the fire sprinkler system and
sized to deliver 250 gallons per minute at 100 psi from the most hydraulically remote outlet, using 150 psi fire department pump-in pressure. Calculations for hose demand shall be submitted with sprinkler plans.

SECTION 906
PORTABLE FIRE EXTINGUISHERS

Section 906.1 is amended by amending subpoint 1 to add R-3 Residential Care/Assisted Living Facilities; the remaining portions of Section 906.1 remain as in the I.F.C., including the Exception to subpoint 1 and subpoints 2 through 6:

906.1 Where required. Portable fire extinguishers shall be installed in all of the following locations:

1. In new and existing Group A, B, E, F, H, I, M, R-1, R-2, R-3 Residential Care/Assisted Living Facilities, R-4 and S occupancies

SECTION 907
FIRE ALARM AND DETECTION SYSTEMS

907.2 Where required—new buildings and structures is amended to read as follows and the Exceptions are deleted:

907.2 Where required—new buildings and structures. An approved manual, automatic or manual and automatic fire alarm system installed in accordance with the provisions of this code and NFPA 72 shall be provided in new buildings and structures in accordance with Sections 907.2.1 through 907.2.23 and fire department Interpretation and Applications Manual, and provide occupant notification in accordance with Section 907.5, unless other requirements are provided by another section of this code. Where automatic sprinkler protection installed in accordance with Section 903.3.1.1 or 903.3.1.2 is provided and connected to the building fire alarm system, automatic heat detection required by this section shall not be required.

The automatic fire detectors shall be smoke detectors. Where ambient conditions prohibit installation of automatic smoke detection, other automatic fire detection shall be allowed.

The subsections to Section 907.2, including 907.2.1 through 907.2.23 remain as written in the 2015 I.F.C.

Section 907.7 Acceptance tests and completion is amended by adding a new subsection 907.7.4 Activation, to read as follows:

907.7.4 Activation. Where an alarm notification system is required by another section of this code, it shall be activated by:

1. Required automatic fire alarm system.
2. Sprinkler water-flow devices.
a. Multi-level structures: All multilevel structures are required to have a flow switch and tampered control valve per floor. See fire department Interpretation and Applications Manual.

3. Required manual fire alarm boxes.

**SECTION 912**
**FIRE DEPARTMENT CONNECTIONS**

912.1 Installation is amended to read as follows:

912.1 Installation. Fire department connections shall be installed in accordance with the NFPA standard applicable to the system design and shall comply with Sections 912.2 through 912.7 and the City of Scottsdale fire department’s Interpretation and Applications Manual.

912.2 Location is amended by adding the following subsections 912.2.8 and 912.2.9:

912.2.8 Remote Fire Department Connections. Remote fire department connections shall be located within four (4) feet (1219.2mm) to eight (8) feet (2438.4mm) of the curb line of an access road or public street, or as otherwise specified. The fire department connection line shall be a wet line with the check valve at the hose connection above grade.

912.2.9 Wall mounted Fire Department Connections. Wall mounted fire department connections are permitted on systems not over ordinary hazard Group 2, when:

1. There are no glazed structural openings within 5 feet (1524mm) horizontally from inlet connection.
2. The structure is not classified as an “H” occupancy.
3. The fire department connection is within 50 feet of an approved roadway or driveway and arranged so that hose lines can be readily attached to the inlets without interference from any nearby objects including buildings, fences, post, plantings or other fire department connections

or as approved by the fire code official (See fire department Interpretation and Applications Manual).

**CHAPTER 10**
**MEANS OF EGRESS**

**SECTION 1004**
**OCCUPANT LOAD**

1004.3 Posting of occupant load is amended to read as follows:
1004.3 Posting of occupant load. Every room or space that is an assembly occupancy shall have the occupant load of the room or space posted in a conspicuous place, near the main exit or exit access doorway from the room or space. Posted signs shall be maintained by the owner or authorized agent. The number of people occupying the room shall not exceed the maximum occupant load as posted on the sign pursuant to Section 107.6 of the I.F.C. The sign shall be as approved by City of Scottsdale Fire & Building Department.

CHAPTER 11
CONSTRUCTION REQUIREMENTS FOR EXISTING BUILDINGS

SECTION 1103
FIRE SAFETY REQUIREMENTS FOR EXISTING BUILDINGS

1103.5 Sprinkler systems shall be amended by adding a new subsection 1103.5.5:

1103.5 Sprinkler systems. An automatic sprinkler system shall be provided in existing buildings in accordance with section 1103.5.1 through 1103.5.5.

Subsection 1103.5.5 Group R-4 is added to read as follows:

1103.5.5 Group R-4. An automatic sprinkler system shall be installed in accordance with section 903.2.7.

1103.7 Fire alarm systems is amended by adding a new subsection 1103.7.8 to read as follows:

1103.7.8 Remodeling and conversions. Group R-1, R-2 & R-3 occupancies without a sprinkler system, if remodeled, shall be equipped with smoke alarms in compliance with the Scottsdale Revised Code, Chapter 36.

Exception: If remodeling or conversion does not expose the building framing, smoke alarms may be battery-operated only with a long life lithium battery, or its equivalent, that is non-removable.

1103.8.1 Where required is amended by adding two new subsections 1103.8.1.1 and 1103.8.1.2 to read as follows:

1103.8.1.1 Owner landlord and occupant responsibilities. Devices provided and maintained. In a dwelling unit occupied under the terms of a rental agreement or under a month-to-month tenancy:

1. At the time of each occupancy the landlord shall provide smoke detection devices in working condition and, after written notification by the tenant, shall be responsible for replacement; and

2. The tenant shall keep the devices in working condition by keeping charged batteries in battery-operated devices, by testing the devices
periodically, and by refraining from permanently disabling the devices.

1103.8.1.2 Records and maintenance. The landlord or owner of any rental property shall inspect all smoke detection devices as required under NFPA 72 annually and a record of all inspections and maintenance activities shall be kept by the landlord or owner and available for inspection upon request by fire code official. See fire department Interpretation and Applications Manual.

CHAPTER 23
MOTOR FUEL-DISPENSING FACILITIES AND REPAIR GARAGES

SECTION 2301 GENERAL

2301.4 Indoor motor fuel-dispensing facilities is amended to read as follows:

2301.4 Indoor motor fuel-dispensing facilities. Motor fuel-dispensing facilities located inside buildings are prohibited.

Section 2301 is amended to add the following section 2301.7 to read as follows:

2301.7 Fire Protection. Fire sprinkler protection shall be designed in accordance with the building code as required for minimum Ordinary Group Hazard 2.

SECTION 2304
DISPENSING OPERATIONS

2304.3 Unattended self-service motor fuel-dispensing facilities is amended to read as follows:

2304.3 Unattended self-service motor fuel-dispensing facilities. Unattended self-service motor fuel-dispensing facilities are prohibited.

Exception: Unattended self-serve stations may be allowed by special permit by the fire code official for private commercial use only. Written request and documentation shall be submitted showing compliance with two (2) way communications and cameras that are monitored off site at a 24 hour location and shall comply with subsections 2304.3.1 through 2304.3.7 and all other applicable codes and ordinances.

Subsections 2304.3.1 through 2304.3.7 remain as written in the 2015 I.F.C.

SECTION 2306
FLAMMABLE AND COMBUSTIBLE LIQUID MOTOR FUEL-DISPENSING FACILITIES

2306.2.2 Above-ground tanks located inside buildings is amended to read as follows:
2306.2.2 Above-ground tanks located inside buildings. Above-ground tanks, located inside buildings and used for the storage of Class I, II and IIIA liquid fuels, are prohibited.

2306.2.3 Above-ground tanks located outside, above grade is amended to read as follows:

2306.2.3 Above-ground tanks located outside, above grade. Above-ground tanks, located outside of buildings and used for the storage of Class I, II or IIIA liquid motor fuels, are prohibited.

Exception: installation of 2000 gallons (7,570.8L) or less aggregate quantity may be approved by special permit by fire code official.

CHAPTER 31
TENT AND OTHER MEMBRANE STRUCTURES

3103.8.2 Location is amended to read as follows:

3103.8.2 Location. Tents or membrane structures shall not be located within 20 feet (6096 mm) of lot lines, buildings, other tents or membrane structures, parked vehicles or internal combustion engines. For the purpose of determining required distances, support ropes and guy wires shall be considered as part of the temporary membrane structure or tent.

Exception:
Membrane structures, tents need not be separated from buildings protected throughout with an automatic sprinkler system when all of the following conditions are met:

1. The aggregate floor area of the membrane structure, tent shall not exceed 10,000 square feet (929m²).

2. The aggregate floor area of the building and membrane structure, tent shall not exceed the allowable floor area including increases as indicated in the International Building Code.

3. Required means of egress provisions are provided for the building and the membrane structure, tent, including travel distance.

4. Fire apparatus access roads are provided in accordance with Section 503.

CHAPTER 33
FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION
SECTION 3308
OWNER'S RESPONSIBILITY FOR FIRE PROTECTION

3308.1 Program superintendent is amended to read as follows:

**3308.1 Program superintendent.** The owner shall designate a person to be, or the site superintendent shall be, the Fire Prevention Program Superintendent who shall be responsible for the fire prevention program and ensure that it is carried out through completion of the project. The fire prevention program superintendent shall have the authority to enforce the provisions of this chapter and other provisions as necessary to secure the intent of this chapter. Where guard service is provided, the superintendent shall be responsible for the guard service.

SECTION 3310
ACCESS FOR FIRE FIGHTING

3310.1 Required access is amended to read as follows:

**3310.1 Required access.** Approved vehicle access for fire fighting shall be provided to all construction or demolition sites. Vehicle access shall be provided to within 100 feet (30 480 mm) of temporary or permanent fire department connections. Vehicle access shall be provided by either temporary or permanent roads, capable of supporting vehicle loading under all weather conditions. Vehicle access shall be maintained until permanent fire apparatus access roads are available. All open trenches shall have steel plates capable of maintaining the integrity of the access road design when these trenches cross an access road. These access roads may be temporary or permanent. This policy applies only during construction and/or demolition. Permanent access per the fire code shall be in place prior to any final inspection or certificate of occupancy.

CHAPTER 53
COMPRESSED GASSES

SECTION 5307
CARBON DIOXIDE (CO₂) SYSTEMS USED IN BEVERAGE DISPENSING APPLICATIONS

Section 5307.5, Required protection, is amended to read as follows:

**5307.5 Required protection.** Where carbon dioxide storage tanks, cylinder, piping and equipment are located indoors, rooms, areas containing carbon dioxide storage tanks, cylinders, piping and fittings and other areas where a leak of carbon dioxide can collect shall be provided ventilation in accordance with Section 5307.5.1 and/or an emergency alarm system in accordance with Section 5307.5.2.

The remainder of Section 5307.5 remains as in the I.F.C., except as amended below.
Section 5307.5.2(2), Emergency alarm system, is amended to read as follows,

**5307.5.2 (2) Emergency alarm system.** The threshold for activation of an alarm shall not exceed 15,000 parts per million (27,000 mg/m³) for supervisory alarm and 30,000 parts per million (54,000 mg/m³) for alarm evacuation of facility.

Subsections 5307.5.2(1) and 5307.5.2(3) remain unchanged as in the I.F.C.

Section 5307.5.2 is amended by adding a new Section 5307.5.2.3 to read as follows:

**5307.5.2.3 Alarm monitoring and power supply.** Emergency alarm system shall be monitored and powered by the buildings alarm/monitoring system where an alarm notification system is required by another section of this code.

Exception: If no building alarm system exist or is required by another section of this code, a gas detection device or system shall have a 90 minute backup power supply.

**CHAPTER 57
FLAMMABLE AND COMBUSTIBLE LIQUIDS**

5704.2.9.5 Above-ground tanks inside of buildings is amended by adding the following new subsection:

**5704.2.9.5. Locations where above-ground tanks inside are prohibited.** Storage of Class I, II, and III liquids in above-ground tanks inside of buildings is prohibited.

5704.2.13.1.4 Tanks abandoned in place is amended to read as follows:

**5704.2.13.1.4 Tanks abandoned in place.** Tanks abandoned in place shall be prohibited within the entire city.

5706.2.4.4 Locations where above-ground tanks are prohibited is amended to read as follows:

**5706.2.4.4 Locations where above-ground tanks are prohibited.** The storage of Class I, II and III liquids in above ground tanks is prohibited.

Exception: Installations of 2000 gallons (7,570.8L) or less aggregate quantity may be approved by special permit by fire code official.

5706.2.5.2 Tanks for gravity discharge is amended to read as follows:

**5706.2.5.2 Tanks for gravity discharge.** Tanks with a connection in the bottom or the end for gravity-dispensing of flammable or combustible liquids shall be prohibited.

**CHAPTER 61
LIQUEFIED PETROLEUM GASES**
SECTION 6101
GENERAL

6101.2 Permits is amended to read as follows:

6101.2 Permits. Permits shall be required as set forth in Sections 105.6 and 105.7. A permit is required for all containers over 10 gallons (37.85L) water capacity.

Distributors shall not fill an LP-gas container for which a permit is required unless a permit for installation has been issued for that location by the fire code official.

SECTION 6104
LOCATION OF LP-GAS CONTAINERS

6104.3 Container location is hereby amended by substituting the following for footnote e to Table 6104.3:

e. The following shall apply to above-ground containers installed alongside buildings:

1. Containers of less than a 125-gallon water capacity are allowed next to the building they serve when in compliance with Items 2, 3 and 4.

2. Department of Transportation (DOT) specification containers shall be located and installed so that the discharge from the container pressure relief device is at least 3 feet horizontally from building openings below the level of such discharge and shall not be beneath buildings unless the space is well ventilated to the outside and is not enclosed for more than 50 percent of its perimeter. The discharge from container pressure relief devices shall be located not less than 5 feet from exterior sources of ignition, openings into direct-vent (sealed combustion system) appliances or mechanical ventilation air intakes.

3. ASME containers of less than a 125-gallon water capacity shall be located and installed such that the discharge from pressure relief devices shall not terminate in or beneath buildings and shall be located at least 5 feet horizontally from building openings below the level of such discharge and not less than 5 feet from exterior sources of ignition, openings into direct vent (sealed combustion system) appliances, or mechanical ventilation air intakes.

4. The filling connection and the vent from liquid-level gauges on either DOT or ASME containers filled at the point of installation shall not be less than 10 feet from exterior sources of ignition, openings into direct vent (sealed combustion system) appliances or mechanical ventilation air intakes.

5. A container less than 125 gallons (473.2L) may be located next to a block fence when the tank is not within 5 feet (1524mm) of a structure on adjoining property.
CHAPTER 80
REFERENCED STANDARDS

For purposes of this Fire Code, the applicable National Fire Protection Association (NFPA) referenced standards shall be those standards in effect on the date the 2015 edition of the International Fire Code was adopted by the City of Scottsdale.

APPENDIX N

Section N101
General

N101.1 Scope. The unrestricted use of grass-, grain-, brush- or forest-covered land in hazardous fire areas is a potential menace to life and property from fire and resulting erosion. Safeguards to prevent the occurrence of fire and provide adequate fire-protection facilities to control the spread of fire which might be caused by recreational, residential, commercial, industrial, or other activities conducted in hazardous fire areas shall be in accordance with Appendix N.

Section N102
Definitions

N102.1 Definitions. For the purpose of Appendix N, certain terms are defined as follows:

Tracer is any bullet or projectile incorporating a feature which marks or traces the flight of said bullet or projectile by flame, smoke or other means which result in fire or heat.

Tracer charge is any bullet or projectile incorporating a feature designed to create a visible or audible effect which result in fire or heat and shall include any incendiary bullets or projectiles.

Section N103
Permits

N103.1 Permits. Fire code official is authorized to stipulate conditions for permits. Permits shall not be issued when public safety would be at risk, as determined by fire code official.

Section N104
Restricted Entry
**N104.1 Restricted entry.** Fire code official shall determine and publicly announce when hazardous fire areas shall be closed to entry and when such areas shall again be opened to entry. Entry on and occupation of hazardous fire areas, except public roadways, inhabited areas or established trails and camps sites which have not been closed during such time when the hazardous fire is closed to entry, is prohibited.

**Exception:**
1. Residents and owners of private property within hazardous fire areas and their invitees and guests going to or being upon their land.
2. Entry, in the course of duty, by peace or police officer, and other duly authorized public officers, members of a fire department and members of the United States forest service.

**Section N105**
**Trespassing on Posted Property.**

**N105.1 General.** When fire code official determines that a specific area within a hazardous fire area presents an exceptional and continuing fire danger because of the density of natural growth, difficulty of terrain, proximity to structures or accessibility to public, such areas shall be closed until changed conditions warrant termination of closure. Such areas shall be posted as hereafter provided.

**N105.2 Signs.** Approved signs prohibiting entry by unauthorized persons and referring to Appendix H shall be placed on every closed area.

**N105.3 Trespassing.** Entering and remaining within areas closed and posted is prohibited.

**Exception:** Owners and occupiers of private or public property within closed and posted areas, their quest or invitees, and local state and federal public officers and their authorized agents acting in the course of duty.

**Section N106**
**Smoking**

**N106.1 General.** Lighting, igniting or otherwise setting fire to or smoking tobacco, cigarettes, pipes or cigars in hazardous fire areas is prohibited.

**Exception:** Places of habitation or within the boundaries of established smoking areas or campsites as designated by fire code official.

**Section N107**
**Spark Arresters**
N107.1 Spark arresters. Chimneys used in conjunction with fireplaces, barbecues, incinerators or heating appliances in which solid or liquid fuel is used, upon buildings, structures or premises located within 200 feet (60 960 mm) of hazardous fire areas, shall be provided with a spark arrester constructed with heavy wire mesh or other noncombustible material with openings not to exceed ½ inch (12.7mm).

Section N108
Tracer Bullets, Tracer Charges, Discharge of Firearms, Rockets and Model aircraft.

N108.1 General. Tracer bullets and tracer charges shall not be possessed, fired or caused to be fired into or across hazardous fire areas.

Firearms, rockets, model planes, gliders and balloons powered with an engine, propellant or other features liable to start or cause fire shall not be fired or projected into or across hazardous fire areas.

Section N109
Explosives and Blasting

N109.1 Explosives and blasting Explosives shall not be possessed, kept, stored, sold, offered for sale, given away, used, discharged, transported or disposed of within hazardous fire areas except by permit from fire code official.

Section N110
Fireworks

N110.1 Fireworks. Fireworks shall not be used or possessed in hazardous fire areas. Fire code official is authorized to seize, take, remove or cause to be removed fireworks in violation of section 10.

Section N111
Apiaries

N111.1 Apiaries. Lighted and smoldering material shall not be used in connection with smoking bees in or upon hazardous fire areas except by permit from fire code official.

Section K N112
Open-Flame Devices

N112.1 Open-flame devices. Welding torches, tar pots, decorative torches, sky lanterns and other devices, machines or processes liable to start or cause fire shall not be operated or used in or upon hazardous fire areas, except by permit from fire code official.
Exception: Use within habited premises or designated campsites which are a minimum of 30 feet (9144 mm) from grass, grain, brush, or forest-covered areas.

Flame-employing devices, such as lanterns or kerosene road flares, shall not be operated or used as a signal or marker in or upon hazardous fire areas.

Exception: The proper use of fuses at the scene of emergencies or as required by standard operating procedures.

Section N113
Outdoor Fires

N113.1 Outdoor fires. Outdoor fires shall not be built, ignited or maintained in or upon hazardous fire areas, except by permit from fire code official.

Exception: Outdoor fires within habited premises or designated campsites where such fires are built in a permanent barbecue, portable barbecue, outdoor fireplace, incinerator or grill and are a minimum of 30 feet (9144 mm) from a grass, grain, brush, or forest-covered area.

Permits shall incorporate such terms and conditions which will reasonably safeguard public safety and property. Outdoor fires shall not be built, ignited or maintained in or upon hazardous fire areas under the following conditions:

1. When high winds are blowing,
2. When a person age 17 or over is not present at all times to watch and tend fire, or:
3. When public announcement is made that open burning is prohibited.
4. Permanent barbecue, portable barbecues, outdoor fireplaces or grills shall not be used for the disposal of rubbish, trash or combustible waste material.

Section N114
Incinerators and Fireplaces

N114.1 General: Incinerators, outdoor fireplaces, permanent barbecues and grills shall not be built, installed or maintained in hazardous fire areas without prior approval of fire code official.

Incinerators, outdoor fireplaces, permanent barbecues and grills shall be maintained in good repair and in a safe condition at all times. Openings in such appliances shall be provided with an approved spark arrester, screen or door.

Exception: When approved, unprotected openings in barbecues and grills are necessary for proper function.
Section N115
Clearance of Brush and Vegetative Growth from Electrical Transmission Lines

N115.1 General. Clearance of brush and vegetative growth from electrical transmission lines shall be in accordance with Section 115.

Exception: Section 115 does not authorize persons not having legal right of entry to enter upon or damage the property of others without consent of the owner.

N115.2 Support clearance. Persons owning, controlling, operating or maintaining electrical transmission lines upon hazardous fire areas shall, at all times, maintain around and adjacent to poles supporting a switch, fuse, transformer, lightning arrester, line junction, dead end, corner pole, towers, or other poles or towers at which power company employees are likely to work most frequently an effective firebreak consisting of a clearing or not less than 10 feet (3048 mm) in each direction from the outer circumference of such pole of tower.

Exception: Lines used exclusively as telephone, telegraph, messenger call, alarm transmission or other lines classed as communication circuits by a public utility.

N115.3 High tension line clearance. Persons owning, controlling, operating or maintaining electrical transmission lines upon hazardous fire areas shall maintain the clearance specified in Section 115.3 in all directions between vegetation and conductors carrying electrical current:

1. For lines operating at 2,400 volts and less than 68,000 volts, 4 feet (1219 mm).
2. For lines operating at 68,000 volts and less than 110,000 volts, 6 feet (1829 mm).
3. For lines operating at 110,000 volts and over, 10 feet (3048 mm).

Such distance shall be sufficiently great to furnish the required clearance from the particular wire or conductor to positions of such wire or conductor at temperatures of 120 F (48.9 C) or less. Forked, dead, old, decadent and rotten trees; trees weakened by decay or disease; and trees leaning toward the line, which could contact the line from the side or fall on the line, shall be felled, cut or trimmed to remove the hazard.

N115.4 Self-supporting aerial cable. Line clearance is not required for self-supporting aerial cable, except that forked trees, leaning trees and other growth which could fall across the cable and break it shall be removed.

Section K N116
Clearance of Brush or Vegetation growth from Structures
N116.1 General. Persons owning, leasing, controlling, operating or maintaining buildings or structures in, upon or adjoining hazardous fire areas, and persons owning, leasing or controlling land adjacent to such buildings or structures, shall at all times:

1. Maintain an effective firebreak by removing and clearing away flammable vegetation and combustible growth from areas within 30 feet (9144 mm) of such buildings or structures;

   Exception: Single specimens of trees, ornamental shrubbery or similar plants used as ground covers, provided that they do not form a means of rapidly transmitting fire from the native growth to any structure.

2. Maintain additional fire protection or firebreak by removing brush, flammable vegetation and combustible growth located from areas within 30 feet to 100 feet (9144 mm to 30 480 mm) from such buildings or structures, when required by fire code official because of extra-hazardous conditions causing a firebreak of only 30 feet (9144 mm) to be insufficient to provide reasonable fire safety;

   Exception: Grass and other vegetation located more than 30 feet (9144 mm) from buildings or structures and less than 18 inches (457 mm) in height above the ground need not be removed where necessary to stabilize the soil and prevent erosion.

3. Remove portions of trees which extend within 10 feet (3048 mm) of the outlet of a chimney;
4. Maintain trees adjacent to or overhanging a building free of deadwood; and;
5. Maintain the roof of a structure free of leaves, needles or other dead vegetative growth.

N116.2 Corrective actions. The executive body is authorized to instruct fire code official to give notice to the owner of the property upon which conditions regulated by Section 16.1 exist to correct such conditions. If the owner fails to correct conditions, the executive body is authorized to cause the same to be done and make the expense of such correction a lien upon the property where such condition exists.

Section N117
Clearance of Brush or Vegetation Growth from Roadways

N117.1 Clearance of brush or vegetation. Fire code official is authorized to cause areas within 10 feet (3048 mm) on each side of portions of highways and private streets which are improved, designed or ordinarily used for vehicular traffic to be cleared of flammable vegetation and other combustible growth. Fire code official is authorized to enter upon private property to do so.
Exception: Single specimens of trees, ornamental shrubbery or cultivated ground such as green grass, ivy, succulents or similar plants used as ground cover, provided that they do not form a means of readily transmitting fire.

Section N118
Unusual Circumstances

N118.1 Unusual circumstances. If fire code official determines that difficult terrain, danger of erosion or other unusual circumstances make strict compliance with the clearance of vegetation provisions of Sections 115, 116, or 117 of Appendix K undesirable or impractical, enforcement thereof may suspended and reasonable alternative measures shall be provided.

Section K N119
Dumping

N119.1 Dumping Garbage, cans, bottles, papers, ashes, refuse, trash, or rubbish or combustible waste material shall not be placed, deposited or dumped in or upon hazardous fire areas, in or upon or along trails, and roadways or highways in hazardous fire areas.

Exception: Approved public and private dumping areas

Section N120
Disposal of Ashes

N120.1 Disposal of ashes. Ashes and coals shall not be place, deposited or dumped in or upon hazardous fire areas.

Exceptions:
1. In the hearth of an established fire pit, camp stove or fireplace.
2. In a noncombustible container with a tight fitting lid, which is kept or maintained in a safe location not less than 10 feet (3048 mm) from combustible vegetation or structures.
3. Where such ashes or coals are buried and covered with 1 foot (304.8 mm) of mineral earth not less than 25 feet (7620 mm) from combustible vegetation or structures.

Section N121
Use of Fire Roads and Firebreaks

N121.1 Use of fire roads and firebreaks. Motorcycles, motor scooters and motor vehicles shall not be driven or parked upon, and trespassing is prohibited upon, fire roads or firebreaks beyond the point where travel is resisted buy a cable, gate or sign,
without the permission of the property owners. Vehicles shall not be parked in a manner which obstructs the entrance to a fire road or firebreak.

**Exception:** Public officers acting within their scope of duty.

Radio and television aerials, guy wires thereto, and other obstructions shall not be installed or maintained on fire roads or firebreaks unless located 16 feet (5877 mm) or more above such fire road or firebreak.

**Section - N122**

*Use of Motorcycles, Motor scooters and Motor Vehicles*

**N122.1 Use of motor vehicles.** Motorcycles, motor scooters and motor vehicles shall not be operated within hazardous fire areas, without a permit by fire code official, except upon clearly established public or private roads. Permission from the property owner shall be presented when requesting a permit.

**Section N123**

*Tampering with Fire Department Locks, Barricades and Signs*

**N123.1 Tampering with fire department locks, barricades and signs.** Locks, barricades, seals, cables, signs and markers installed within hazardous fire areas, by or under the control of fire code official, shall not be tampered with, mutilated, destroyed or removed. Gates, doors, barriers and locks installed by or under the control of fire code official shall not be unlocked.

**Section N124**

*Liability for Damage*

**N124.1 Liability for damage.** The expenses of fighting fires which result from a violation of Appendix K shall be a charge against the person whose violation of Appendix K caused the fire. Damages caused by such fires shall constitute a debt of such person and are collectable by fire code official in the same manner as in the case of an obligation under a contract, expressed or implied.

**APPENDIX O**

*EXCAVATION AND CONFINEMENT*

**SECTION O101**

*GENERAL*
**O101.1 Scope.** The provisions of the appendix shall apply to any man-made cut, cavity, trench or depression in an earth surface formed by earth removal, and identifies procedures to protect employees from the hazards of entry into confined spaces.

**SECTION O102**
Definitions

- **O102.1 Definitions.** The following words and term shall, for the purpose of this appendix and as used elsewhere in this code, have the meaning shown herein.

**CONFINED SPACE.** Is a space that:

1. Is large enough and so configured that an employee can bodily enter and perform assigned work; and
2. Has limited or restricted means for entry or exit;
3. Is not designed for continuous employee occupancy.

**EXCAVATION.** Any man-made cut, cavity, trench or depression in an earth surface, formed by earth removal.

**TRENCH.** A narrow excavation made below the surface of the ground. In general, the depth is greater than the width, but the width of a trench (measured at the bottom) is not greater than 15 feet. If forms or other structures are installed or constructed in an excavation so as to reduce the dimension measured from the form or structures to the side of the excavation to 15 feet or less, the excavation is a trench.

**SECTION O 103**
Excavation and trenches

- **O103.1 Excavation and trenches.** Excavation and trenches shall be in accordance with the 29CFR, Parts 1926.650-652, Subpart P.

**SECTION O 104**
Confined spaces

- **O104.1 Confined spaces.** Confined spaces shall be in accordance with 29CFR, Part 1910.146. Other recognized standards that must be adhered to include 40CFR, Parts 280 and 281.

**SECTION O 105**
Unsafe conditions

- **O105 Unsafe conditions.** When in the opinion of the fire code official or his/her designee, an unsafe condition exists, excavation and confined space operations shall
cease until such time as adequate means have been taken to provide for the safety of persons working in or around the excavation or confined space. Failure to do so may result in citations and fines.
ORDINANCE NO. 4283


BE IT ORDAINED by the Mayor and City Council of the City of Scottsdale, Arizona, as follows:


Section 2. Chapter 36, Fire Prevention and Protection, Section 36-18.1, of the Scottsdale Revised Code, Section 36-18.1, Adoption and Amendments, which shall read as specified in that certain document entitled "2016 City of Scottsdale Amendments to the 2015 International Fire Code," declared to be a public record by Resolution No. 10598 of the City of Scottsdale, and hereby referred to, adopted and made a part hereof as if fully set out in this Ordinance.

Section 3. The violation and penalty provisions contained in Sections 36-19.1, 36.19.2, 36.19.3, 36-19.4, and 36-19.6 of Chapter 36 of the Scottsdale Revised Code, are amended as follows:

Sec. 36-19.1. - Civil Penalties.

(a) Upon a finding of responsible to civil violation, the court shall impose a fine not to exceed two hundred fifty dollars ($250.00) or one thousand five hundred dollars ($1,500.00).

(b) Upon a conviction of a misdemeanor, the defendant shall be sentenced pursuant to the provisions of section 1-8 of this Code.

(c) The application of the penalties provided for in paragraphs (a) and (b) of this section shall not be held to prevent the enforced removal of prohibited conditions.

Sec. 36-19.2. - Civil Misdemeanor violations, commencement of action.

A violation of this chapter may only be deemed a class one misdemeanor if the violation is a second or subsequent violation of this chapter within two (2) years of the first violation.

(a) A civil violation may be commenced by issuance of a citation or by long-form complaint.
— (b) The citation will be substantially in the same form as the Arizona Traffic Ticket and Complaint and shall direct the defendant to appear in Scottsdale City Court within ten (10) days after issuance of the citation.

— (c) The citation will further notify the defendant that if he fails to appear on or before the date specified in the complaint, a judgement by default will be entered against him, and the court may, in its discretion, impose a civil sanction not to exceed two hundred fifty dollars ($250.00):

— (d) Service of the citation may be accomplished and will be deemed proper and complete by any of the following methods:

1. (1) By having the defendant sign the citation with a promise to appear in court within ten (10) days of the issuance of the citation.

2. (2) If the defendant refuses to sign the citation, by hand delivering a copy of the citation to the defendant.

3. (3) By mailing a copy of the citation to the person charged at his last known address, by certified or register mail, return receipt requested.

4. (4) In the event service cannot be accomplished as set forth in (d)(1), (2) or (3), the state may serve the defendant by any means allowed by the Arizona Rules of Civil Procedure for the Superior Court.

— (e) Minor civil citations may be issued for non-compliance with the amended International fire code, City of Scottsdale Revised Statutes sections 36-16. 36-17. and 36-18. See City of Scottsdale Revised Statutes, Chapter 17, Article 5.

Sec. 36-19.3. - Authority to issue citation.

Any City or Scottsdale peace officer, the City Attorney, the Fire Chief or Fire Marshall, or duly authorized agent of the Fire Chief or Fire Marshall may issue a civil citation pursuant to this chapter.

Sec. 36-19.4. - Appearance Authority to issue criminal complaints.

Any City of Scottsdale peace officer or the City Attorney may issue criminal complaints to enforce this chapter.

(a) The defendant shall, within ten (10) days of the issuance of the citation, appear in person or through his attorney in the city court and shall either admit or deny the allegations contained in the citation. If the defendant admits the allegation, the court shall enter judgement against the defendant and, in its discretion, may impose a civil sanction for the violation. If the defendant denies the allegations contained in the citation, the court shall set dates for a pre-trial conference and for trial of the matter.

(b) If the defendant fails to appear for pre-trial conference or trial, the defendant’s failure to appear shall be deemed an admission of the offense and the court shall enter judgement against the defendant and may, in its discretion, impose a civil sanction for the violation.

Sec. 36-19.6. - Rules of procedure.

The Arizona Rules of Court for Civil Traffic Violation Cases may be followed by the city court for civil violations of this chapter, except as modified or where inconsistent with the provisions of this article, local rules of the city court or rules of the Arizona Supreme Court.
Section 4. If any section, subsection, sentence, clause or phrase of this Ordinance is, for any reason, held to be invalid or unconstitutional, such decision shall not affect the validity of the remaining portions of this Ordinance. The Scottsdale City Council hereby declares that it would have passed this law, and each section, subsection, clause or phrase thereof, irrespective of the fact that any one or more sections, subsections sentences, clauses and phrases be declared invalid or unconstitutional.

Section 5. The existing provisions of Chapter 36 will remain in effect until the effective date of this Ordinance. The repeal of any provision of the Scottsdale Revised Code effectuated by this Ordinance does not affect the rights and duties that matured or penalties that were incurred and proceedings that were begun before the effective date of this Ordinance.

Section 6. If there is any conflict or inconsistency between the provisions of this ordinance, the more restrictive provisions apply.

Section 7. The effective date of this ordinance shall be January 1, 2017.

PASSED AND ADOPTED BY THE Council of the City of Scottsdale, Maricopa County, Arizona this 28th day of November, 2016.

ATTEST:

CITY OF SCOTTSDALE,
an Arizona municipal corporation

Carolyn Jagger, City Clerk

W. J. "Jim" Lane, Mayor

APPROVED AS TO FORM:
OFFICE OF THE CITY ATTORNEY

Bruce Washburn, City Attorney
By: Patricia J. Boomsma, Assistant City Attorney
RESOLUTION NO. 10597


WHEREAS, the Building Department of the City of Scottsdale wishes to replace the existing building and construction codes with updated versions of the codes, and to amend the International and National Codes and the Scottsdale Revised Code to better address the needs of the City of Scottsdale; and

WHEREAS, State Law permits cities to declare documents a public record;

NOW, THEREFORE BE IT RESOLVED by the Council of the City of Scottsdale as follows:

Section 1. The following documents are hereby declared to be public records, and three copies are ordered to remain on file in the office of the City Clerk and kept available for public use and inspection:


(2) The "2016 City of Scottsdale Building Codes and Amendments" attached hereto as Exhibit A.

PASSED AND ADOPTED by the Council of the City of Scottsdale this _____ day of November 2016.

ATTEST:                         CITY OF SCOTTSDALE, an
                                  Arizona municipal corporation

__________________________________________________________
Carolyn Jagger, City Clerk

APPROVED AS TO FORM:
OFFICE OF THE CITY ATTORNEY

__________________________________________________________
W. J. "Jim" Lane, Mayor

By: Patricia J. Boomsma, Assistant City Attorney

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ARTICLE I. INTERNATIONAL BUILDING CODE AND SCOTTSDALE AMENDMENTS

DIV. 1. ADOPTED.

Sec. 31-1. International Building Code adopted and amended.


DIV. 2. AMENDMENTS TO IBC: CHAPTER 1, SCOPE AND ADMINISTRATION

Sec. 31-2. IBC SECTION 101 GENERAL - amendments.

Only the following portions of SECTION 101 GENERAL, are amended as follows:

[A] 101.1 Title.

These regulations shall be known as the Building Code of the City of Scottsdale, hereinafter referred to in this Article as “this code”.

101.4 Referenced codes.

The other codes listed in Sections 101.4.1 through 101.4.11 and referenced elsewhere in this code, as amended, shall be considered part of the requirements of this code to the prescribed extent of such reference.

101.4.1 Gas. The provisions of the International Fuel Gas Code, as adopted and amended in Article VI of Chapter 31 of the Scottsdale Revised Code, shall apply to the installation of gas piping from the point of delivery, gas appliances and related accessories as covered in this code. These requirements apply to gas piping systems extending from the point of delivery to the inlet connections of appliances and the installation and operation of residential and commercial gas appliances and related accessories.

101.4.2 Mechanical. The provisions of the International Mechanical Code, as adopted and amended in Article V of Chapter 31 of the Scottsdale Revised Code, shall apply to the installation, alterations, repairs and replacement of mechanical systems, including equipment, appliances, fixtures, fittings and/or appurtenances, including ventilating, heating, cooling, air-conditioning and refrigeration systems, incinerators and other energy related systems.

101.4.3 Plumbing. The provisions of the International Plumbing Code, as adopted and amended in Article IV of Chapter 31 of the Scottsdale Revised Code, shall apply to the installation, alteration, repair and replacement of plumbing systems, including equipment, appliances, fixtures, fittings and appurtenances, and where connected to a water or sewage system and all aspects of a medical gas system.

101.4.4 Property maintenance. The provisions of Chapter 18, Scottsdale Revised Code, shall apply.
101.4.5 Fire prevention. The provisions of Chapter 36, Scottsdale Revised Code, shall apply.

101.4.6 Energy. The provisions of the International Energy Conservation Code, as adopted and amended in Article VII of Chapter 31 of the Scottsdale Revised Code, shall apply to all matters governing the design and construction of buildings for energy efficiency.

101.4.7 Existing buildings. The provisions of the International Existing Building Code, as adopted and amended in Article VIII of Chapter 31 of the Scottsdale Revised Code, shall apply to matters governing the repair, alteration, change of occupancy, addition to and relocation of existing buildings.

101.4.8 Electrical. The provisions of the National Electrical Code, as adopted and amended in Article III of Chapter 31 of the Scottsdale Revised Code, shall apply to the installation of electrical systems, including alterations, repairs, replacement, equipment, appliances, fixtures, fittings and appurtenances thereto.

101.4.9 Green Building Program. The provisions of the International Green Construction Code, as adopted and amended in Article X of Chapter 31 of the Scottsdale Revised Code, shall apply to all matters governing the design and construction of buildings for sustainability.

101.4.10 Bleachers and similar structures. The provisions of "ICC-300 Bleachers, Folding and Telescopic Seating, and Grandstands" as published by the International Code Commission and declared a public record by City of Scottsdale Resolution No. 10629, are adopted and incorporated as an amendment to the city Building Code by this reference as though fully set forth herein.


Sec. 31-3. IBC SECTION 102 APPLICABILITY - amendments.

The only amendments to SECTION 102 APPLICABILITY, are the following additions: 102.6.3 Additions, alterations or repairs; and 102.6.4 Nonresidential and multi-family dwellings.

102.6.3 Additions, alterations or repairs.
Additions, alterations or repairs to any structure shall conform to the requirements for a new structure without requiring the existing structure to comply with all of the requirements of this code, unless otherwise stated. Additions, alterations or repairs shall not cause an existing structure to become unsafe or adversely affect the performance of the building.

102.6.4 Nonresidential and multi-family dwellings.
If, within a twelve (12) month period, additions, alterations, or repairs of nonresidential and multi-family dwellings exceed fifty (50) percent of the square footage valuation of the structure (based on the latest International Code Council Building Valuation Data), the entire building shall conform to the requirements for new buildings.

Sec. 31-4. IBC SECTION 104 DUTIES AND POWERS OF BUILDING OFFICIAL - amendments.
Only the following portions of SECTION 104 DUTIES AND POWERS OF BUILDING OFFICIAL, are amended.

(a) 104.8.2 is added as follows:

104.8.2 Conflict.
In the case of conflict between Sections 104.8 and 104.8.1, and Scottsdale Revised Code, Section 2-178, the provisions of Section 2-178 shall govern.

(b) [A] 104.10.1 Flood hazard areas, is amended to read as follows.

104.10.1 Flood hazard areas.
The building official shall not grant modifications to any provision required in flood hazard areas as established by Section 1612.3 unless the building official determines that the modification meets the conditions for granting a variance under Scottsdale Revised Code, Chapter 37, Stormwater and Floodplain Management.

Sec. 31-5. IBC SECTION 105 PERMITS – amendments.
Only the following portions of SECTION 105 PERMITS, are amended:

(a) [A] 105.1.1 Annual permit, is amended to read as follows:

105.1.1 Annual permit.
In lieu of an individual permit for minor work on an already approved electrical, gas, mechanical or plumbing installation, the building official may issue an annual permit upon application to any person, firm or corporation regularly employing one or more qualified tradespersons on the premises owned or operated by the permit applicant.

(b) Sections 105.1.2 through 105.1.7.1 are added to read as follows:

105.1.2 Application and fees. Application for an annual permit shall be filed with the building official, along with the application fee set forth in the city fee schedule.

105.1.3 Renewal application and fee. Annual permits expire on December 31. Application to renew an annual permit shall be filed by December 15, with the building official, along with the renewal application fee set forth in the city fee schedule.

105.1.4 Denial of application. If the application or renewal is denied, the fee shall be refunded. The applicant may appeal the denial to the Building Advisory Board of Appeals within 10 days after notice of the denial.

105.1.5 Suspension and revocation. The building official may suspend or revoke an annual permit upon violation of this code, including failure to apply for permits and inspections when required. Written notice of suspension or revocation shall be sent to the permit holder at least 10 days before suspension or revocation. Appeal may be made to the Building Advisory Board of Appeals within 10 days after notice of suspension or revocation. There is no fee refund if an annual permit is suspended or revoked.

105.1.6 Inspections. The building official may inspect all work, and reject work or request corrections for any work in violation of this code.

105.1.7 Annual permit records.
The person to whom an annual permit is issued shall keep a detailed record of work made under the annual permit. The building official shall have access to such records at all times.

105.1.7.1 Record exceptions.
Work reports are not required for:
1. Installing machines, equipment, and processes related to production or testing;
2. Repairing electrical, plumbing, or mechanical systems;
3. Moving cases, counters, and partitions not over 5 feet 9 inches tall.

(c) [A] 105.1.2 Annual permit records, is deleted.

(d) Only the following portions of [A] 105.2 Work exempt from permit, are amended, by replacing the portions as shown, and adding subsection 8 under Mechanical:

105.2 Work exempt from permit.
Exemptions from permit requirements of this code shall not be deemed to grant authorization for any work to be done in any manner in violation of the provisions of this code or any other laws or ordinances of this jurisdiction. Permits shall not be required for the following:

Building:
1. One-story detached accessory structures used as tool and storage sheds, playhouses and similar uses, provided the floor area is not greater than 200 square feet (18.6m²).
2. Fences not over 3 feet (0.9144m) high.
3. Oil derricks.
4. Retaining walls that are not over 3 feet (0.9144m) high measured from the bottom of the footing to the top of the wall, unless the retaining wall (a) redirects stormwater runoff, (b) supports a surcharge or (c) impounds Class I, II or IIIA liquids.

Electrical:
1. Repairs and maintenance: Minor repair work, including replacing lamps; connecting approved portable electrical equipment to approved permanently installed receptacles; replacing flush or snap switches, fuses, lamp sockets, receptacles, and worn cords; and tightening connections.

Mechanical:
8. Portable fuel cell appliances that are not connected to a fixed piping system and are not interconnected to a power grid.

(e) [A] 105.3.2 Time limitation of application, is amended as follows:

105.3.2 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 the last completed review for correction or approval, unless the application has been pursued in good faith or a permit has been issued. However, the building official is authorized 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.

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Sections 105.8 through 105.8.3 are added to read as follows:

105.8 Reactivation

Any person holding an expired permit may request the reactivation of the permit. Permit reactivation requests made up to 90 days after the permit expiration may be granted at no charge by the building official due to justifiable cause. Permit reactivation requests made 91 or more days from the permit expiration shall be charged as set forth in the city fee schedule.

105.8.1 Procedure

All reactivation requests shall be made to the building official, and, if required, in writing, with justifiable cause demonstrated. The building official may deny any request for permit reactivation for just cause. If granted, the applicant shall:

1. File a change of record form obtained from the city records department. The form shall be completed with current owner and contractor information and submitted to the city, accompanied by proof of ownership to the building official’s satisfaction.

2. Pay the applicable fee and, if required by the building official, schedule an inspection of the property.

3. Requests for copies of the city-approved plans shall be made in writing and accompanied with a notarized letter from the architect or engineer of record authorizing the city to release a copy of the plans to the applicant.

105.8.2 Stages of construction and applicable fees

Stage 1.
The structure has received approvals for all inspections UNDERSLAB (003, 004, 005, 006, 007 - and 010 if required). The structure is considered 25% complete. The permit reactivation fee shall be 75% of the full fee charged when the permit fees were paid.

Stage 2.
The structure has received approvals for all inspections through the ROOF DECK/STRAP & SHEAR (014). The structure is considered 50% complete. The permit reactivation fee shall be 50% of the full fee charged when the permit fees were paid.

Stage 3.
The structure has received approvals for all inspections up to the FINAL inspections, but has not received approvals for the FINAL inspections (026, 027, 028, 029, 030, 031, 043, 045). The structure is considered 75% complete. The permit reactivation fee shall be 25% of the full fee charged when the permit fees were paid.

Stage 4.
The structure has passed all required inspections but needs a certificate of occupancy. Once the property is found in compliance, a certificate of occupancy shall be issued. The permit reactivation fee shall be the minimum permit fee on the most current fee schedule.

105.8.3 Applicable codes
1. If a permit reactivation request is submitted after new codes have been adopted, the work may be completed under the code in place at the time the original permit was issued, if not more than 365 days have passed since the permit expiration.

2. If more than 365 days have passed, the applicant shall submit a new plan showing the current code requirements. Once plans are approved, a new permit shall be issued. All fees shall be based on the most current city fee schedule.

Sec. 31-6. IBC Sec. 107 SUBMITTAL DOCUMENTS - amendments.
Only the following portions of SECTION 107 SUBMITTAL DOCUMENTS, are amended.

(a) [A] 107.2 Construction documents, is amended to read as follows:

107.2 Construction documents.

Construction documents shall be in accordance with Sections 107.2.1 through 107.2.7.

(b) Sections 107.2.1.1 and 107.2.1.2 are added to read as follows:

107.2.1.1 Cover sheet.

On the cover sheet or site plan, building code data (separate from planning, zoning and other non-building code data) shall include:

1. City construction codes for the project;
2. Number of buildings;
3. Occupancy groups, occupancy separation fire ratings or non-separated uses;
4. Construction types;
5. Floor area and allowable floor area or unlimited area;
6. Height and number of stories and allowable height and number of stories;
7. Fire sprinkler classifications;
8. Status and uses;
9. Occupant load(s) of rooms and number of exits per story;
10. Live loads for each floor or portion thereof of a nonresidential building that is or has been designed to exceed 50psf (2.40kN/m2); and
11. Information on any modifications approved for the building(s).

107.2.1.2 Included plans. Construction documents shall include:

1. Supporting data, calculations, dimensioned site plans indicating required yards, imaginary and actual property lines.
2. Plans indicating how required structural and fire-resistive integrity will be maintained where penetrations are made for electrical, mechanical, plumbing and communication conduits, pipes and similar systems.
3. An egress plan showing the common path of travel from the most remote point in the rooms, proposed exit paths, travel dimensions, exit access travel distances, and accessible egress.
4. An architectural site plan or separate site plan showing accessible routes from accessible parking spaces and passenger loading zones to the entrances and exits of the building(s), including slopes at grade along the accessible routes (i.e. 1:50, 1:20, 1:12).

5. For plans related to detached dwellings, identify braced wall lines and show all pertinent information including: bracing methods, location and length of braced wall panels, foundation requirements, and design details at top and bottom of braced wall panels.

(c) [A] 107.2.2 Fire protection system shop drawings, is amended as follows:
107.2.2 Fire protection system shop drawings.

The provisions of the Fire Code as adopted and amended in the Scottsdale Revised Code, Chapter 36, shall apply.

(d) [A] 107.2.5.1 Design flood elevations, is amended as follows:
107.2.5.1 Design flood elevations.

Where design flood elevations are not specified, they shall be established in accordance with Section 1612.3.1.

For buildings and structures located in flood hazard areas, construction documents shall include:
1. Delineation of flood hazard areas, floodway boundaries and flood zones.
2. Design flood elevation.
3. In Special Flood Hazard Areas, the elevation of the lowest floor, including basement, above the highest adjacent grade; in other areas, elevation of the lowest floor, including basement.
4. If design flood elevations are not included on the city's Flood Insurance Rate Map (FIRM), the building official may approve design flood elevations and floodway data from other sources.

(e) 107.2.7 Standard plans, is added as follows:
107.2.7 Standard plans.

An applicant may submit a standard plan, which is a single-family residential construction plan used two or more times, with optional features. If approved, only modifications not shown on the standard plan must be submitted for review. All modifications shall be clearly identified by clouded symbols, deltas, or other appropriate means. The review fee for modifications only, will be hourly in accordance with city fee schedule. If, in building official's judgement, the modifications are excessive or inadequately defined, the full plan review fee will be charged.

(f) [A] 107.3.1 Approval of construction documents, is amended as follows:
107.3.1 Approval of construction documents.

When the building official issues a permit, the construction documents shall be approved, in writing or by stamp. One set of construction documents shall be retained by the building

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official. The other set shall be returned to the applicant, and together with manufacturer's installation instructions, shall be kept at the site of work and shall be open to inspection by the building official.

Sec. 31-7. IBC SECTION 109 FEES - amendments.
Only the following portion of SECTION 109 FEES, is amended.

[A] 109.4 Work commencing before permit issuance, is amended as follows:

109.4 Work commencing before permit issuance.

1. Any person who commences any work on a building, structure, electrical, gas, mechanical or plumbing system before obtaining the necessary permits shall be subject to a fee double the permit fee that would have been owed if the permit had been issued before the work began. Emergency work is exempt from penalties if a permit is obtained at the beginning of the next business day.

2. If a Notice to Comply/Stop Work Order is issued for work that would have been a "no fee" permit, the fee shall be double the permit fee that would have been owed if the City Council had not reduced or waived the fee.

Sec. 31-8. IBC SECTION 110 INSPECTIONS - amendments.
Only the following portions of SECTION 110 INSPECTIONS, are amended.

(a) [A] 110.3.8 Other inspections, is amended to read as follows:

110.3.8 Other inspections.

In addition to the inspections specified in Sections 110.3.1 through 110.3.7, the building official is 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 by the department of building safety. A complete list of required inspections can be found on the city website and on job cards.

(b) 110.7 Special inspections, is added as follows:

110.7 Special inspections.

The building official may require special inspections for complex electrical installations, such as:

a. Lightning protection systems.
b. Extensive grounding grid installations.
c. An electrical installation that cannot be visually inspected at the time of installation.

Sec. 31-17. IBC SECTION 111 CERTIFICATE OF OCCUPANCY - amendments.
Only the following portions of SECTION 111 CERTIFICATE OF OCCUPANCY, are amended.

(a) [A] 111.3 Temporary Occupancy, is amended to read as follows:

111.3 Temporary occupancy.

The building official may issue a temporary certificate of occupancy for a building or structure as outlined below.
(b) 111.3.1 through 111.3.5 are added as follows:

111.3.1 Non-single-family residential.
If the building official finds no substantial hazard will result from occupancy of any nonresidential building or structure, or portion thereof, before it is completed, a temporary certificate of occupancy may be issued if the applicant agrees to the following conditions:

1. The applicant shall diligently pursue and complete the required work before the temporary certificate of occupancy expires and request a final inspection.

2. The temporary certificate of occupancy will expire at the time stated in the certificate, not to exceed 180 days, and power will be de-energized. Upon expiration of the temporary certificate of occupancy, the building or structure shall be immediately vacated.

3. Neither the city nor the utility company is liable for any damages or delays if power is de-energized.

4. The applicant shall pay a deposit to the city for the temporary certificate of occupancy, as provided in Section 111.3.5.

111.3.2 Single-family dwelling.
If the applicant provides justifiable cause, the building official may issue a temporary certificate of occupancy for a single-family dwelling if the applicant agrees to conditions 1. through 4. of Section 111.3.1, except that the temporary certificate of occupancy shall not be valid for more than 90 days.

111.3.3 Extension of temporary certificate of occupancy.
The building official may extend a temporary certificate of occupancy upon the applicant's written request, showing that circumstances beyond the applicant's control have prevented the completion of the project.

111.3.4 Applicant
The applicant shall be the owner or the owner's authorized agent. If the applicant is the owner's authorized agent, the owner shall provide authorization to the satisfaction of the building official. The applicant shall inform the city of any changes to the application.

111.3.5 Deposit
A cash deposit is required for each temporary certificate of occupancy. The amount of the deposit is the total of all permit fees for the project (including foundation, building, electrical, mechanical and plumbing permit fees), or twenty-five hundred dollars ($2,500.00), whichever is greater. If the building or structure is occupied without a valid certificate of occupancy, the deposit is forfeited to the city. Otherwise, within 30 days of the issuance of the final certificate of occupancy, the deposit, less $200.00 administrative fee, will be refunded to the owner.

Sec. 31-10. IBC SECTION 112 SERVICE UTILITIES - amendments.
Only the following portions of SECTION 112 SERVICE UTILITIES, are amended.
[A] 112.2 Temporary connection, is amended by adding the following:

112.2.1 Temporary electrical clearance.

The building official may authorize temporary power to provide construction power and lighting, and to test equipment, after the applicant passes Building Inspection #024, if the applicant agrees to the following conditions:

1. The power shall not be used for any purpose other than construction or testing. The building official may de-authorize power at any time, when in the building official's judgement, the power is used for purposes other than authorized.

2. The applicant shall diligently pursue and complete the required work before the temporary power expires and request a final inspection.

3. The temporary power will expire at the time stated in the certificate.

4. Neither the city nor the utility company is liable for any damages or delays if power is de-energized.

5. The applicant shall pay a deposit to the city for the temporary power, as provided in Section 112.2.4.

112.2.2 Extension of temporary power.

The building official may extend temporary power upon the applicant's written request, showing that circumstances beyond the applicant's control have prevented the completion of the project.

112.2.3 Applicant

The applicant shall be the owner or the owner's authorized agent. If the applicant is the owner's authorized agent, the owner shall provide authorization to the satisfaction of the building official. The applicant shall inform the city of any changes to the application.

112.2.4 Deposit

A cash deposit is required for each temporary electrical clearance. The amount of the deposit is the total of all permit fees for the project (including foundation, building, electrical, mechanical and plumbing permit fees), or twenty-five hundred dollars ($2,500.00), whichever is greater. If the building or structure is occupied without a valid certificate of occupancy, or the power is used for purposes other than authorized, the deposit is forfeited to the city and the power de-authorized. Otherwise, within 30 days of the issuance of the final certificate of occupancy, the deposit, less $200.00 administrative fee, will be refunded to the owner.

112.2.5 Lock out/tag out safety program

1. To apply for temporary electrical clearance, the permit holder shall provide the building official the following information on the form provided:
   a. Project address and permit number.
   b. Description of equipment being energized.
   c. The safety plan to be implemented on the project to ensure the safety of all workers on the site.
d. The name, phone number and email address of the permit holder.

2. The form shall be:
   a. Signed by the permit holder, acknowledging responsibility for safety.
   b. Distributed to and signed by all workers on the site.
   c. Posted on the site.
   d. Kept on site, along with copies of the form signed by all workers on the site.

Sec. 31-11. IBC SECTION 113 BOARD OF APPEALS - amendments.  
Only the following portions of SECTION 113 BOARD OF APPEALS, are amended.

(a) The title of SECTION 113 is amended as follows:

SECTION 113 – BUILDING ADVISORY BOARD OF APPEALS

(b) [A] 113.1 General, is amended as follows:

113.1 General.

In order to hear and decide appeals of orders, decisions or determinations made by the building official relative to the application and interpretation of this code, there shall be and is hereby created a Building Advisory Board of Appeals consisting of seven (7) members. The building official shall be an ex officio member of the Board and shall act as secretary to the Board. The Building Advisory Board of Appeals shall be appointed by the applicable governing authority and shall hold office at its pleasure. The Board shall adopt rules of procedure for conducting its business.

(c) [A] 113.3 Qualifications, is amended as follows:

113.3 Qualifications.

The Building Advisory Board of Appeals shall consist of members who are qualified by experience and training to pass on matters pertaining to building construction and are not employees of the City of Scottsdale.

Sec. 31-12. Additional IBC amendments – CONSTRUCTION ACTIVITY.  
The following sections are added to CHAPTER 1 SCOPE AND ADMINISTRATION, of the International Building Code:

SECTION 117 - CONSTRUCTION ACTIVITY

117.1 Working hours. All construction and related work (including using manual or power tools or equipment, and vehicles for excavation and material delivery) is restricted to the hours stated herein.

117.1.1 Summer hours. April 1st through October 31st: no work shall begin before 6:00am or continue after 7:00pm Monday through Friday; or before 7:00am or continue after 7:00pm on Saturday.

117.1.2 Winter hours. November 1st through March 31st: no work shall begin before 7:00am or continue after 5:00pm Monday through Friday; or before 8:00am or continue after 5:00pm on Saturday.
117.1.3 Sunday hours. No Sunday work is allowed unless the applicant demonstrates, in writing to the building official, justifiable cause for the work.

117.1.4 Homeowner hours. Homeowners doing general maintenance may work Saturday hours on Sunday.

117.1.5 Other hours. The city may establish other hours based on the location of the jobsite in relation to surrounding occupancies, buildings and structures.

117.2 Working hours modifications.
The building official may grant a modification of working hours for justifiable cause.

117.2.1 Application.
An application shall be submitted to the building official at least seven (7) days before the work is to be done. The application shall be in writing and demonstrate that work must be done outside the prescribed time period, such as pouring concrete during summer hours.

117.2.2 Notification.
The applicant shall notify the adjacent property owners in writing of intended work and duration of time, including contact information for questions. Proof of this notification shall be filed with the application.

117.2.3 Criteria and conditions.
No modification shall be granted for work that can be completed during working hours, for convenience only, or for more than 30 days. If a longer timeframe is necessary, additional applications shall be made. The modification shall state the permit number, address, type of work, time period of the work and the duration of the modification.

117.3 Dust, dirt and debris control.
The property owner shall control dust, dirt and debris created by workers, construction and construction vehicles. Controls shall include:

1. Watering to minimize airborne dust.
2. Immediate removal of construction dirt, debris, scraps and trash deposited on adjacent property and public right-of-way.
3. An on-site area to contain dirt, debris, scraps and trash until they can be removed.

117.3.1 Enforcement.
Any city enforcement officer may enforce this section to control dust, dirt and debris. A compliance notice shall be in writing and shall be given to the owner of the property involved, the owner's authorized agent or the person performing the work, stating what actions are required in what time period. Noncompliance may result in a stop work order. The city is not liable for construction delays caused by noncompliance with these requirements.

Sec. 31-13. Additional IBC amendments – CONSTRUCTION NOISE.
The following sections are added to CHAPTER 1 SCOPE AND ADMINISTRATION, of the International Building Code:

SECTION 118 - CONSTRUCTION NOISE
118.1 Purpose.
This section regulates construction noise where a construction site may impact a residential occupancy, or where, in the building official's judgement, construction noise will cause complaints.

Exception: Where, in the building official's judgement, construction noise will not cause complaints, the building official may waive the requirements of this Section.

118.2 Definitions.
The following definitions apply to Section 118.

CONSTRUCTION NOISE. Sound created by construction work, including:
1. Vehicle back-up alarms.
2. Equipment such as generators or concrete pumps.
3. Amplified sounds generated by devices such as:
   a. Am/fm car radios or stereos;
   b. Boom boxes;
   c. Cassette, CD and DVD players;
   d. I-pods or MP3 players;
   e. Public address systems;
   f. Loud speakers; and
   g. Similar equipment that amplifies sound.

CONSTRUCTION WORK. Work described in Section 101.2, including grading, excavation, backfilling; importing or exporting fill material, loading and unloading construction equipment or materials, and idling vehicles.

Exceptions:
2. Landscaping work for which a permit is not required.

RESIDENTIAL OCCUPANCY. A building for long-term or short-term residency, including single and multi-family dwellings, hotels, motels, apartments, nursing homes, retirement homes, assisted living, and other similar residences, within seven hundred fifty (750) feet or less of a construction site.

WORKING HOURS. Hours described in Section 117.1.

118.3 Regulations.
Except as allowed by an approved Noise Mitigation Plan, construction noise is prohibited at residential occupancies.

Exception: 2-way radios on the jobsite are permitted.

118.4 Notice to affected neighborhoods.
The property owner of the construction site may be required to have one or more neighborhood meetings to discuss noise mitigation strategies. Neighborhood notification
shall be door-to-door or through a homeowners association. The information discussed with the neighborhood shall include:

1. What kind and volume of noise to expect,
2. Construction schedules (including daily timeframes and anticipated completion date), and
3. Names and phone numbers of jobsite contacts who can address complaints immediately.

118.5 Noise Mitigation Plan
In response to the neighborhood meetings, the property owner shall develop a Noise Mitigation Plan. The Plan shall include:

1. Project name and address.
2. Names and phone numbers of jobsite contacts who can address complaints immediately.
3. Anticipated date of job completion.
4. Anticipated date of concrete pours.
5. Location and type of sound barriers, if required or used.
6. Work proposed to be performed outside working hours.
8. Methods to keep affected persons updated and informed.
9. Other information as required by the building official.

118.6 Noise mitigation strategies.
The plan shall include the following mitigation strategies:

1. Sundays as quiet days; and
2. As required by the building official:
   a. Smart alarms in lieu of back-up beepers.
   c. Amplified sounds (described in Section 118.2, in the definition of construction noise) only permitted between 9:00am and 5:00pm Monday through Friday.
   d. Other reasonable noise mitigation methods.

118.7 Noise Mitigation Plan submission and review.
The Noise Mitigation Plan shall be submitted to the building official, and subject to approval, before any permits are issued.

118.8 Property owner responsibilities.
After approval of the Noise Mitigation Plan, the property owner of the construction site shall:

1. Notify the building official and affected persons immediately of any delays or changes in schedules.
2. Apply for any proposed working hours modifications.
3. Make adjustments in Noise Mitigation Plan as needed in consultation with, or at the direction of, the building official.
4. Keep affected persons updated and informed.
5. Enforce the Noise Mitigation Plan.

118.9 Exemptions.
No Noise Mitigation Plan is required for construction work to:
1. Protect the health, safety or welfare of persons or property in an emergency,
2. Construct city capital projects except projects to construct buildings, or
3. Restore utilities, cable or phone service.

Sec. 31-14. Additional IBC amendments – FIRE DAMAGED PROPERTY.
The following sections are added to CHAPTER 1 SCOPE AND ADMINISTRATION, of the International Building Code:

SECTION 119 – FIRE DAMAGED PROPERTY
119.1 Assessment required.
When the structural components of a building have been subjected to fire, the city requires an assessment of structural damage from an architect or engineer registered in Arizona.
Structural calculations, including engineered truss design by an approved manufacturer, are required for all structural replacements or modifications. All truss designs shall be keyed to the roof framing plan. The city may require calculations to substantiate the adequacy of charred or damaged structural framing. In computing the effective section modulus, the charred wood and 1/4 inch depth below the char shall be discounted. Testing may be required to determine the adequacy and structural strength of damaged structural elements.

119.2 Permits.
Plans and building permits are required when building components, including electrical, plumbing, and mechanical systems are repaired or replaced.

Sec. 31-15. Additional IBC amendments – OFFICE OF MANUFACTURED HOUSING.
The following sections are added to CHAPTER 1 SCOPE AND ADMINISTRATION, of the International Building Code:

SECTION 120 – OFFICE OF MANUFACTURED HOUSING
120.1 General.
The Arizona Office of Manufactured Housing maintains standards of quality and safety for: manufactured homes, factory-built buildings, mobile homes and accessory structures; and installation of manufactured and mobile homes, factory-built buildings and accessory structures. See Arizona Revised Statutes, Title 41, Chapter 16, Article 2.

120.2 State enforcement.
The Arizona Office of Manufactured Housing enforces the standards.

120.3 Document submittal.
The following information shall be submitted to the city to install a manufactured home, factory-built building, mobile home or accessory structure:
1. Plans and other documents to resolve all planning, zoning and civil engineering issues.
2. Architectural plans indicating the location and use of all buildings on the property, and the location of utilities, septic systems, driveways and other improvements.
3. Water meter calculation for the property.
4. Electrical calculation for each service on the property.
5. Fire sprinkler plans.

Sec. 31-16. Additional IBC amendments – BARRIERS FOR POOLS, SHAFTS, PITS AND EXCAVATIONS.
The following sections are added to CHAPTER 1 SCOPE AND ADMINISTRATION, of the International Building Code:

SECTION 121 – BARRIERS FOR POOLS, SHAFTS, PITS AND EXCAVATIONS

121.1 Barriers required.
An owner of property where there is a swimming pool; or mining shaft, test hole, well, pit, or similar excavation which exceeds six (6) feet in any horizontal dimension and three (3) feet in depth shall:
1. Cover, fence or provide equivalent barriers for the hazard, and
2. Maintain the barriers.

121.2 Barrier required for swimming pools.
The barrier required in Section 31-68, Scottsdale Revised Code, for swimming pools is an equivalent barrier.

[Sections 31-17 – 31-19: Reserved]

DIV. 3. AMENDMENTS TO IBC: CHAPTER 4 TO END

Sec. 31-20. IBC CHAPTER 4 MOTOR VEHICLE-RELATED OCCUPANCIES – amendments.
Only the following portion of CHAPTER 4 MOTOR VEHICLE-RELATED OCCUPANCIES is amended.

406.3.5 Carport separation – non-single-family dwelling, is added as follows:

406.3.5.2 Carport separation – non-single-family dwelling.
Carports which are open on all sides, for other than single-family dwellings, and constructed entirely of noncombustible materials, except for an approved fascia, shall:
1. Not exceed three thousand (3,000) square feet,
2. Be at least three (3) feet from the property line, and
3. Be at least six (6) feet from the furthest projecting element of a building or structure.
Distances shall be measured from the edge of the carport roof to the property lines and projecting elements of buildings or structures.

Sec. 31-21. IBC CHAPTER 9 FIRE PROTECTION SYSTEMS – amendments.
SECTION 903 AUTOMATIC SPRINKER SYSTEMS is amended to read as follows:

SECTION 903 AUTOMATIC SPRINKER SYSTEMS.
See Scottsdale Revised Code, Chapter 36, for automatic sprinkler system requirements.

Sec. 31-22. IBC CHAPTER 11 ACCESSIBILITY – amendments.
1101.3 Other laws, regulations, guidelines, and standards, is added as follows:

1101.3 Other laws, regulations, guidelines, and standards

The following statutes, regulations, and documents are adopted by reference as part of the city Building Code:


(2) Arizonans with Disabilities Act (Arizona Revised Statutes, Title 41, Chapter 9, Article 8), as it may be amended from time to time, and its implementing rules, as they may be amended from time to time (Arizona Administrative Code, Title 10, Chapter 3, Article 4).


(4) “2010 ADA Standards for Accessible Design,” as published by the United States Department of Justice, Civil Rights Division and declared a public record by City of Scottsdale Resolution No. 10631, and adopted and incorporated as an amendment to and made a part of the city Building Code as though full set forth herein.

Sec. 31-23. IBC CHAPTER 12 INTERIOR ENVIRONMENT – amendments. Only the following portion of CHAPTER 12 INTERIOR ENVIRONMENT is amended.

1204.1 Equipment and systems, is amended as follows:

1204.1 Equipment and systems.

Interior spaces intended for human occupancy shall be provided with heating per Section 1204.1.1 and cooling per Section 1204.1.2.

1204.1.1 Heating

Heating facilities shall be provided, capable of maintaining room temperature at 68°F (20°C) in all habitable rooms, bathrooms and toilet rooms, based on the winter design temperature of 34°F (01°C) for Phoenix, per Appendix D of the International Plumbing Code. Cooking appliances shall not be used to provide space heating to meet the requirements of this section.

Exceptions: Heating systems are not required for:

1. Interior spaces where the primary purpose of the space is not associated with human comfort.
2. Group F, H, S or U occupancies.

1204.1.2 Cooling

Cooling facilities shall be provided, capable of maintaining room temperature at 85°F (29°C) in all habitable rooms, bathrooms and toilet rooms, based on the summer design temperature of 107°F (42°C) for Phoenix, per Appendix D of the International Plumbing Code.

Exceptions: Cooling systems are not required for:
1. Interior spaces where the primary purpose of the space is not associated with human comfort.
2. Group F, H, S or U occupancies.

Sec. 31-24. IBC CHAPTER 16 STRUCTURAL DESIGN – amendments.
Only the following portion of CHAPTER 16 STRUCTURAL DESIGN is amended.

1612.3 Establishment of flood hazard areas, is amended to read as follows:
1612.3 Establishment of flood hazard areas.
The city has established flood hazard areas. The flood hazard areas include, at a minimum, areas shown on the adopted Flood Insurance Rate Map (FIRM). The adopted FIRM, Flood Insurance Study, and related supporting data, all as amended, are hereby adopted by reference and declared to be part of this section. See Scottsdale Revised Code, Chapter 37, Stormwater and Floodplain Management, for further requirements.

Sec. 31-25. IBC CHAPTER 18 SOILS AND FOUNDATIONS – amendments.
Only the following portions of CHAPTER 18 SOILS AND FOUNDATIONS are amended.

(a) TABLE 1806.2 PRESUMPTIVE LOAD-BEARING VALUES is amended in part so that the Vertical Foundation Pressure for Class 4 Materials shall be 1500 psf.

(b) 1809.4 Depth and width of footings, is amended as follows:
1809.4 Depth and width of footings.
The minimum depth of footings below the undisturbed ground surface shall be 18 inches (457 mm). Where applicable, the requirements of Section 1809.5 shall also be satisfied. The minimum width of footings shall be 16 inches (407 mm) for foundation walls and 24 inches (610 mm) for isolated columns.

Sec. 31-26. IBC CHAPTER 21 MASONRY – amendments.
CHAPTER 21 MASONRY, is amended by adding the following:

(a) SECTION 2114 CLEAN BURNING FIREPLACES, WOODSTOVES AND SOLID FUEL BURNING DEVICES
2114.1 General.
The requirements of Section 2114 apply to multi-family dwellings.

2114.2 Purpose.
This Section regulates fireplaces, woodstoves, and other solid fuel burning devices to reduce air pollution caused by particulate matter and carbon monoxide.

2114.3 Installation restrictions.
1. Only the following fireplaces, woodstoves and solid fuel burning devices are permitted:
   1.1 A fireplace with a permanently-installed gas or electric log insert.
   1.2 A fireplace, woodstove, or solid fuel burning device certified by the United States Environmental Protection Agency as conforming to 40 Code of Federal Regulations Part 60, Subpart AAA, as amended.
   1.3 A fireplace, woodstove or solid fuel burning device listed by a nationally-recognized testing agency as meeting performance standards equivalent to 40 Code of Federal Regulations Part 60, Subpart AAA, as amended.
1.4 A fireplace, woodstove or other solid fuel burning device determined by the Maricopa County Air Quality Department as meeting performance standards equivalent to 40 Code of Federal Regulations Part 60, Subpart AAA, as amended.

1.5 A fireplace with a permanently-installed woodstove insert which complies with paragraph 1.2, 1.3, or 1.4 above.

2. The following are not regulated by these requirements:

2.1 Furnaces, boilers, incinerators, kilns, and similar space-heating equipment.

2.2 Industrial process equipment.

2.3 Cook-stoves, barbecue grills, and similar appliances designed primarily for cooking.

2114.4 Alterations prohibited.

1. No permanently-installed gas or electric log insert, or woodstove insert, in a fireplace, shall be altered or removed to convert the fireplace to burn wood or other solid fuel.

2. No alteration shall be made to a fireplace, woodstove or solid fuel burning device to void its certification or remove its compliance with this section.

2114.5 Permits required.
Construction, installation and alteration of all fireplaces; woodstoves; and gas, electric and solid fuel burning devices and equipment, are subject to the requirements, permits and inspections of this code.

(b) SECTION 2115 CHIMNEYS AND FIREPLACES

2115.1 General.
The requirements of Section 2115 apply to multi-family dwellings.

2115.2 Outdoor wood-burning devices.
Outdoor fireplaces, woodstoves, fire pits and other devices capable of burning wood shall be installed:

1. At least 8 feet from any property line that abuts another property; or

2. At least 10 feet from any property line in a zero lot line subdivision.

Exceptions:
1. When a property line abuts a street or alley, the setback for these devices shall comply with the Zoning Ordinance.

2. The building official may allow a smaller setback if safety standards are met.

2115.3 Outdoor gas devices.
Outdoor fireplaces, fire pits and other devices that burn gas only shall be vented as required by the International Fuel Gas Code.

2115.4 Chimneys and flues.
Fireplaces, woodstoves, fire pits and other devices with a chimney or flue shall comply with Section 2113.9 Termination.

2115.5 Code compliance.
1. Construction, installation and alteration of all outdoor fireplaces; woodstoves; fire pits and similar gas, electric and solid fuel burning devices and equipment, are subject to the requirements, permits and inspections of this code.

Exception: No permit is required for the masonry surround for outdoor fireplaces; woodstoves; fire pits and similar gas, electric, and solid fuel burning devices.

2. With the permit application, a site plan shall be submitted indicating the location of the device and its proximity to the property line, alley, public right-of-way and all structures on the property.

Sec. 31-27. IBC CHAPTER 23 WOOD – amendments.
Only the following portion of CHAPTER 23 WOOD is amended.
2308.5.2.2 Anchoring, is added as follows:

2308.5.2.2. Anchoring.
Bearing and exterior walls shall have a framing anchor or tie-down connecting every other stud to top and bottom plates, unless the wall is sheathed with structural paneling which extends from the top to bottom plates with nailing per Table 2304.10.1. Framing anchors, mechanical fasteners and structural sheathing shall be installed to provide continuous ties from the roof to the foundation.

Sec. 31-28. IBC CHAPTER 24 GLASS AND GLAZING – amendments.
Only the following portion of CHAPTER 23 GLASS AND GLAZING is amended.
2403.2.1 Permitted glass, is added as follows:

2403.2.1 Permitted glass.
The following thicknesses of fully tempered glass may be used in butt-glazed, vertical fixed glass windows, when supported by two edges, without further analysis:

1. 60 inch (1524 mm) span or less - 1/4 inch thick (64 mm)
2. 80 inch (2032 mm) span or less - 5/16 inch thick (80 mm)
3. 96 inch (2438 mm) span or less - 3/8 inch thick (95 mm)

Heat strengthened glass is not allowed for butt-glazed installations.

Sec. 31-29. IBC CHAPTER 25 GYPSUM BOARD AND PLASTER – amendments.
Only the following portion of CHAPTER 25 GYPSUM BOARD AND PLASTER is amended.
2512.1.2 Weep screeds, is amended by adding the following:

Exception: Weep screeds are not required to maintain a 2 inch (51 mm) clearance where, under an overhang, a paved area that extends horizontally at least 36 inches (914 mm) from the wall to the outer edge of the overhang. The clearance shall be as large as necessary for the weep screed to perform as intended.

Sec. 31-30. IBC CHAPTER 29 PLUMBING – amendments.
Only the following portion of CHAPTER 29 PLUMBING is amended.

Note e. under Table 2902.1 MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES, is amended as follows:

Table 2902.1 MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES

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Note e. For business and mercantile occupancies 3500 sq. ft. or smaller, service sinks are not required.

Sec. 31-31. IBC CHAPTER 31 SPECIAL CONSTRUCTION – amendments.

Only the following portions of CHAPTER 31 SPECIAL CONSTRUCTION are amended.

(a) 3103.1.2 Permit required, is amended as follows:

3103.1.2 Permit required.
Temporary structures that cover an area greater than 200 square feet (18.58 m²), including connecting areas or spaces with a common means of egress or entrance which are used or intended to be used for the gathering together of 10 or more persons, shall not be erected, operated or maintained for any purpose without obtaining a permit from the building official.

(b) 3103.2 Construction documents, is amended as follows:

3103.2 Construction documents.
A permit application and construction documents shall be submitted for each installation of a temporary structure, temporary tent or other membrane structure. The construction documents shall include:

1. A site plan indicating the size and location of the temporary structure(s), handicap parking and accessible routes.
2. A floor plan showing accessible seating, exit locations, exit pathways and exit width.
3. Occupant load.
4. Information describing any electrical, mechanical and plumbing systems.

(c) 3103.6 Canopies – residential, is added as follows:

3103.6 Canopies – residential.
Canopies rented and used on private residential property are not subject to the above requirements if all the following requirements are met:

1. The canopy is not larger than 400 square feet.
2. Maximum occupant load: 26 with tables and chairs; or 57 with unfixed chairs.
3. The canopy is open on two or more sides.
4. The canopy is removed within 7 days of installation.
5. Electrical, mechanical and plumbing systems shall comply with permit and inspection requirements.
6. The canopy has flame resistance as required by the International Fire Code.
7. The canopy shall comply with city fire and zoning requirements.

(d) Section 3109 SWIMMING POOL ENCLOSURES AND SAFETY DEVICES, is deleted.

Sec. 31-32. IBC CHAPTER 33 SAFEGUARDS DURING CONSTRUCTION – amendments.
Only the following portions of CHAPTER 33 SAFEGUARDS DURING CONSTRUCTION are amended.

(a) 3303.1 Construction documents, is amended as follows:

3303.1 Construction documents and permit.
Construction documents and a schedule for demolition shall be submitted when required by the building official. When such information is required, no work shall be done until the construction documents or schedule, or both, are approved.

3303.1.1. Permit.
A demolition permit shall be obtained from the building official before beginning any demolition of a building or structure.

Exception: Demolition may be included as part of the work authorized by a building permit if no demolition begins before obtaining the building permit.

(b) The following sections are added to SECTION 3303 DEMOLITION:

3303.8 Dust, debris and excavation.
Exterior demolition work shall be kept adequately wet to minimize dust. All debris shall be removed after demolition. Any excavation remaining after debris removal shall be filled or protected as required by this code.

3303.9 Security.
Demolition sites shall be kept secured from public entry at all times.

3303.10 Asbestos.
The owner of property subject to demolition shall comply with the Maricopa County Rule 370 301.8 regarding asbestos. A copy of the notice of intent to demolish submitted to Maricopa County shall accompany the application for a demolition permit.

[Sections 31-33 – 31-39: Reserved]

DIV. 4. ADOPTION AND AMENDMENTS TO IBC: APPENDICES
Sec. 31-40. Appendices to IBC.
The following appendices are adopted:

APPENDIX G - FLOOD RESISTANT CONSTRUCTION
APPENDIX I – PATIO COVERS
APPENDIX J – GRADING

Sec. 31-41. APPENDIX G - FLOOD RESISTANT CONSTRUCTION – amendments.
Only the following portion of APPENDIX G – FLOOD RESISTANT CONSTRUCTION is amended.

G105.1 General, is amended as follows:

G105.1 General.

The Floodplain Board shall hear and decide requests for variances. The Floodplain Board shall comply with Scottsdale Revised Code, Chapter 37, Stormwater and Floodplain Management, as amended.
Sec. 31-42. APPENDIX J – GRADING – amendments.

Only the following portion of APPENDIX J – GRADING is amended.

J103.2 Exemptions, is amended to read as follows:

Sec. J103.2 Exemptions.

A grading permit shall not be required for the following:

1. Cemetery graves.
2. Refuse disposal sites controlled by other regulations.
3. Mining, quarrying, excavating, processing or stockpiling rock, sand, gravel, aggregate or clay controlled by other regulations, provided such operations do not affect the lateral support of, or significantly increase stresses in, soil on adjoining properties.
4. Exploratory excavations performed under the direction of a registered design professional.

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

[Sections 31-43 – 31-49: Reserved]

ARTICLE II. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS

DIV. 1. ADOPTED CODE

Sec. 31-50. International Residential Code for One- and Two-Family Dwellings adopted and amended.


DIV. 2. AMENDMENTS TO IRC

Sec. 31-51. IRC CHAPTER 1 - amendments.


Sec. 31-52. IRC CHAPTER 3 BUILDING PLANNING - amendments.

Only the following portions of CHAPTER 3 BUILDING PLANNING, are amended.

(a) Complete Table R301.2(1) CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA, as follows:

| Wind speed: | 90 |
| Seismic design category: | B |
| Weathering: | negligible |

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Exhibit A
Resolution 10597
<table>
<thead>
<tr>
<th>Frost line depth:</th>
<th>final grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Termite:</td>
<td>moderate to heavy</td>
</tr>
<tr>
<td>Decay:</td>
<td>none to slight</td>
</tr>
</tbody>
</table>

(b) All other headings in Table R301.2(1) CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA, are deleted.

(c) Amend Table R301.5 MINIMUM UNIFORMLY DISTRIBUTED LIVE LOADS, as follows. All other values remain unchanged.

<table>
<thead>
<tr>
<th>TABLE R301.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>MINIMUM UNIFORMLY DISTRIBUTED LIVE LOADS (In pounds per square foot)</td>
</tr>
<tr>
<td>USE</td>
</tr>
<tr>
<td>Uninhabitable attics with limited storage⁷ “i”</td>
</tr>
<tr>
<td>Sleeping rooms</td>
</tr>
</tbody>
</table>

(d) Section R303.3 Bathrooms, is amended as follows:

R303.3 Bathrooms. Bathrooms, water closet compartments and other similar rooms shall be provided with:

1. Aggregate glazed area in windows of at least 3 square feet (0.279 m2), one-half of which must be openable. However, glazed areas are not required where artificial light is provided.

2. A mechanical ventilation system, with a minimum ventilation rate of 50 cfm (23.6 L/s) for intermittent ventilation, or 20 cfm (9.4 L/s) for continuous ventilation. Ventilated air shall be exhausted directly to the outside.

Except where functioning as a component of a whole house ventilation system, exhaust fans in bathrooms with a shower or tub shall be provided with a delay timer or humidity/condensation control sensor. Exhaust fans shall be switched separately from lighting systems.

(e) Section R303.9 Required heating and cooling, is amended as follows:

R303.9 Required heating and cooling.

Dwellings shall be provided with heating per Section R303.9.1 and cooling per Section 303.9.2.

R303.9.1 Heating.
Heating facilities shall be provided, capable of maintaining room temperature at 68°F (20°C) in all habitable rooms, bathrooms and toilet rooms, based on the winter design temperature of 34°F (1°C) for Phoenix, per Appendix D of the International Plumbing Code. Cooking appliances shall not be used to provide space heating to meet the requirements of this section. 

**Exception:** Heating systems are not required for interior spaces where the primary purpose of the space is not associated with human comfort.

**R303.9.2 Cooling.**

Cooling facilities shall be provided, capable of maintaining room temperature at 85°F (29°C) in all habitable rooms, bathrooms and toilet rooms, based on the summer design temperature of 107°F (42°C) for Phoenix, per Appendix D of the International Plumbing Code.

**Exception:** Cooling systems are not required for interior spaces where the primary purpose of the space is not associated with human comfort.

(f) **R313 AUTOMATIC FIRE SPRINKLER SYSTEMS** is amended as follows:

**R313 AUTOMATIC FIRE SPRINKLER SYSTEMS.**

See Scottsdale Revised Code, Chapter 36, for automatic fire sprinkler system requirements.

(g) **R314.3 Location, is amended by adding the following:**

**R314.3 Location.**

5. In dwelling units where the ceiling height of a room open to the hallway serving the bedrooms exceeds that of the hallway by 24 inches (610 mm) or more, smoke alarms shall be installed in the hallway and in the adjacent room.

**Sec. 31-53. IRC CHAPTER 4 FOUNDATIONS - amendments.**

Only the following portions of CHAPTER 4 FOUNDATIONS, are amended.

(a) **Tables R403.1(1), 403.1(2) & 403.1(3) and Notes are revised to read as follows:**

All footings in these tables shown as 12 to 16 inches wide shall be at least 16 inches wide.

All footings in these tables shown as 17 to 24 inches wide shall be at least 24 inches wide.

All footings in these tables shown as 25 to 32 inches wide shall be at least 32 inches wide.

All footings in these tables shown as greater than 32 inches wide shall be stated or larger.

a. Maximum bearing pressure from service loads shall not exceed 1500 psf.

b. An isolated column carrying a load greater than 750 lbs. shall be supported on a minimum 4 square feet of footing, with minimum width of 24 inches.

c. A certified soils report from a registered design professional may be used in lieu of these requirements.

(b) **R403.1.4 Minimum depth, is amended as follows:**
R403.1.4 Minimum depth.
All footings shall be placed at least 18 inches (457 mm) below the undisturbed ground surface or engineered fill. Where applicable, the depth of footings shall also conform to Section R403.1.4.1.

Sec. 31-54. IRC CHAPTER 5 FLOORS - amendments.
Only the following portion of CHAPTER 5 FLOORS, is amended.
R502.11.4.1 Deferred submittals, is amended as follows:
R502.11.4.1 Deferred submittals.
Floor truss design drawings may be submitted in compliance with Section 107.3.4.1 of the IBC.

Sec. 31-55. IRC CHAPTER 8 ROOF-CEILING CONSTRUCTION - amendments.
Only the following portion of CHAPTER 8 ROOF-CEILING CONSTRUCTION, is amended.
R802.10.1.1 Deferred submittals, is amended as follows:
R802.10.1.1 Deferred submittals.
Roof truss design drawings may be submitted in compliance with Section 107.3.4.1 of the IBC.

R806.1 Ventilation, is amended by adding the following exception:
Exception: Enclosed attic and rafter spaces are not required to be ventilated where there is 24 inches or less between the bottom of roof sheathing and the ceiling.

Sec. 31-56. IRC CHAPTER 9 ROOF ASSEMBLIES - amendments.
Only the following portion of CHAPTER 9 ROOF ASSEMBLIES, is amended.
Section R905.5 Mineral-surfaced roll roofing, is revised by adding the following:
905.5.6 Drip edge.
A drip edge shall be provided at eaves and rake edges. Adjacent segments of drip edge shall overlap at least 2 inches (51 mm). Drip edges shall extend at least 1/4 inch (6.4 mm) below the roof sheathing and extend onto the roof deck at least 2 inches (51 mm). Drip edges shall be fastened to the roof deck not less than 12 inches (305 mm) on center with fasteners specified in Section R905.2.5. Underlayment shall be installed over the drip edge along eaves, and under the drip edge along rake edges.

Sec. 31-57. IRC CHAPTER 10 CHIMNEYS AND FIREPLACES - amendments.
Only the following portion of CHAPTER 10 CHIMNEYS AND FIREPLACES, is amended.
(a) R1007 CLEAN BURNING FIREPLACES, WOODSTOVES AND SOLID FUEL BURNING DEVICES is added as follows:
SECTION R1007 CLEAN BURNING FIREPLACES, WOODSTOVES AND SOLID FUEL BURNING DEVICES
R1007.1 Purpose.
This Section regulates fireplaces, woodstoves, and other solid fuel burning devices to reduce air pollution caused by particulate matter and carbon monoxide.

R1007.2 Installation restrictions.
1. Only the following fireplaces, woodstoves and solid fuel burning devices are permitted:
   1.1 A fireplace with a permanently-installed gas or electric log insert.
   1.2 A fireplace, woodstove, or solid fuel burning device certified by the United States Environmental Protection Agency as conforming to 40 Code of Federal Regulations Part 60, Subpart AAA, as amended.
   1.3 A fireplace, woodstove or solid fuel burning device listed by a nationally-recognized testing agency as meeting performance standards equivalent to 40 Code of Federal Regulations Part 60, Subpart AAA, as amended.
   1.4 A fireplace, woodstove or other solid fuel burning device determined by the Maricopa County Air Quality Department as meeting performance standards equivalent to 40 Code of Federal Regulations Part 60, Subpart AAA, as amended.
   1.5 A fireplace with a permanently-installed woodstove insert which complies with paragraph 1.2, 1.3, or 1.4 above.
2. The following are not regulated by these requirements:
   2.1 Furnaces, boilers, incinerators, kilns, and similar space-heating equipment.
   2.2 Industrial process equipment.
   2.3 Cook-stoves, barbecue grills, and similar appliances designed primarily for cooking.

R1007.3 Alterations prohibited.
1. No permanently-installed gas or electric log insert, or woodstove insert, in a fireplace, shall be altered or removed to convert the fireplace to burn wood or other solid fuel.
2. No alteration shall be made to a fireplace, woodstove or solid fuel burning device to void its certification or remove its compliance with this section.

R1007.4 Permits required.
Construction, installation and alteration of all fireplaces; woodstoves; and gas, electric and solid fuel burning devices and equipment, are subject to the requirements, permits and inspections of this code.

(b) R1008 CHIMNEYS AND FIREPLACES is added as follows:
R1008.1 Outdoor wood-burning devices.
Outdoor fireplaces, woodstoves, fire pits and other devices capable of burning wood shall be installed:
1. At least 8 feet from any property line that abuts another property; or
2. At least 10 feet from any property line in a zero lot line subdivision.
Exceptions:
1. When a property line abuts a street or alley, the setback for these devices shall comply with the Zoning Ordinance.
2. The building official may allow a smaller setback if safety standards are met.

R1008.2 Outdoor gas devices.
Outdoor fireplaces, fire pits and other devices that burn gas only shall be vented as required by IRC Chapter 24 - Fuel Gas.

R1008.3 Chimneys and flues.
Fireplaces, woodstoves, fire pits and other devices with a chimney or flue shall comply with Section R1003.9 Termination.

R1008.4 Code compliance.
1. Construction, installation and alteration of all outdoor fireplaces; woodstoves; fire pits and similar gas, electric and solid fuel burning devices and equipment, are subject to the requirements, permits and inspections of this code.
   Exception: No permit is required for the masonry surround for outdoor fireplaces; woodstoves; fire pits and similar gas, electric, and solid fuel burning devices.
2. With the permit application, a site plan shall be submitted indicating the location of the device and its proximity to the property line, alley, public right-of-way and all structures on the property.

Sec. 31-58. IRC CHAPTER 11 ENERGY EFFICIENCY - amendments.
Only the following portions of CHAPTER 11 ENERGY EFFICIENCY, are amended.
(a) Section N1102.4.1.2 (R402.4.1.2) Testing, is amended to read as follows:
   Section N1102.4.1.2 (R402.4.1.2) Testing. The building or dwelling unit shall be tested and verified as having an air leakage rate not exceeding five air changes per hour for detached dwelling units and seven air changes per hour for attached dwelling units in Climate Zones 1 and 2, and three air changes per hour in Climate Zones 3 through 8. Testing shall be conducted in accordance with ASTM E 779 or ASTM E 1827 and reported at a pressure of 0.2 inch w.g. (50 Pascals). Where required by the code official, testing shall be conducted by an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the code official. Testing shall be performed at any time after creation of all penetrations of the building thermal envelope.

(b) Section N1103.5.1.1. (R403.5.1.1) Circulation systems, is amended as follows:
   Section N1103.5.1.1 (R403.5.1.1) Circulation systems.
Heated water circulation systems shall be provided with a circulation pump. The system return shall be a dedicated return pipe or a cold water supply pipe. Gravity and thermosyphon circulation systems shall be prohibited. Controls for circulating hot water system pumps shall start the pump based on the identification of a demand for hot water within the occupancy. The controls shall:
   1. Automatically turn off the pump when the water in the circulation loop is at the desired temperature and when there is no demand for hot water.
2. Limit the temperature of the water entering the cold water piping to no hotter than 104°F (40°C).

(c) Section N1103.5.1.2 (R403.5.1.2) Circulation system piping is added as follows:

Section N1103.5.1.2 (R403.5.1.2) Circulation system piping.
Heated water circulation systems shall be provided when the length of hot water piping or tubing from the source of hot water to the furthest fixture exceeds:
1. 21 feet for a 3/4 inch line
2. 32 feet for a 5/8 inch line
3. 43 feet for a 1/2 inch line
4. 50 feet for a 3/8 inch line or less

Where the water piping or tubing length contains more than one size of pipe, the largest size shall be used for determining the maximum allowable length of pipe before a circulating hot water system is required. For the purpose of this section, the source of hot water shall be a water heater, boiler, circulation loop piping, distribution manifold, or heat-traced piping.

(d) Section N1103.5.2 (R403.5.2) Demand recirculation systems, is deleted.

(e) Section N1104.1 (R404.1) Lighting equipment (Mandatory), is amended to read as follows:

N1104.1 (R404.1) Lighting equipment (Mandatory)
A minimum of 90 percent of the permanently installed lighting fixtures shall contain only high-efficacy lamps.

Exception: Low-voltage lighting.

(f) Table N1106.4 Maximum Energy Rating Index, is amended for Climate Zone 2 as follows:

<table>
<thead>
<tr>
<th>CLIMATE ZONE</th>
<th>ENERGY RATING INDEX</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>57^1</td>
</tr>
</tbody>
</table>

^1Energy generated from on-site renewable energy shall not be included in the calculation of the Energy Rating Index value.

Sec. 31-59. IRC CHAPTER 15 EXHAUST SYSTEMS - amendments.
Only the following portions of CHAPTER 15 EXHAUST SYSTEMS, are amended.

(a) M1503.1 General, is amended by deleting the exception.

(b) M1507.2 is amended as follows:

M1507.2 Recirculation of air.
Exhaust air from bathrooms, kitchens and toilet rooms shall be exhausted directly to the outdoors, not recirculated or discharged indoors.

Sec. 31-60. IRC CHAPTER 29 WATER SUPPLY AND DISTRIBUTION – amendments.
Only the following portion of CHAPTER 15 WATER SUPPLY AND DISTRIBUTION, is amended.

IRC Table P2903.2 MAXIMUM FLOW RATES AND CONSUMPTION FOR PLUMBING FIXTURES AND FIXTURE FITTINGS, is amended as follows:

**TABLE P2903.2: MAXIMUM FLOW RATES AND CONSUMPTION FOR PLUMBING FIXTURES AND FIXTURE FITTINGS**

<table>
<thead>
<tr>
<th>PLUMBING FIXTURE OR FIXTURE FITTING</th>
<th>PLUMBING FIXTURE OR FIXTURE FITTING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lavatory faucet</td>
<td>1.5 gpm at 60 psi</td>
</tr>
<tr>
<td>Shower head*</td>
<td>2.0 gpm at 80 psi</td>
</tr>
<tr>
<td>Sink faucet</td>
<td>2.2 gpm at 60 psi</td>
</tr>
<tr>
<td>Water closet</td>
<td>1.28 gallons per flushing cycle(^c)(^d)</td>
</tr>
</tbody>
</table>

For SI: 1 gallon per minute = 3.785 L/m, 1 pound per square inch = 6.895 kPa.

a. A handheld shower spray shall be considered a shower head.

b. Consumption tolerances shall be determined from referenced standards.

c. 1.6 gallons per flushing cycle is permitted where a water closet is connected to a building's existing sanitary drainage piping.

d. For a dual-flush water closet, the effective flush volume is the composite, average flush volume of two reduced flushes and one full flush.

**Sec. 31-61. IRC CHAPTER 30 SANITARY DRAINAGE - amendments.**

Only the following portion of CHAPTER 30 SANITARY DRAINAGE, is amended.
P3009.15 Small gray systems, is added as follows:

**P3009.15 Small gray systems.**

All gray water systems shall comply with the Arizona Department of Environmental Quality requirements. A gray water system requires no percolation test. A single discharge line from a clothes washer to outdoor irrigation requires no permit.

**Sec. 31-62. IRC CHAPTER 39 POWER AND LIGHTING DISTRIBUTION - amendments.**

Only the following portion of CHAPTER 39 POWER AND LIGHTING DISTRIBUTION, is amended.

Section E3908.8 Types of equipment grounding conductors, is amended as follows:

**Section E3908.8 Types of equipment grounding conductors.**
Equipment grounding conductors shall comply with the National Electric Code as adopted and amended in Article VIII of this Chapter.

[Sections 31-63 – 31-65: Reserved]

DIV. 3. ADOPTION AND AMENDMENTS TO IRC: APPENDICES

Sec. 31-65. Appendices to IRC.
The following appendices are adopted:
APPENDIX A - SIZING AND CAPACITIES OF GAS PIPING
APPENDIX B - SIZING OF VENTING SYSTEMS SERVING APPLIANCES EQUIPPED WITH DRAFT HOODS, CATEGORY I APPLIANCES, AND APPLIANCES LISTED FOR USE WITH TYPE B VENTS
APPENDIX C - EXIT TERMINALS OF MECHANICAL DRAFT AND DIRECT-VENT VENTING SYSTEMS
APPENDIX H - PATIO COVERS
APPENDIX J - EXISTING BUILDINGS AND STRUCTURES
APPENDIX K - SOUND TRANSMISSION
APPENDIX R - LIGHT STRAW-CLAY CONSTRUCTION
APPENDIX S - STRAWBALE CONSTRUCTION
APPENDIX U - SOLAR-READY PROVISIONS—DETACHED ONE- AND TWO-FAMILY DWELLINGS, MULTIPLE SINGLE-FAMILY DWELLINGS (TOWNHOUSES)
APPENDIX AG- APPENDIX G TO THE 2012 INTERNATIONAL RESIDENTIAL BUILDING CODE – SWIMMING POOLS, SPAS AND HOT TUBS—previously made a public record by City of Scottsdale Resolution # 9257 and adopted in City of Scottsdale Ordinance # 2060

Sec. 31-66. APPENDIX H – PATIO COVERS – amendments.

APPENDIX H – PATIO COVERS is amended to add the following:

AH103.3 Fire rating.

All patio covers shall be protected with a one-hour fire-resistive wall and parapet where:
1. Combustible patio covers are less than 3 feet from the property line.
2. Non-combustible patio covers are less than 1 foot 6 inches from the property line.

Exception: Where the one-hour fire-resistive wall and parapet are required, a one-hour roof-ceiling assembly may be substituted for the parapet if:
   a. The roof-ceiling framing members are parallel to the one-hour wall, and the one-hour roof-ceiling assembly extends at least 5 feet from wall.
   b. The roof-ceiling framing members are perpendicular to the one-hour wall, and the entire span of the framing is at least one-hour fire-resistive construction.
   c. Openings in the roof are at least 5 feet from the property line.

Sec. 31-67. APPENDIX J of IBC applicable to IRC.
Appendix J – Grading, of the IBC, and the city amendments to APPENDIX J, are applicable to the IRC.

Sec. 31-68. APPENDIX AG: APPENDIX G TO THE 2012 INTERNATIONAL RESIDENTIAL BUILDING CODE – SWIMMING POOLS, SPAS AND HOT TUBS – amendments.

SECTION AG101 - GENERAL

AG101.1 General.

The provisions of this appendix shall control the design and construction of swimming pools, spas and hot tubs installed in or on the lot of a one- or two-family dwelling.

AG101.2 Pools in flood hazard areas.

Pools that are located in flood hazard areas established by Table R301.2(1), including above-ground pools, on-ground pools and in-ground pools that involve placement of fill, shall comply with Section AG101.2.1 or AG101.2.2.

Exception: Pools located in riverine flood hazard areas which are outside of designated floodways.

AG101.2.1 Pools located in designated floodways.

Where pools are located in designated floodways, documentation shall be submitted to the building official which demonstrates that the construction of the pool will not increase the design flood elevation at any point within the jurisdiction.

AG101.2.2 Pools located where floodways have not been designated.

Where pools are located where design flood elevations are specified but floodways have not been designated, the applicant shall provide a floodway analysis that demonstrates that the proposed pool will not increase the design flood elevation more than 1 foot (305 mm) at any point within the jurisdiction.

SECTION AG102 - DEFINITIONS

AG102.1 General.

For the purposes of these requirements, the terms used shall be defined as follows and as set forth in Chapter 2.

ABOVE-GROUND/ON-GROUND POOL. See "Swimming pool".

BARRIER. A fence, wall, building wall or combination thereof which completely surrounds the swimming pool and obstructs access to the swimming pool.

HOT TUB. See "Swimming pool".

IN-GROUND POOL. See "Swimming pool".

RESIDENTIAL. That which is situated on the premises of a detached one- or two-family dwelling, or a one-family townhouse not more than three stories in height.
SPA, NONPORTABLE. See "Swimming pool".

SPA, PORTABLE. A nonpermanent structure intended for recreational bathing, in which all controls, water-heating and water-circulating equipment are an integral part of the product.

SWIMMING POOL. Any structure intended for swimming or recreational bathing that contains water more than 24 inches (610 mm) deep. This includes in-ground, above-ground and on-ground swimming pools, hot tubs and spas.

SWIMMING POOL, INDOOR. A swimming pool which is totally contained within a structure and surrounded on all four sides by the walls of the enclosing structure.

SWIMMING POOL, OUTDOOR. Any swimming pool which is not an indoor pool.

SECTION AG103 - SWIMMING POOLS

AG103.1 In-ground pools.
In-ground pools shall be designed and constructed in compliance with ANSI/NSPI-5.

AG103.2 Above-ground and on-ground pools.
Above-ground and on-ground pools shall be designed and constructed in compliance with ANSI/NSPI-4.

AG103.3 Pools in flood hazard areas.
In flood hazard areas established by Table R301.2(1), pools in coastal high-hazard areas shall be designed and constructed in compliance with ASCE 24.

SECTION AG104 - SPAS AND HOT TUBS

AG104.1 Permanently installed spas and hot tubs.
Permanently installed spas and hot tubs shall be designed and constructed in compliance with ANSI/NSPI-3.

AG104.2 Portable spas and hot tubs.
Portable spas and hot tubs shall be designed and constructed in compliance with ANSI/NSPI-6.

AG105 - BARRIER REQUIREMENTS

AG105.1 Application.
The provisions of this appendix shall control the design of barriers for residential swimming pools, spas and hot tubs. These design controls are intended to provide protection against potential drownings and near-drownings by restricting access to swimming pools, spas and hot tubs.

AG105.2 Outdoor swimming pool.
An outdoor swimming pool, including an in-ground, above-ground or on-ground pool, spa or hot tub, shall be surrounded by a barrier which shall comply with the following:

1. The top of the barrier shall be at least 5 feet (1,524 mm) above grade measured on the side of the barrier which faces away from the swimming pool. The maximum vertical clearance between grade and the bottom of the barrier shall be 2 inches (51 mm) measured on the side of the barrier which faces away from the swimming pool. Where the top of the pool structure is above grade, such as an above-ground pool, the barrier may be at ground level, such as the pool structure, or mounted on top of the pool structure. Where the barrier is mounted on top of the pool structure, the maximum vertical clearance between the top of the pool structure and the bottom of the barrier shall be 4 inches (102 mm).

2. Openings in the barrier shall not allow the passage of a 4-inch-diameter (102 mm) sphere.

3. Solid barriers which do not have openings, such as a masonry or stone wall, shall not contain indentations or protrusions, except for normal construction tolerances and tooled masonry joints.

4. Where the barrier is composed of horizontal and vertical members, and the distance between the tops of the horizontal members is less than 45 inches (1,143 mm), the horizontal members shall be located on the swimming pool side of the fence. Spacing between vertical members shall not exceed 1¾ inches (44 mm) in width. Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 1¾ inches (44 mm) in width.

5. Where the barrier is composed of horizontal and vertical members, and the distance between the tops of the horizontal members is 45 inches (1,143 mm) or more, spacing between vertical members shall not exceed 4 inches (102 mm). Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 1¾ inches (44 mm) in width.

6. Maximum mesh size for chain link fences shall be a 2¾ inch (57 mm) square, unless the fence has slats fastened at the top or the bottom which reduce the openings to not more than 1¾ inches (44 mm).

7. Where the barrier is composed of diagonal members, such as a lattice fence, the maximum opening formed by the diagonal members shall not be more than 1¾ inches (44 mm).

8. Access gates shall comply with the requirements of Items 1 through 7 above, and shall be equipped to accommodate a locking device. Pedestrian access gates shall open outward away from the pool, and shall be self-closing and have a self-latching device. Gates, other than pedestrian access gates, shall have a self-latching device. Where the release mechanism of the self-latching device is located less than 54
inches (1,372 mm) from the bottom of the gate, the release mechanism and openings shall comply with the following:

8.1. The release mechanism shall be located on the pool side of the gate at least 3 inches (76 mm) below the top of the gate; and

8.2. The gate and barrier shall have no opening larger than ½ inch (12.7 mm) within 18 inches (457 mm) of the release mechanism.

9. Where a wall of a dwelling serves as part of the barrier, one of the following conditions shall be met:

9.1. The pool shall be equipped with a powered safety cover in compliance with ASTM F 1346;

9.2. Doors with direct access to the pool through that wall shall be equipped with an alarm which produces an audible warning when the door and/or its screen, if present, are opened. The alarm shall be listed and labeled in accordance with UL 2017. The alarm shall:

9.2.1 Activate within 7 seconds and sound continuously for a minimum of 30 seconds.

9.2.2 Be heard throughout the house during normal household activities with a sound pressure level of not less than 85 dba when measured indoors at 10 feet (3,048 mm).

9.2.3 Reset automatically reset under all conditions.

9.2.4 Repeat 9.2.1, 9.2.2 and 9.2.3 until the door, and/or its screen, if present, are closed.

9.2.5 Be equipped with a manual means, such as touchpad or switch located 54 inches (1,372 mm) or more above the threshold of the door, to temporarily deactivate the alarm for a single opening. Such deactivation shall last for not more than 15 seconds. Doors that remain open after 15 seconds shall activate the alarm as outlined in 9.2.4.

9.2.6 Not be equipped with an on/off switch of any type other than the temporary deactivation switch.

9.3. Other means of protection, such as self-closing doors with self-latching devices, which are approved by the building official, shall be acceptable as long as the degree of protection afforded is not less than the protection afforded by Item 9.1 or 9.2 described herein.

10. Where an above-ground pool structure is used as a barrier or where the barrier is mounted on top of the pool structure, and the means of access is a ladder or steps:
10.1. The ladder or steps shall be capable of being secured, locked or removed to prevent access; or

10.2. The ladder or steps shall be surrounded by a barrier which meets the requirements of Items 1 through 9 above. When the ladder or steps are secured, locked or removed, any opening created shall not allow the passage of a 4-inch-diameter (102 mm) sphere.

AG105.3 Indoor swimming pool.
Walls surrounding an indoor swimming pool shall comply with Item 9 of Section AG105.2.

AG105.4 Prohibited locations.
Barriers shall be located to prohibit permanent structures, equipment or similar objects from being used to climb them.

AG105.5 Barrier exceptions.
Spas or hot tubs with a safety cover which comply with ASTM F 1346 shall be exempt from the provisions of this appendix.

SECTION AG106 - ENTRAPMENT PROTECTION FOR SWIMMING POOL AND SPA SUCTION OUTLETS

AG106.1 General.
Suction outlets shall be designed and installed in accordance with ANSI/APSP-7.

SECTION AG107 - NOTIFICATIONS

AG107.1 Barrier requirements notification - pool contractor.
Before constructing a new swimming pool, spa or hot tub, the pool contractor shall give the pool owner written notice of the above barrier requirements. Failure to provide this notice shall be enforced in accordance with Section 31-33 of the Scottsdale Revised Code.

AG107.2. Safety notification.
Any person, firm or corporation, on entering into an agreement to sell or rent a dwelling with access to any swimming pool, spa or hot tub, shall give the buyer or renter written notice explaining pool, spa or hot tub safety and the responsibilities of pool, spa and hot tub use and ownership. Failure to provide this notice shall be enforced in accordance with Section 31-33 of the Scottsdale Revised Code.

SECTION AG108 - MAINTENANCE

AG108.1 Maintenance of barrier.
The owner and person, firm or corporation in possession of a swimming pool, spa or hot tub, shall keep the required barrier(s), including all gates, fencing, doors, locks, alarms, and latches in safe and good working order at all times. No person shall alter or remove any
portion of a swimming pool barrier except to repair, reconstruct, or replace the barrier in compliance with the provisions of this chapter. Any barrier removed shall be promptly replaced.

**AG108.2 Public nuisance.**

Any swimming pool, spa or hot tub safety barrier(s) not maintained to the minimum requirements by the code under which the barrier(s) was installed is hereby declared to be unsafe and a public nuisance. In addition to enforcement under this chapter, violations of this section may be enforced in accordance with Chapter 18 of the Scottsdale Revised Code.

**SECTION AG109 - ABBREVIATIONS**

**AG109.1 General.**

ANSI—American National Standards Institute  
11 West 42nd Street  
New York, NY 10036

APSP—Association of Pool and Spa Professionals  
NSPI—National Spa and Pool Institute  
2111 Eisenhower Avenue  
Alexandria, VA 22314

ASCE—American Society of Civil Engineers  
1801 Alexander Bell Drive  
Reston, VA 98411-0700

ASTM—ASTM International  
100 Barr Harbor Drive  
West Conshohocken, PA 19428

UL—Underwriters Laboratories, Inc.  
333 Pfingsten Road  
Northbrook, IL 60062-2096

**SECTION AG110 - REFERENCED STANDARDS**

**AG110.1 General.**

ANSI/NSP

ANSI/NSPI-3 - 99 Standard for Permanently Installed Residential Spas - AG104.1

ANSI/NSPI-4 - 99 Standard for Above-ground/On-ground Residential Swimming Pools - AG103.2

ANSI/NSPI-5 - 03 Standard for Residential In-ground Swimming Pools - AG103.1
ANSI/NSPI-6 - 99 Standard for Residential Portable Spas - AG104.2

ANSI/APSP

ANSI/APSP-7 - 06 Standard for Suction Entrapment Avoidance in Swimming Pools, Wading Pools, Spas, Hot Tubs and Catch Basins - AG106.1

ASCE

ASCE/SEI-24 - 05 Flood-resistant Design and Construction - AG103.3

ASTM


UL

UL 2017 - 2000 Standard for General-purpose Signaling Devices and Systems—with revisions through June 2004 - AG105.2

[Section 31-69: Reserved]
ART. III. NATIONAL ELECTRICAL CODE AND SCOTTSDALE AMENDMENTS

Section 31-70. Adoption of National Electrical Code.

Sec. 31-71. NEC relationship to IBC.

Sec. 31-72. NEC Chapter 2 WIRING AND PROTECTION – amendments.
(a) ARTICLE 230 SERVICES, is amended by adding 230.63 as follows:

230.63 Location.
All service equipment rated 800 amperes or more located inside a building shall be enclosed within a room or space separated from the rest of the building by at least one-hour fire-resistant occupancy separation.

(b) Subsections (2), (3), (4), (5), (6) and (7) of 250.118 Types of Equipment Grounding Conductors, are amended as follows, and paragraph d. of subsection (5) is deleted:

250.118 Types of Equipment Grounding Conductors.
(2) Rigid metal conduit, with an individual equipment grounding conductor.
(3) Intermediate metal conduit, with an individual equipment grounding conductor.
(4) Electrical metallic tubing, with an individual equipment grounding conductor.
(5) Listed flexible metal conduit (with an individual equipment grounding conductor) meeting all of the following conditions:
   a. The conduit is terminated in listed fittings.
   b. The circuit conductors contained in the conduit are protected by overcurrent devices rated at 20 amperes or less.
   c. The combined length of flexible metal conduit and flexible metal tubing and liquid-tight flexible metal conduit in the same ground-fault current path does not exceed 1.8 m (6 ft).
(6) Listed liquid-tight flexible metal conduit (with an individual equipment grounding conductor) meeting all of the following conditions:
   a. The conduit is terminated in listed fittings.
   b. For metric designators 12 through 16 (trade sizes 3/8 through ½), the circuit conductors contained in the conduit are protected by overcurrent devices rated at 20 amperes or less.
   c. For metric designators 21 through 35 (trade sizes ¾ through 1 1/4), the circuit conductors contained in the conduit are protected by overcurrent devices rated not
more than 60 amperes and there is no flexible metal conduit in the same ground-fault path.
d. The combined length of flexible metal conduit and flexible metal tubing and liquidtight
flexible metal conduit in the same ground-fault current path does not exceed 1.8 m (6 ft).
e. If used to connect equipment where flexibility is necessary to minimize the
transmission of vibration from equipment or to provide flexibility for equipment that
requires movement after installation, an equipment grounding conductor shall be
installed.
(7) Flexible metallic tubing, with an individual equipment grounding conductor, where the
tubing is terminated in listed fittings and meeting the following conditions.
a. The circuit conductors contained in the tubing are protected by overcurrent devices
rated at 20 amperes or less.
b. The combined length of flexible metal conduit and flexible metal tubing and liquid-tight
flexible metal conduit in the same ground-fault current path does not exceed 1.8 m (6 ft).

Sec. 31-73. NEC Chapter 3 WIRING METHODS AND MATERIALS – amendments.
(a) 358.10 Uses Permitted, is amended by deleting subsection (B).

(b) 358.12 Uses Not Permitted, is amended by adding the following:
(7) In concrete, in the earth, or in areas subject to severe corrosive influences.

Sec. 31-74. NEC Chapter 8 COMMUNICATIONS SYSTEMS – amendments.
Article 810 Radio and Television Equipment, is amended by adding the following:
V. Public Safety Radio Amplification Systems.
810-80 Radio Coverage.
Except as otherwise provided, each non-residential and multifamily building and structure
shall support the city’s public safety radio communications. The frequency ranges required
to support public safety radio communications shall be 769MHz to 775MHz and 799MHz to
805MHz. Within sixty (60) days of the Federal Communications Commission (FCC) action
regarding other frequencies, the property owner, at its cost, shall modify the system if the
FCC requires or makes available other frequencies.
The minimum standards are:
(1) Radio signal strength of -95 decibel milliwatts in 95% of the area of each floor of the
building when transmitting to and from the city’s public safety communications system.
(2) Average delivered audio quality (DAQ) rating of three (3) for signal strength and
intelligibility, as determined by city, in 95% of the area of each floor of the building when
transmitting to and from the city’s public safety communications system.
(3) 95% reliability.
(4) 100% coverage at the minimum levels set forth in 810-80 (1) and (2) above, in all stairwells, stairways, and designated emergency ingress and egress paths. Before a certificate of occupancy is issued, the applicant shall provide evidence, to the building official's satisfaction, of compliance with this division V of ARTICLE 810.

810-81 Signal Quality.
The signal strength and intelligibility rating scales are:
Signal strength:
0 - no detectable signal
1 - barely detectable
2 - detectable with difficulty
3 - detectable at all times
4 - strong signal, detectable at all times
Intelligibility:
0 - unintelligible
1 - intelligible with extreme difficulty (many repetitions required)
2 - intelligible with difficulty (repetition required)
3 - intelligible (repetition seldom required)
4 - intelligible at all times

810-82 Amplification Systems.
Buildings and structures which cannot meet the minimum standards for the city's public safety communications shall be equipped with an FCC-certified amplification system, including a radiating cable system or an internal distributed antenna system, to meet the minimum standards.
(1) All active in-building coverage devices shall be FCC-certified Part 90 Type.
(2) All system components shall be 100% compatible with analog and digital modulation after installation without additional adjustments or modifications.
(3) The signal booster shall include filters to reject frequencies below and above the public safety bands by a minimum of 35dB.
(4) The propagation delay of any in-building amplification system shall not exceed 15 microseconds. The delay value includes the cumulative delays in signal boosters, coaxial cables, fiber optics, etc. used within the in-building system.
(5) Outside-to-inside antenna isolation (loss) shall be at least 16dB more than the highest gain reading of the boosted inside signal.
(6) Active system devices shall be encased in NEMA 4 dust/waterproof case and clearly labeled "City of Scottsdale Public Safety Radio".
(7) If the system includes an externally-powered component, the system shall be able to operate independently on a battery or generator for at least four (4) hours without external power. The battery system shall automatically charge from the external power.

810-83 Testing Procedures.
(A) Initial Tests. The property owner, at its cost, may have the building tested for radio coverage by a BDA equipment manufacturer certified technician or an FCC licensed technician. The property owner shall submit the test results and documentation in the format required by the city to the city’s radio communications office.

(B) Testing Procedure for Certificate of Occupancy. The city radio communications staff shall perform tests after all windows, building cladding, and drywall have been installed on all floor levels. Each floor of the building may be divided into a grid of approximately 40 equal areas. The tester shall communicate through the city’s public safety communications system, using a city public safety portable radio.

The tester shall select a spot located approximately in the center of the grid and key the radio to verify two-way communications with the city’s radio communications system. Once a spot is selected, prospecting for a better spot within the grid area is not permitted. Only two non-adjacent areas may fail the test.

If three (3) areas fail the test, the floor may be divided into 80 equal areas; only four (4) non-adjacent areas may fail the test. If the floor fails the 80 equal areas test, the property owner shall bring the area into compliance before contacting the city’s radio communications office for retesting.

The results of testing shall be documented in detail that demonstrates that the building or structure is in compliance with the standards set forth in section 810-80.

(C) Annual Tests. Upon providing five (5) days written notice to the property owner or the property owner’s representative, city staff may enter the property, buildings and structures, at reasonable times, to test radio signal quality and coverage.

(D) Radio Signal Strength Test Equipment. Signal strength tests shall be performed using a calibrated spectrum analyzer test set utilizing an omni-directional antenna with minimal gain. The resolution bandwidth shall be set to 10KHz.

(E) Delivered Audio Quality Test Set. All tests shall be performed with the radio unit antenna at a height of four (4) feet above the floor or ground.

(F) Buildings Failing Annual Test. If a building fails the annual test, the property owner shall bring the building into compliance with the standards set forth in section 810-80 within sixty (60) days of receiving the test results.

810-84 Waivers.
The city may waive the requirements of division V of ARTICLE 810 for buildings which do not have below grade spaces or parking. The waiver request shall be in writing and submitted to the building official before a certificate of occupancy is issued.

810-85 As-Built Plans; Building Frequencies.
(A) As-Built Plans. The property owner shall provide the city’s radio communications office a set of as-built drawings of the amplification system. The plans shall be provided in the format required by the city and include: the location of all amplification equipment, the manufacturer and model of the equipment, the routes of all cabling, the location of all antennas, all electrical circuits serving the amplification system, and additional information requested by the city.

(B) Building Frequencies. Upon request from the city, the property owner shall give the city a list of the radio frequencies used at the building and property.

810-86 Communications Affected by New Building or Structure.
Where a new building or structure causes an existing building or structure that was in compliance with section 810-80 to fall out of compliance, and both the new and existing building or structure are owned by the same property owner, the property owner, at its cost, shall bring the existing building or structure into compliance with the standards set forth in section 810-80 within sixty (60) days of the city’s written notice to do so.

810-87 Access to Install Amplification Equipment. The building official may deem a newly constructed or modified building or structure to cause an existing building or structure previously in compliance with communication requirements to be out of compliance. If so, the property owner of the newly constructed or modified building or structure shall allow the city to install a public safety radio amplification system on or within the building, structure or property, to bring the non-complying structure into compliance with communication requirements, without compensation to the property owner.

810-88 Public Safety Communications Interference. No person shall install, operate, or allow the use of equipment, methodology or technology that interferes or is likely to interfere with the optimum effective use or operation of the city’s public safety communications system. If such interference occurs, use of the equipment, methodology or technology that causes the interference shall cease immediately until corrective measures are taken to eliminate such interference. Any such corrective measures shall be made at no cost to the city.

[Sections 31-75-31-79: Reserved]

ARTICLE IV. INTERNATIONAL PLUMBING CODE
Sec. 31-80. Adoption of International Plumbing Code.

Sec. 31-81. IPC CHAPTER 1 SCOPE AND ADMINISTRATION - amendments.  
Only the following portions of CHAPTER 1 SCOPE AND ADMINISTRATION are amended.
(a) [A] Title, is amended as follows:
101.1 Title.
These regulations shall be known as the Plumbing Code of the City of Scottsdale, hereinafter referred to as “this code”.


Sec. 31-82. IPC CHAPTER 3 GENERAL REGULATIONS - amendments.  
Only the following portion of CHAPTER 3 GENERAL REGULATIONS is amended:

(a) 305.4.1 Sewer depth, is amended as follows:
305.4.1 Sewer depth.
Building sewers that connect to private sewage disposal systems shall meet the requirements of the Maricopa County Environmental Services Department. Building sewers shall be installed at least 12 inches (305 mm) below finished grade.

Sec. 31-83. IPC CHAPTER 4 FIXTURES, FAUCETS AND FIXTURE FITTINGS - amendments.  
Only the following portions of CHAPTER 4 FIXTURES, FAUCETS AND FIXTURE FITTINGS are amended.
(a) 417.4 Shower compartments, is amended by adding the following:

Section 417.4.3 Trench drains
Any shower compartment built without a threshold shall have a trough drain installed at the threshold to stop water from leaving the shower compartment. The trench drain shall connect to the drainage system at the shower tailpiece between the drain inlet and the trap.

(b) 419.1 Approval, is amended by adding the following:

419.1 Approval.
Waterless urinals shall have a water supply provided at all urinal rough-ins.

Sec. 31-84. IPC CHAPTER 6 WATER SUPPLY AND DISTRIBUTION - amendments.  
Only the following portions of CHAPTER 6 WATER SUPPLY AND DISTRIBUTION are amended.

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Page 44 of 69  
Exhibit A  
Resolution 10597
(a) 603.1 Size of water service pipe, is amended as follows:

603.1 Size of water service pipe.
The water service pipe shall be sized to supply water to the structure in the quantities and at the pressures required in this code. The water service pipe shall be at least 1 inch (25 mm) inside diameter. Replaced water service pipes shall be at least the same size as the pipe being replaced. In single-family dwellings where the total square footage under roof exceeds 12,000 square feet, the meter size shall be at least 1 1/2 inches (38 mm), and the supply pipe from the meter to the building shall be at least 2 inch (50mm) inside diameter.

(b) Table 604.4 Maximum Flow Rates AND Consumption for Plumbing Fixtures & Fixture Fittings, is amended as follows:

<table>
<thead>
<tr>
<th>PLUMBING FIXTURE OR FITTING FIXTURE</th>
<th>MAXIMUM FLOW RATE OR QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lavatory, private</td>
<td>1.5 gpm at 60 psi</td>
</tr>
<tr>
<td>Lavatory, public (metering)</td>
<td>0.25 gallon per metering cycle</td>
</tr>
<tr>
<td>Lavatory, public (other than metering)</td>
<td>0.5 gpm at 60 psi</td>
</tr>
<tr>
<td>Shower head(^a)</td>
<td>2.0 gpm at 80 psi</td>
</tr>
<tr>
<td>Sink faucet</td>
<td>2.2 gpm at 60 psi</td>
</tr>
<tr>
<td>Urinal</td>
<td>0.5 gallon per flushing cycle</td>
</tr>
<tr>
<td>Water closet</td>
<td>1.28 gallons per flushing cycle(^c,d)</td>
</tr>
</tbody>
</table>

For SI: 1 gallon = 3.785 L, 1 gallon per minute = 3.785 L/min.
1 pound per square inch = 6.895 kPa.
a. A hand-held shower spray is a shower head.
b. Consumption tolerances shall be determined from referenced standards.
c. A 1.6 gallon per flushing cycle is permitted where a water closet is connected to a building’s existing sanitary drainage piping.
d. For a dual-flush water closet, the effective flush volume is the composite, average flush volume of two reduced flushes and one full flush.

Sec. 31-85. IPC Chapter 10 TRAPS, INTERCEPTORS AND SEPARATORS - amendments.
Only the following portions of CHAPTER 10 TRAPS, INTERCEPTORS AND SEPARATORS of the IPC are amended.

(a) 1003.0 Domestic wastewater, and 1003.0.1 Wastewater temperature, are added as follows:

1003.0 Domestic wastewater.
Domestic wastewater shall not be discharged to an interceptor.
1003.0.1 Wastewater temperature.
Discharge of wastewater with temperatures in excess of 140 degrees F. or pH of less than 5.0 to any interceptor or separator is prohibited.

(b) 1003.1 Where required, is amended as follows:

1003.1 Where required.
Interceptors and separators shall be provided to prevent the discharge of oil, grease, sand and other substances harmful or hazardous to the building drainage system, the public sewer, the private sewage disposal system or the sewage treatment plant or processes. Interceptors and separators shall be installed:

1. At new facilities.
2. At an existing facility not equipped with an interceptor or separator, for additions, alterations or remodeling.
3. At an existing facility not equipped with an interceptor or separator, which has caused a blockage or is contributing to fats, oil or grease build-up in the city sewer system.

When an existing facility is equipped with an interceptor or separator and additions, alterations or remodeling will increase volume to the interceptor or separator, the interceptor or separator shall be sized for the new volume.

1003.1.1 Use.
An interceptor or separator shall be single-user only.

(c) 1003.3.1 Grease interceptors and automatic grease removal devices required, is amended as follows:

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 service/mop sinks, pot sinks, prerinse sinks; soup kettles or similar devices; work stations; floor drains or sinks into which kettles are drained; automatic hood wash units and dishwashers without prerinse sinks. 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.

(d) 1003.3.4 Hydromechanical grease interceptors, fats, oils and greases disposal systems and automatic grease removal devices, is amended as follows:

1003.3.4 Hydromechanical grease interceptors, fats, oils and greases disposal systems and automatic grease removal devices.
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 grease removal devices shall be installed in compliance with ASME A112.14.3, ASME 112.14.4, 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 Appendix A, ASME 112.14.4, CSA B481.3 or PDI G101.

1003.3.4.1 Grease interceptor (trap) capacity.
Grease interceptors shall have the grease retention capacity indicated in Table 1003.3.4.1 for the flow-through rates calculated using the following formula:

Total dfu’s (as determined by IPC Section 709) x 3gpm (flow rate).

<table>
<thead>
<tr>
<th>TABLE 1003.3.4.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAPACITY OF GREASE INTERCEPTOR (TRAP)</td>
</tr>
<tr>
<td>TOTAL FLOW-THROUGH RATING (gpm)</td>
</tr>
<tr>
<td>25</td>
</tr>
<tr>
<td>35</td>
</tr>
<tr>
<td>50</td>
</tr>
<tr>
<td>75</td>
</tr>
<tr>
<td>100</td>
</tr>
</tbody>
</table>

(e) 1003.3.6 Gravity grease interceptors and gravity grease interceptors with fats, oils, and greases disposal systems, is amended as follows:

1003.3.6 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, oil and grease disposal systems shall be sized in accordance with the following formula:

Total dfu’s x 3gpm (flow rate) x retention time.

Retention time minimum:
12 minutes for systems without garbage disposal.
17 minutes for systems with garbage disposal.
SECTION 1005 MAINTENANCE

1005.1 Cleaning and maintenance.
Cleaning and maintenance shall be performed when the:
1. Total volume of captured fats, oil, grease and solids displaces more than 25 percent of the total volume of the interceptor or separator.
2. pH of a sample taken from the interceptor effluent is below 5.0.
3. Odor becomes a health issue or nuisance.
4. City determines a cleaning is necessary.

1005.1.1 Immediate action required.
When atmospheric hydrogen sulfide levels are "Immediately Dangerous to Life and Health" (Occupational, Safety and Health Administration level of 100 ppm or above), immediate action shall be taken to return hydrogen sulfide to safe levels. If the hydrogen sulfide level cannot be immediately resolved, all use of the interceptor shall cease until the level becomes safe.

1005.2 Maintenance logs.
All interceptors and separators shall be maintained by the facility in efficient operating condition at all times. Written logs of all cleaning, repair, calibration, and maintenance shall be maintained at the facility for a minimum of three (3) years. The city shall have access to such logs upon request.

1005.3 Maintenance inspection.
All interceptors and separators are subject to city inspection.

1005.4 Skimming.
Skimming, decanting or discharging removed waste or wastewater back into any interceptor and separator, or into any part of the wastewater collection system, is strictly prohibited.

1005.5 Complete cleaning frequency.
All fats, oil, grease and sand interceptors with a capacity greater than 100gpm/200 pounds shall be completely cleaned at least once every 90 calendar days. Interceptors with a capacity of 100gpm/200 pounds or less shall be completely cleaned at least once every 30 calendar days. Interceptors shall be cleaned more frequently when necessary or required by the city. Complete cleaning shall be by a licensed contractor.

Exception: A person owning or operating an interceptor with a capacity no larger than 50gpm/100 pounds may petition the city water department, in writing, to modify the 30-day cleaning schedule. If approved, the maximum cleaning frequency shall not be greater than 90 days.
Documentation of the interceptor is required before granting any modification. The cleaning frequency modification shall be revoked if an inspection indicates that the interceptor has fallen out of compliance.

1005.6 Self-cleaning operator.
Facilities with interceptors (traps) with capacities shown in Table 1003.3.4.1 may request approval as an interceptor self-cleaning operator. Self-cleaning shall not be done before approval. Approved self-cleaning operators shall:
1. Use approved on-site material disposal methods.
2. Place interceptor waste in a leak-proof, sealable container.
3. Maintain detailed logs with the following information:
   a. Dates of cleaning, not less than every thirty (30) days;
   b. Amount of fats, oil and grease (in gallons) removed and disposed of;
   c. Waste disposal method used;
   d. Certification that the interceptor was completely cleaned, and all parts were in operable condition; and
   e. Name and signature of the person doing the cleaning.

1005.7 Self-cleaning operator revocation.
Self-cleaning operator approval shall be revoked if an inspection indicates that the self-cleaning operator is not in compliance with this section. Upon revocation, the facility shall contract with a Maricopa County-licensed hauler to immediately clean out the interceptor and bring it into compliance with this chapter.

1005.8 Periodic inspection.
All interceptors and separators are subject to city inspections.

(g) SECTION 1006 ENFORCEMENT is added to CHAPTER 10 TRAPS, INTERCEPTORS AND SEPARATORS as follows:

SECTION 1006 ENFORCEMENT

1006.1 Discharge permit.
The city may require a discharge permit to supplement enforcement of this code and other city codes, policies and regulations.

1006.2 Minimization program.
All facilities required to install an interceptor or separator shall use best management practices on a daily basis to minimize the discharge of fats, oil, grease and solids entering the interceptor or separator and the city sewer system.

1006.3 Training.
All facilities required to have an interceptor or separator shall train employees in maintaining the interceptor and separator to minimize the discharge of fats, oil, grease and solids entering the interceptor or separator and the city sewer system.

1006.4 Special enforcement action.
1. The following facilities are subject to special enforcement action:
a. A facility where an interceptor or separator has more than one (1) violation in a 90 day period.
b. A facility that causes multiple problems in the city sewer system.
c. A facility that causes an obstruction of a city sewer because of an overburdened or poorly maintained interceptor.

2. The special enforcement action may result in:
   a. Penalties under this code and other chapters of the Scottsdale Revised Code.
   b. City or other corrective action and associated costs.
   c. Discontinued sewer service.
   d. Other remedies as provided by law.

1006.5 Owner responsible.
If the city cleans up a sanitary sewer overflow caused by a blockage on private property, the property owner is responsible for the cost of the cleanup.

1006.6 Repairs or replacements.
When repairs or replacements are necessary to an interceptor or separator, all repairs or replacements shall be completed within the time frame stated on the notice to comply. The city may authorize a time extension, not to exceed 30 days, for justifiable cause.

Sec. 31-86. IPC Chapter 11 STORM DRAINAGE - amendments.
Only the following portions of CHAPTER 11 STORM DRAINAGE of the IPC are amended.

(a) 1106.5 Parapet wall scupper location, is revised as follows:

1106.5 Parapet wall scupper location.
Parapet wall roof drainage scupper and overflow scupper location shall comply with the requirements of Section 1503.4 of the International Building Code. Roof drainage scuppers and overflow scuppers shall not be located horizontally within three (3) feet of any electric meter, electric panel or gas meter.

(b) SECTION 1109 COMBINED SANITARY AND STORM SYSTEMS, is deleted.

Sec. 31-87. IPC Chapter 12 SPECIAL PIPING AND STORAGE SYSTEMS - amendments.
Only the following portion of CHAPTER 12 SPECIAL PIPING AND STORAGE SYSTEMS, is amended.

The following section is added after Section 1201.1:
Section 1201.1.1 Special inspections.
Special inspections are required for medical gas and oxygen system installations.

[Sections 31-88- 31-89: Reserved]

ARTICLE V. INTERNATIONAL MECHANICAL CODE
Sec. 31-90. Adoption of International Mechanical Code.
Sec. 31-91. IMC CHAPTER 1 SCOPE AND ADMINISTRATION - amendments.
Only the following portions of CHAPTER 1 SCOPE AND ADMINISTRATION are amended.
(a) [A] Title, is amended as follows:

101.1 Title.

These regulations shall be known as the Mechanical Code of the City of Scottsdale, hereinafter referred to as “this code.”


Sec. 31-92. IMC CHAPTER 3 GENERAL REGULATIONS - amendments.
Only the following portions of CHAPTER 3 GENERAL REGULATIONS are amended.
(a) The exception below is added under 5 to 303.3 Prohibited locations:

303.3 Prohibited locations.

6. Any room operating under negative pressure.

(b) The exception to 304.3 Elevation of ignition source, is amended as follows:

304.3 Elevation of ignition source.

Exceptions: Elevation of the ignition source is not required for:

1. Appliances that are listed as flammable vapor ignition resistant.
2. Clothes dryers installed in private garages.

Sec. 31-93. IMC CHAPTER 5 EXHAUST SYSTEMS – amendments.
Only the following provision of CHAPTER 5 EXHAUST SYSTEMS is amended:
Section 505.1, Domestic systems, is amended by deleting exception 1. The remainder of section 505.1 shall remain as in the IMC.

Sec. 31-94. IMC CHAPTER 6 DUCT SYSTEMS - amendments.
Only the following portions of CHAPTER 6 DUCT SYSTEMS are amended.
(a) 603.18 Registers, grilles and diffusers, is amended by adding the following sentence:

603.18 Registers, grilles and diffusers.

Registers, grilles and diffusers shall be mechanically fastened to rigid supports or structural members on at least two opposite sides in addition to being connected to the ductwork they serve.

[BF] 607.3.3.2 Smoke damper actuation.
The smoke damper shall close upon actuation of a listed smoke detector or detectors installed in accordance with the International Fire Code and one of the following methods, as applicable:

Sec. 31-95. IMC CHAPTER 9 SPECIFIC APPLIANCES, FIREPLACES AND SOLID FUEL-BURNING EQUIPMENT - amendments.
Only the following portion of CHAPTER 9 SPECIFIC APPLIANCES, FIREPLACES AND SOLID FUEL-BURNING EQUIPMENT is amended.

928.1 General, is amended by adding 6 as follows:

6. Have a recirculating water pump system. A maximum of 1.5 gallons per hour per 1,000 cfm of bleed-off water may be discharged to prevent the buildup of sediment. This requirement shall apply to new or replacement evaporative cooling equipment.

[Sections 31-96 - 31-99: Reserved]

ARTICLE VI. INTERNATIONAL FUEL GAS CODE
Sec. 31-100. Adoption of International Fuel Gas Code.

Sec. 31-101. IFGC CHAPTER 1 SCOPE AND ADMINISTRATION - amendments.
Only the following portions of CHAPTER 1 SCOPE AND ADMINISTRATION, are amended.

(a) [A] Title, is amended as follows:

101.1 Title.

These regulations shall be known as the Fuel Gas Code of the City of Scottsdale, hereinafter referred to as “this code.”


Sec. 31-102. IFGC CHAPTER 5 CHIMNEYS AND VENTS - amendments.
Only the following portion of CHAPTER 5 CHIMNEYS AND VENTS is amended.

503.6.4 Gas vent terminations, is amended, by adding the following exception under 1:

503.6.4 Gas vent terminations.
Exception: For one- and two-family dwellings with roof slopes of flat to 6/12, Type B or BW gas vents 8 inches (204 mm) in size or smaller, and located at least 4 feet (1219 mm) from a vertical wall or similar obstruction, shall terminate at least 12 inches (305 mm) above the roof.
Sec. 31-103. IFGC Appendices.
Only the following appendices of the IFGC are adopted:
1. Appendix A – Sizing And Capacities Of Gas Piping
2. Appendix B – Sizing Of Venting Systems Serving Appliances Equipped With Draft Hoods, Category I Appliances And Appliances Listed For Use With Type B Vents

[Sections 31-104- 31-109: Reserved]

ARTICLE VII. INTERNATIONAL ENERGY CONSERVATION CODE

Sec. 31-111. IECC Amendments – Chapter 4 (Commercial). Only the following portions of CHAPTER 4 COMMERCIAL ENERGY EFFICIENCY of the IECC are amended.

(a) Section C401.2 Application, is amended by substituting the following for subsection 3:

C401.2 Application
3. The requirements of Section C402.5, C403.2, C404, C405.2, C405.3, C405.5, C405.6 and C407. The building energy cost shall be equal to or less than 85 percent of the standard reference design building.

(b) Section C407.3 is amended to read as follows:

C407.3 Performance-based compliance.
Compliance based on total building performance requires that a proposed building (proposed design) be shown to have an annual energy cost that is less than or equal to 85 percent of the annual energy cost of the standard reference design. Energy prices shall be taken from a source approved by the code official, such as the Department of Energy Information Administration’s State Energy Price and Expenditure Report. Code officials shall be permitted to require time-of-use pricing in energy cost calculations. Nondepletable energy collected off site shall be treated and priced the same as purchased energy.

Exception: Jurisdictions that require site energy (1 kWh = 3413 Btu) rather than energy cost as the metric of comparison.

Sec. 31-112. IECC Amendments – Chapter 4 (Residential).
Only the following portions of CHAPTER 4 RESIDENTIAL ENERGY EFFICIENCY of the IECC are amended.

(a) Section R402.4.1.2 Testing, is amended to read as follows:

R402.4.1.2 Testing. The building or dwelling unit shall be tested and verified as having an air leakage rate not exceeding five air changes per hour for detached dwelling units and seven air changes per hour for attached dwelling units in Climate Zones 1 and 2, and three air changes per hour in Climate Zones 3 through 8. Testing shall be conducted in
according with ASTM E 779 or ASTM E 1827 and reported at a pressure of 0.2 inch w.g. (50 Pascals). Where required by the code official, testing shall be conducted by an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the code official. Testing shall be performed at any time after creation of all penetrations of the building thermal envelope.

(b) *Section R403.5.1.1 Circulation systems, is amended to read as follows:*

R403.5.1.1 Circulation systems

Heated water circulation systems shall be provided with a circulation pump. The system return shall be a dedicated return pipe or a cold water supply pipe. Gravity and thermosyphon circulation systems shall be prohibited. Controls for circulating hot water system pumps shall start the pump based on the identification of a demand for hot water within the occupancy. The controls shall automatically turn off the pump when the water in the circulation loop is at the desired temperature and when there is no demand for hot water. Heated water circulation systems shall be provided when the length of hot water piping or tubing from the source of hot water to the furthest fixture exceeds:

a. 21 feet for a 3/4 inch line  
b. 32 feet for a 5/8 inch line  
c. 43 feet for a 1/2 inch line  
d. 50 feet for a 3/8 inch line or less

Where the water piping or tubing length contains more than one size of pipe, the largest size shall be used for determining the maximum allowable length of pipe before a circulating hot water system is required. For the purpose of this section, the source of hot water shall be a water heater, boiler, circulation loop piping, distribution manifold, or heat-traced piping.

(c) *Section R403.5.2 Demand recirculation systems, is deleted.*

(d) *Section R404.1 Lighting equipment (Mandatory), is amended to read as follows:*

R404.1 Lighting equipment (Mandatory)

A minimum of 90 percent of the permanently installed lighting fixtures shall contain only high-efficacy lamps.

Exception: Low-voltage lighting.

(e) Table R406.4 Maximum Energy Rating Index, is amended for Climate Zone 2 as follows:

<table>
<thead>
<tr>
<th>TABLE R406.4</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLIMATE ZONE</td>
</tr>
<tr>
<td>2</td>
</tr>
</tbody>
</table>

¹Energy generated from on-site renewable energy shall not be included in the calculation of the Energy Rating Index value.

[Sections 31-113- 31-119: Reserved]

ARTICLE VIII. INTERNATIONAL EXISTING BUILDING CODE

Sec. 31-120. Adoption of International Existing Building Code.

[Sections 31-121-31-129: Reserved]

ART IX. FIRE CODE
Section 31-130. Fire Code Reference.
The provisions of Scottsdale Revised Code, Chapter 36, FIRE PREVENTION AND PROTECTION, as amended from time to time, are by this reference made part of the city Building Code.

[Sections 31-131-31-139: Reserved]

ART. X. GREEN CONSTRUCTION CODE
Section 31-140. Adoption of International Green Construction Code.

Section 31-141. IgCC CHAPTER 1, SCOPE AND ADMINISTRATION – amendments.
Only the following portions of CHAPTER 1 SCOPE AND ADMINISTRATION are amended.
(a) 101.1 Title, is amended to read as follows:
101.1 Title.
These regulations shall be known as the Green Construction Code of the City of Scottsdale, hereinafter referred to in this Article as "this code."

(b) The exceptions to 101.3 Scope, are amended by adding the following:
5. Where not otherwise required as part of planning or development stipulations, the code shall not apply to projects that elect not to comply at the time of building permit application submittal.

(c) 101.3.1 Residential construction, is amended to read as follows:
101.3.1 Green code programs.
Buildings registered for certification or designation under the following national and local green building programs shall be deemed to comply with this code:
1. LEED green building rating system for new commercial buildings and major renovations.
2. Green Globes green building rating system for new commercial buildings and significant renovations.
3. ICC 700, LEED for Homes, and Scottsdale Green Building Program rating systems for the following residential buildings:
3.1. Detached one- and two-family dwellings and multiple single-family dwellings (townhouses) not more than three stories in height above grade plane with a separate means of egress, their accessory structures, and the site upon which these buildings are located.

3.2. Group R-3 residential buildings, their accessory structures, and the site upon which these buildings are located.

3.3. Group R-2 and R-4 residential buildings not more than four stories in height above grade plane, their accessory structures, and the site upon which these buildings are located.

(d) 102.4 Referenced codes and standards, is amended to read as follows:

102.4 Referenced codes and standards.
The building codes of the City of Scottsdale, adopted and amended in Chapters 31 and 36 of the Scottsdale Revised Code, shall be considered part of the requirements of this code.

(e) 102.6 Existing structures, is amended to read as follows:

102.6 Existing structures.
The legal occupancy of any structure existing on the date of adoption of this code shall be permitted to continue without change, except as is:
1. Specifically covered in:
   1.1 This code; or
   1.2 The building codes of the City of Scottsdale, as adopted and amended in Chapter 31 of the Scottsdale Revised Code; or
   1.3 The International Fire Code as adopted and amended in the Scottsdale Revised Code, Chapter 36.
2. Deemed necessary by the building official for the general safety and welfare of building occupants and the public.

(f) 103.1 General, is amended to read as follows:

103.1 General.
The building official established in Scottsdale Revised Code, Chapter 31, is hereby authorized and directed to enforce the provisions of this code. The building 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 and how this code relates to other applicable codes and ordinances. Such interpretations, policies and procedures shall be in compliance with the intent and purpose of this code and other applicable codes and ordinances. Such policies and procedures shall not have the effect of waiving requirements specifically provided for in this code or other applicable codes and ordinances.

(g) References to the "code official" in this code shall mean the "building official."

(h) 104.1 Information on construction documents, is amended to read as follows:
104.1 Information on construction documents.
The content and format of construction documents shall comply with the International Building Code as adopted and amended in the Scottsdale Revised Code, Chapter 31.

(i) 108.1 General, is amended to read as follows:

108.1 General.
Appeals of orders, decisions or determinations made by the building official relative to the application and interpretation of this code shall be made to the Building Advisory Board of Appeals as set forth in the Scottsdale Revised Code, Chapter 31.

Section 31-152. IgCC CHAPTER 3, JURISDICTIONAL REQUIREMENTS.
CHAPTER 3, JURISDICTIONAL REQUIREMENTS, is deleted.

Section 31-153. IgCC CHAPTER 4, SITE DEVELOPMENT AND LAND USE – amendments.
Only the following portions of CHAPTER 4, SITE DEVELOPMENT AND LAND USE, are amended:
(a) The first sentence of 401.2 Predesign site inventory and assessment, is amended to read as follows:

401.2 Predesign site inventory and assessment.
An inventory and assessment of the natural resources and baseline conditions of the building site shall be submitted in accordance with the city requirements for landscaping and native plants.

(b) 402.1, Protection by area, is amended to read as follows:

402.1 Protection by area.
Where flood hazard areas, conservation areas, or greenfields are located on, or adjacent to, a lot, the development of the lot as a building site shall comply with the provisions of Section 402 below.

(c) 402.2 Flood hazards areas, is amended to read as follows:

402.2 Development in flood hazard areas.
New buildings, structures and substantial improvements constructed in flood hazard areas shall be in compliance with the Scottsdale Revised Code, Chapter 37.

(d) (402.2.1, Flood hazard area preservation general, 402.2.2, Flood hazard area preservation specific, and 402.2.3, Development in flood hazard areas, are deleted.

(e) 402.3, Surface water protection, is deleted.

(f) 402.4, Wetland protection, is deleted.

(g) 402.5 Conservation area, is amended to read as follows, and the exception is deleted:

402.5 Protected areas.
Site disturbance or development of land within city designated protected areas, including, but not limited to, scenic corridors, vista corridors, natural area open space, and properties
zoned Conservation Open Space or Environmentally Sensitive Lands are subject to the city requirements for conserving those areas.

(h) 402.6, *Agricultural land*, is deleted.

(i) 402.7, *Greenfield sites, and 402.7.1, Site disturbance limits on greenfield sites, are deleted.*

(j) 403.1 *Stormwater management, is amended to read as follows:*

403.1 Stormwater management.
Stormwater management systems, including, but not limited to, infiltration, evapotranspiration; rainwater harvest and runoff reuse; shall be provided and maintained on the building site in accordance with the Scottsdale Revised Code, Chapter 37.

(k) 403.1.1, *Increased runoff, 403.1.2, Adjoining lots and property, and 403.1.3, Brownfields, are deleted.*

(l) 404.2, *Outdoor ornamental fountains and water features, is amended to read as follows, and the Exception is deleted:*

404.2 Outdoor ornamental fountains and water features.
Outdoor ornamental fountains and water features are subject to approval in accordance with the Scottsdale Revised Code, Chapter 49.

(m) 404.2.1 *Treatment, 404.2.2 Recirculation, and 404.2.3 Signage, are deleted.*

(n) 405.1, *Soil and water quality protection, is amended to read as follows, and subsections 405.1.1, 405.1.2, 405.1.3, 405.1.4, 401.1.5, and 405.1.6 are deleted:*

405.1 Soil and water quality protection.
Soil and water quality shall be protected in accordance with the Scottsdale Revised Code, Chapter 37.

(o) 405.2, *Vegetation and soil protection, is amended to read as follows, and subsections 405.2.1 and 405.2.2 are deleted:*

405.2 Vegetation and soil protection.
Vegetation and soils shall be protected in accordance with city requirements for landscaping and native plants.

(p) 405.3, *Native plant landscaping, is amended to read as follows:*

405.3 Native plant landscaping.
Where new landscaping is installed as part of a site plan or within the building site, such landscaping shall be subject to approval with city requirements for landscaping and native plants.

(q) Section 406, *Building SITE Waste Management, is deleted.*

(r) 407.1 *Walkways and bicycle paths, is amended to read as follows:*

407.1 Walkways and bicycle paths.
Walkways and bicycle paths shall connect streets and other paths to building entrances in accordance with the city Zoning Ordinance and city design standards for walkways and bicycle paths. Not less than one independent, paved walkway or bicycle path suitable for bicycles, strollers, pedestrians, and other forms of nonmotorized locomotion connecting a street or other path to a building entrance shall be provided. Walkways and bicycle paths shall connect to existing paths or sidewalks, and shall be designed to connect to any planned future paths. Paved walkways and bicycle paths shall be designed to minimize stormwater runoff. Pervious and permeable pavement shall be designed in accordance with Section 408.2.4.

(s) 407.2 Changing and shower facilities, is amended to read as follows:

407.2 Changing and shower facilities.
Buildings with a total building floor area greater than 10,000 square feet (929m²) and that are required to be provided with bicycle parking and storage facilities in accordance with the city Zoning Ordinance and city design standards for bicycle parking and storage facilities shall be provided with onsite changing room and shower facilities. Not less than one shower shall be provided for each 20 bicycle parking spaces, or fraction thereof, that are required by city ordinance. Where more than one changing room and shower facility is required, separate facilities shall be provided for each sex.
Exception: Group R-2 buildings.

(t) 407.3 Bicycle parking and storage, is amended to read as follows, and the Exceptions are deleted:

407.3 Bicycle parking and storage.
The required number of bicycle parking spaces and storage capacity shall be determined in accordance with the city Zoning Ordinance and city design standards for bicycle parking and storage.

(u) 407.3.1 Short-term bicycle parking, is amended to read as follows, and 407.3.2 Long-term bicycle parking is deleted.

407.3.1 Bicycle parking.
Not less than 50 percent of bicycle parking shall be within a building or provided with a permanent cover including, but not limited to, roof overhangs, awnings, or bicycle storage lockers or within covered parking structures. Bicycle parking shall comply with all of the following:
1. It shall be provided with illumination of not less than 1 footcandle (11 lux) at the parking surface;
2. It shall be located at the same grade as the sidewalk or at a location reachable by ramp or accessible route;
3. Horizontal parking spaces shall have a floor area of not less than 18 inches (457 mm) by 72 inches (1829 mm) for each bicycle;
4. Vertical parking spaces shall have a floor area of not less than 18 inches (457 mm) by 44 inches (1118 mm) for each bicycle with not less than 24 inches (610 mm) of clearance above the highest point of the bicycle rack;

5. It shall be provided with a rack or other facility for locking or securing each bicycle; and

6. It shall be located within 100 feet (30. 48 m) of, and visible from, the main entrance.

Exception: Where directional signage is provided at the main building entrances, bicycle parking shall be permitted to be provided at locations not visible from the main entrance.

(v) Table 407.3 Bicycle parking, is deleted.

(w) 407.4 Preferred vehicle parking, is amended to read as follows, and 407.4.1 High-occupancy vehicle parking, is deleted:

407.4 Preferred vehicle parking. Preferred parking spaces required by this section shall be those in the parking facility that are located on the shortest route of travel from the parking facility to a building entrance, but shall not take precedence over parking spaces that are required to be accessible in accordance with the International Building Code. Where buildings have multiple entrances with adjacent parking, parking spaces required by this section shall be dispersed and located near the entrances. Such parking spaces shall be provided with approved signage that specifies the permitted usage.

Exception: Group R-2 buildings.

(x) Section 408.3, Roof surfaces, is amended to delete Exception 6.

(y) Section 409, Site Lighting, is amended to read as follows:

SECTION 409
SITE LIGHTING
409.1 Site lighting shall comply with City's Zoning Ordinance, Scottsdale Revised Code Appendix B.

Section 31-154. IgCC CHAPTER 5, MATERIAL RESOURCE CONSERVATION AND EFFICIENCY – amendments.

Only the following portions of CHAPTER 5 MATERIAL RESOURCE CONSERVATION AND EFFICIENCY are amended.

(a) The first sentence of 503.1 Construction material and waste management plan, is amended as follows:

503.1 Construction material and waste management plan. Not less than 35 percent of nonhazardous construction waste shall be diverted from disposal.

The remainder of Section 503.1 shall remain as in the International Code.

(b) 504.1, Recycling areas for waste generated post certificate of occupancy, is amended to read as follows:

504.1 Recycling areas for waste generated post certificate of occupancy. Waste recycling areas for use by building occupants shall be designed and constructed to recycle
materials, meet the needs of the occupancy, facilitate efficient pick-up, and be available to occupants and haulers.

(c) SECTION 506, Lamps, is deleted in its entirety.

Section 31-155. IgCC CHAPTER 6, ENERGY CONSERVATION, EFFICIENCY AND CO$_2$e EMISSION REDUCTION – amendments.

Only the following portions of CHAPTER 6 ENERGY CONSERVATION, EFFICIENCY AND CO$_2$e EMISSION REDUCTION, are amended.

(a) 601.3.1, Performance-based compliance, is amended to read as follows:

601.3.1 Performance-based compliance. Buildings designed on a performance basis shall comply with Sections C402.5, C403.2, C404, C405.2, C405.3, C405.5, C405.6 and C405.7 of the International Energy Conservation Code, and 602, 608.7, 608.8, 609, and 610. Exception: Buildings that comply with the performance-based requirements of Section C401.2 (3) of the International Energy Conservation Code and Sections 609 and 610 of this code.

(b) 603.3, Energy-type metering, is amended to read as follows:

603.3 Energy-type metering. Buildings shall be provided with the capability to determine energy use and peak demand as provided in this section for each of the energy types specified in Sections 603.3.1 through 603.3.7. Utility energy meters or supplemental sub-meters are permitted to be used to collect whole building data, and shall be equipped with a local data port.

Subsections of 603.3.1 through 603.3.7.5 shall remain as in the International Code.

(c) 603.4, Energy load type sub-metering, is amended to read as follows:

603.4 Energy load type sub-metering. In all buildings, the energy distribution system shall be designed and constructed to accommodate the future installation of sub-meters and other approved devices, including, but is not limited to, providing access to distribution lines and ensuring adequate space for the installation of sub-meters and other approved devices.

(d) 603.5, Minimum energy measurement and verification, 603.6, Energy display, and 604, Automated demand-response infrastructure, are deleted.

(e) 605.1.2.1 Air Barriers, is amended to read as follows:

605.1.2.1 Air barriers. A continuous air barrier shall be provided for buildings in climate zones 1 through 8 in accordance with Section C402.5.1 of the International Energy Conservation Code.

(f) 607.4, Snowmelt systems, is deleted.

(g) 608.2, Sleeping unit controls, is amended to read as follows.

608.2 Sleeping unit controls. Sleeping units in Group R-1 occupancies shall have a master control device that automatically switches off all installed luminaires and switched receptacles within 20 minutes after all occupants have left the room.
Exception: Luminaires and switched receptacles controlled by captive key controls.

(h) 608.2.1, Sleeping unit bathroom controls, is deleted.

(i) 608.4 Exterior lighting controls, is amended to read as follows:


(j) 608.4.1, Exterior light reduction, and 608.4.2, Exterior lighting and signage shutoff, are deleted.

(k) 608.6 Plug load controls, is deleted.

(l) 610.1 Onsite renewable energy systems, is amended to read as follows:

610.1 Onsite renewable energy systems. Each building or its associated building site shall be equipped with any combination of onsite renewable energy systems in accordance with one of the following:
1. Provide not less than 0.50 watts per square foot (5.4 W/m²) of conditioned floor area of the building.
2. Provide not less than 3 percent of the total estimated annual electric energy consumption for the building mechanical, service water heating and lighting as regulated in Chapter 4(CE) of the International Energy Conservation Code, as adopted and amended in Chapter 31 of the Scottsdale Revised Code.
3. For multifamily projects (R-2), provide not less than 10 percent of the total estimated annual electric energy consumption of the common area mechanical, service water heating and lighting as regulated in Chapter 4(CE) of the International Energy Conservation Code, as adopted and amended in Chapter 31 of the Scottsdale Revised Code.

Installation, inspection, maintenance, repair and replacement of onsite renewable energy systems shall comply with manufacturer's instructions, the International Fire Code, as adopted and amended in Chapter 36 of the Scottsdale Revised Code, and the International Building Code and NFPA 70, as adopted and amended in Chapter 31 of the Scottsdale Revised Code. Onsite renewable energy systems shall be tested after installation to verify that the installed performance meets design specifications. A report of the tested performance shall be provided to the building owner, and to the building official, if requested by the city. Onsite renewable energy systems shall be individually metered in accordance with Section 603.3.7.

The Exceptions remain as in the IgCC.

(m) 611.1, Systems commissioning and completion requirements, is amended to read as follows:

611.1 Systems commissioning and completion requirements.
Construction documents shall clearly indicate provisions for commissioning and completion requirements in accordance with this section and Section 902, and are permitted to refer to specifications for further requirements. Construction documents shall list equipment and systems to be commissioned and include the location of, and performance data pertaining to, each piece of equipment and system.

(n) 611.2 Commissioning plan, is amended to read as follows:

611.2 Commissioning plan. A commissioning plan shall be developed in accordance with Section 902.3.

(o) 611.4 Pre-certificate of occupancy commissioning report, is amended to read as follows, and subsections 611.4.1 Acceptance, 611.4.2, Copy available for review, and 611.4.3, Verification, are deleted.

611.4 Pre-certificate of occupancy commissioning report.
A pre-certificate of occupancy report of commissioning test procedures and results shall be completed and submitted in accordance with Section 902.4.

(p) 611.4.4, Manuals, is renumbered to 611.4.1, to read as follows:

611.4.1 Manuals. A Systems Manual assembled in accordance with Section 902.6 shall be provided to the owner.

(q) 611.5 Final Commissioning Report, is amended to read as follows,

611.5 Final Commissioning Report. A complete report of accomplishment of the commissioning plan, including test procedures and results, shall be completed in accordance with Section 902.5 and provided to the building owner.

(r) 611.6, Commissioning completion, is deleted.

(s) 611.10.3, Continuous air barrier commissioning report, is deleted.

Section 31-156. IgCC CHAPTER 7, WATER RESOURCE CONSERVATION, QUALITY AND EFFICIENCY – amendments.
Only the following portions of CHAPTER 7 WATER RESOURCE CONSERVATION, QUALITY AND EFFICIENCY, are amended:

(a) 702.6 Municipal reclaimed water, is deleted.

(b) 703.4 Condensate drainage recovery, is amended to read as follows:

703.4 Condensate drainage recovery. Condensate shall be collected and reused onsite for applications such as, but not limited to, water features, fountains, gray water collection systems and rainwater collection systems. Where onsite applications for condensate reuse are not available and the community sanitary sewer authority recycles sewage into a nonpotable water supply, condensate shall be discharged to the sanitary sewer system except where prohibited by the authority having jurisdiction.
Section 31-157. IgCC CHAPTER 8 INDOOR ENVIRONMENTAL QUALITY AND COMFORT – amendments.
Only the following portions of CHAPTER 8 INDOOR ENVIRONMENTAL QUALITY AND COMFORT, are amended:

(a) 801.2 Indoor air quality management plan required, is deleted.

(b) 803.2 Thermal environmental conditions for human occupancy, is amended to read as follows:


(c) 804.1 Fireplaces and appliances, is amended to read as follows, and 804.1.1 Venting and combustion air, 804.1.2 Wood fired appliances, and 804.1.3 Biomass appliances, are deleted:

804.1 Fireplaces and appliances. Where located within buildings, fireplaces, solid fuel-burning appliances, vented decorative gas appliances, vented gas fireplace heaters and decorative gas appliances for installation in fireplaces shall comply with International Mechanical Code, as adopted and amended in Chapter 31 of the Scottsdale Revised Code.

(d) 804.2 Post-construction, pre-occupancy baseline IAQ testing, is deleted.

(e) SECTION 807 ACOUSTICS, is deleted.

Section 31-158. IgCC CHAPTER 9 COMMISSIONING, INSPECTIONS, OPERATION AND MAINTENANCE – amendments.
Only the following portions of CHAPTER 9 COMMISSIONING, INSPECTIONS, OPERATION AND MAINTENANCE, are amended:

(a) 902.4, Pre-certificate of occupancy report requirement, is amended to read as follows:

902.4 Pre-certificate of occupancy report requirement. The approved agency shall keep records of the pre-certificate of occupancy special inspection and commissioning required by Tables 902.1 and 902.2. The approved agency shall issue logs and reports to the owner or the owner’s authorized agent and the registered design professional in responsible charge and, upon request, to the code official. Reports shall indicate that work was or was not completed in conformance to approved construction documents. Discrepancies shall be brought to the attention of the contractor for correction. Where discrepancies are not corrected, they shall be brought to the attention of the owner or the owner’s authorized agent, to the registered design professional in responsible charge and, where requested, to the code official, prior to the completion of that phase of the work. Prior to the issuance of a Certificate of Occupancy, a pre-certificate of occupancy report shall be submitted to the building owner or the owner’s authorized agent and, where requested, to the code official.

Note: 902.4.1 shall remain as in the IgCc.
(b) 902.5 Final commissioning report, and 902.5.1 Final commissioning report, are amended to read as follows:

902.5 Final commissioning report. The commissioning activities included in the commissioning plan, including delayed testing, shall be accomplished and documented before project completion. Equipment, systems and assemblies repaired or replaced and adjustments to calibration and settings, shall be documented in final sequence of operation and in the systems manual. This documentation shall be provided to the building owner or the owner’s authorized agent and shall be made available to the code official upon request.

902.5.1 Final commissioning report. A final commissioning report shall be submitted to the owner or the owners authorized agent within 12 months after the certificate of occupancy is issued and shall include the following:
1. A copy of functional and performance test procedures used during the commissioning process and measurable criteria for test acceptance.
2. A copy of the final owner’s project requirements, basis of design, and design and submittal reviews as required by the commissioning plan.
3. The results of all evaluations, start-up data, functional and performance tests, and reports by suppliers, contractors, inspectors, and commissioning providers. Reports demonstrating compliance with the requirements of Table 902.1 shall be included.
4. Issue logs and disposition of all deficiencies found during testing, including details of corrective measures used or proposed.
5. A resolution plan approved by the owner or the owner’s authorized agent identifying the issues that are unresolved or incomplete.

(c) 902.6 Systems manual, is amended to read as follows:

902.6 Systems manual. A complete systems manual shall be submitted to the owner or the owner’s authorized agent within 12 months after the certificate of occupancy is issued. Materials in Items 1, 2 and 3 of Section 902.6.2, shall be provided. At least one copy of the systems manual shall be in the possession of the owner or the owner's authorized agent and at least one additional copy shall remain with the building throughout the life of the facility.

Note: 902.6.1 and 902.6.2 remain as in the IgCC.

(d) The first paragraph of 902.7 Record documents, is amended to read as follows; no changes to subparagraphs 1 through 4:

902.7 Record documents. The cover sheet of the record documents for the project shall clearly indicate that at least one copy of the record documents shall be in the possession of the owner or the owner's authorized agent and at least one copy shall remain in the building. The record documents shall include all of the following:
(e) Table 902.1 Commissioning and Inspection Plan Requirements, is amended to read as follows:

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<th>CONSTRUCTION OR SYSTEM REQUIRING VERIFICATION</th>
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<tr>
<td>Building envelope systems</td>
<td>Field inspections and testing</td>
<td>During construction and prior to occupancy</td>
<td>605, 611.10, 611.7</td>
</tr>
<tr>
<td>Air and hydronic system balancing – provide the means for</td>
<td>Field inspections and testing</td>
<td>During construction and prior to</td>
<td>611.7</td>
</tr>
<tr>
<td>System Balancing</td>
<td>Functional and performance testing of HVAC equipment and control systems</td>
<td>Field inspections and testing</td>
<td>During construction and prior to occupancy</td>
</tr>
<tr>
<td>Ontime</td>
<td>Lighting and electrical systems</td>
<td>Field inspections and testing</td>
<td>During construction and prior to occupancy</td>
</tr>
<tr>
<td></td>
<td>Onsite Renewable energy systems</td>
<td>Field inspections and testing</td>
<td>During construction and prior to occupancy</td>
</tr>
</tbody>
</table>

**Chapter 7: Water Resource Conservation, Quality and Efficiency**

| System Balancing | Water metering | Field inspection and verification | During construction and prior to occupancy | 701.2 |
| | Fixtures, equipment and appliances | Field inspection and verification | During construction and prior to occupancy | 702 |
| | HVAC systems and equipment | Field inspection and verification | During construction and prior to occupancy | 703 |
| | Water treatment devices and equipment | Field inspection and verification | During construction and prior to occupancy | 704 |

**Chapter 8: Indoor Environmental Quality and Comfort**

| System Balancing | Air-handling system access | Field inspection and verification | During construction and prior to occupancy | 802.2 |
| | Air-handling filtration and bypass pathways | Field inspection and verification | During construction and prior to occupancy | 802.3 |
| | HVAC systems | Construction phase requirements | Field inspection and verification | 803.1 |
Thermal environmental conditions for human occupancy

<table>
<thead>
<tr>
<th>Field inspection and verification</th>
<th>During construction and prior to occupancy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thermal environmental conditions for human occupancy</td>
<td>803.2</td>
</tr>
</tbody>
</table>

Isolation of pollutant sources

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<thead>
<tr>
<th>Field inspection and verification</th>
<th>During construction and prior to occupancy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isolation of pollutant sources</td>
<td>803.3</td>
</tr>
</tbody>
</table>

Filters

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<tr>
<th>Field inspection and verification</th>
<th>During construction and prior to occupancy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filters</td>
<td>803.4</td>
</tr>
</tbody>
</table>

Material emissions

| Composite wood products; adhesives and sealants; paints and coatings; flooring; ceiling tiles and wall systems; insulation | Field inspection and verification | During construction and prior to occupancy |
|----------------------------------|------------------------------------------|
| Material emissions | 806 |

Section 31-159. IgCC CHAPTER 10 EXISTING BUILDINGS – amendments.
Only the following portion of CHAPTER 10 EXISTING BUILDINGS is amended:
1007.3 Post certificate of occupancy annual net energy use, energy demand, and CO₂e emissions reporting, is deleted.

Section 31-160. IgCC CHAPTER 11 EXISTING BUILDING SITE DEVELOPMENT – amendments.
Chapter 11, Existing Building Site Development, is deleted in its entirety.

[Sections 31-161 – 31-164: Reserved]

ART. XI. BLEACHERS

Section 31-165. Adoption of the 2012 ICC Standard for Bleachers, Folding and Telescopic Seating, and Grandstands.

[Sections 31-166 – 31-169: Reserved]

ART. XII. VIOLATIONS AND PENALTIES

Section 31-170. Enforcement and penalties.
(a) The civil fine for a defendant's first violation of this chapter shall be at least five hundred dollars ($500.00) per violation. The civil fine for a defendant's second or subsequent violation of this chapter within two (2) years of the date of the first violation shall be at least seven hundred dollars ($700.00) per violation.

(b) The following violations may be prosecuted as class 1 misdemeanors:
   1. A second violation of this chapter within two (2) years of the date of the first violation.
   2. A violation that warrants increased penalties because of its significant, deleterious impact on property or on the public health, safety or general welfare.

(c) The fine for a defendant's first violation prosecuted as a class 1 misdemeanor shall be at least one thousand dollars ($1,000.00) per violation. The fine for a defendant's second or subsequent violation prosecuted as a class 1 misdemeanor within two (2) years of the date of the first violation shall be at least two thousand dollars ($2,000.00) per violation.

(d) The court may impose imprisonment in addition to fines for convictions of violations prosecuted as class 1 misdemeanors.

(e) The court shall also impose all other fees and surcharges applicable under state statutes and chapter 9 of the Scottsdale Revised Code.

Sec. 31-171. Additional remedies.
In addition to other remedies, the city may institute appropriate action to restrain, correct or abate any violation of this chapter. The court may issue a restraining order, preliminary injunction, or permanent injunction, upon terms to do justice and enforce this chapter.

Sec. 31-172. Restitution.
In addition to penalties, the court shall impose restitution for:
(a) All costs associated with the city's abatement of a violation, restoration of the property and enforcement of this chapter, and
(b) Any fines or penalties imposed on the city resulting from the violation.
RESOLUTION NO. 10599


WHEREAS, the Building Department of the City of Scottsdale wishes to replace the existing building and construction codes with updated versions of the codes, and to amend the International and National Codes and the Scottsdale Revised Code to better address the needs of the City of Scottsdale; and

WHEREAS, State Law permits cities to declare documents a public record;

NOW, THEREFORE BE IT RESOLVED by the Council of the City of Scottsdale as follows:

Section 1. The following document is hereby declared to be a public record, and three copies are ordered to remain on file in the office of the City Clerk and kept available for public use and inspection: The International Residential Code for One-and Two-Family Dwellings, 2015 Edition, including Appendices A, B, C, H, J, K, R, S, U,” as published by the International Code Council, Inc.

PASSED AND ADOPTED by the Council of the City of Scottsdale this ______ day of November 2016.

ATTEST: ____________________________ CITY OF SCOTTSDALE, an
Carolyn Jagger, City Clerk Arizona municipal corporation

______________________________ W. J. “Jim” Lane, Mayor

APPROVED AS TO FORM:
OFFICE OF THE CITY ATTORNEY

______________________________ Bruce Washburn, City Attorney
By: Patricia J. Boomsma, Assistant City Attorney

Resolution 10599
Page 1 of 1

15066744v1

ATTACHMENT #4
RESOLUTION NO. 10600

A RESOLUTION OF THE CITY OF SCOTTSDALE, MARICOPA COUNTY, ARIZONA, DECLARING AS A PUBLIC RECORD THAT CERTAIN DOCUMENT FILED WITH THE CITY CLERK OF THE CITY OF SCOTTSDALE ENTITLED "THE INTERNATIONAL PLUMBING CODE, 2015 EDITION"

WHEREAS, the Building Department of the City of Scottsdale wishes to replace the existing building and construction codes with updated versions of the codes, and to amend the International and National Codes and the Scottsdale Revised Code to better address the needs of the City of Scottsdale; and

WHEREAS, State Law permits cities to declare documents a public record;

NOW, THEREFORE BE IT RESOLVED by the Council of the City of Scottsdale as follows:

Section 1. The following document is hereby declared to be a public record, and three copies are ordered to remain on file in the office of the City Clerk and kept available for public use and inspection: "The International Plumbing Code, 2015 Edition, including Appendices B and E," as published by the International Code Council, Inc.

PASSED AND ADOPTED by the Council of the City of Scottsdale this _____ day of November 2016.

ATTEST: _____________________________
Carolyn Jagger, City Clerk

CITY OF SCOTTSDALE, an
Arizona municipal corporation

W. J. "Jim" Lane, Mayor

APPROVED AS TO FORM:

OFFICE OF THE CITY ATTORNEY

Bruce Washburn, City Attorney
By: Patricia J. Boomsma, Assistant City Attorney
RESOLUTION NO. 10601

A RESOLUTION OF THE CITY OF SCOTTSDALE, MARICOPA COUNTY, ARIZONA, DECLARING AS A PUBLIC RECORD THAT CERTAIN DOCUMENT FILED WITH THE CITY CLERK OF THE CITY OF SCOTTSDALE ENTITLED "THE INTERNATIONAL MECHANICAL CODE, 2015 EDITION"

WHEREAS, the Building Department of the City of Scottsdale wishes to replace the existing building and construction codes with updated versions of the codes, and to amend the International and National Codes and the Scottsdale Revised Code to better address the needs of the City of Scottsdale; and

WHEREAS, State Law permits cities to declare documents a public record;

NOW, THEREFORE BE IT RESOLVED by the Council of the City of Scottsdale as follows:

Section 1. The following document is hereby declared to be a public record, and three copies are ordered to remain on file in the office of the City Clerk and kept available for public use and inspection: "The International Mechanical Code, 2015 Edition", as published by the International Code Council, Inc.

PASSED AND ADOPTED by the Council of the City of Scottsdale this ______ day of November 2016.

ATTEST:

Carolyn Jagger, City Clerk

CITY OF SCOTTSDALE, an
Arizona municipal corporation

__________________________  ______________________________
W. J. “Jim” Lane, Mayor

APPROVED AS TO FORM:
OFFICE OF THE CITY ATTORNEY

__________________________
Bruce Washburn, City Attorney
By: Patricia J. Boomsma, Assistant City Attorney

Resolution 10601
Page 1 of 1

15069324v1

ATTACHMENT #6
RESOLUTION NO. 10602

A RESOLUTION OF THE CITY OF SCOTTSDALE, MARICOPA COUNTY, ARIZONA, DECLARING AS A PUBLIC RECORD THAT CERTAIN DOCUMENT FILED WITH THE CITY CLERK OF THE CITY OF SCOTTSDALE ENTITLED "THE NATIONAL ELECTRICAL CODE, 2014 EDITION"

WHEREAS, the Building Department of the City of Scottsdale wishes to replace the existing building and construction codes with updated versions of the codes, and to amend the International and National Codes and the Scottsdale Revised Code to better address the needs of the City of Scottsdale; and

WHEREAS, State Law permits cities to declare documents a public record;

NOW, THEREFORE BE IT RESOLVED by the Council of the City of Scottsdale as follows:

Section 1. The following document is hereby declared to be a public record, and three copies are ordered to remain on file in the office of the City Clerk and kept available for public use and inspection: "The National Electrical Code, 2014 Edition", as published by the National Fire Protection Association.

PASSED AND ADOPTED by the Council of the City of Scottsdale this ______ day of November 2016.

ATTEST: CITY OF SCOTTSDALE, an
Arizona municipal corporation

Carolyn Jagger, City Clerk
W. J. "Jim" Lane, Mayor

APPROVED AS TO FORM:
OFFICE OF THE CITY ATTORNEY

Bruce Washburn, City Attorney
By: Patricia J. Boomsma, Assistant City Attorney

Resolution 10602
Page 1 of 1
RESOLUTION NO. 10603

A RESOLUTION OF THE CITY OF SCOTTSDALE, MARICOPA COUNTY, ARIZONA, DECLARING AS A PUBLIC RECORD THAT CERTAIN DOCUMENT FILED WITH THE CITY CLERK OF THE CITY OF SCOTTSDALE ENTITLED “THE INTERNATIONAL ENERGY CONSERVATION CODE, 2015 EDITION.”

WHEREAS, the Building Department of the City of Scottsdale wishes to replace the existing building and construction codes with updated versions of the codes, and to amend the International and National Codes and the Scottsdale Revised Code to better address the needs of the City of Scottsdale; and

WHEREAS, State Law permits cities to declare documents a public record;

NOW, THEREFORE BE IT RESOLVED by the Council of the City of Scottsdale as follows:

Section 1. The following document is hereby declared to be a public record, and three copies are ordered to remain on file in the office of the City Clerk and kept available for public use and inspection: “The International Energy Conservation Code, 2015 Edition”, as published by the International Code Council, Inc.

PASSED AND ADOPTED by the Council of the City of Scottsdale this _____ day of November 2016.

ATTEST: CITY OF SCOTTSDALE, an
Arizona municipal corporation

Carolyn Jagger, City Clerk

W. J. "Jim" Lane, Mayor

APPROVED AS TO FORM:
OFFICE OF THE CITY ATTORNEY

By: Patricia J. Boomsma, Assistant City Attorney

Resolution 10603
Page 1 of 1

ATTACHMENT #8
RESOLUTION NO. 10604

A RESOLUTION OF THE CITY OF SCOTTSDALE, MARICOPA COUNTY, ARIZONA, DECLARING AS A PUBLIC RECORD THAT CERTAIN DOCUMENT FILED WITH THE CITY CLERK OF THE CITY OF SCOTTSDALE ENTITLED "THE INTERNATIONAL GREEN CONSTRUCTION CODE, 2015 EDITION."

WHEREAS, the Building Department of the City of Scottsdale wishes to replace the existing building and construction codes with updated versions of the codes, and to amend the International and National Codes and the Scottsdale Revised Code to better address the needs of the City of Scottsdale; and

WHEREAS, State Law permits cities to declare documents a public record;

NOW, THEREFORE BE IT RESOLVED by the Council of the City of Scottsdale as follows:

Section 1. The following document is hereby declared to be a public record, and three copies are ordered to remain on file in the office of the City Clerk and kept available for public use and inspection: "The International Green Construction Code, 2015 Edition", as published by the International Code Council, Inc.

PASSED AND ADOPTED by the Council of the City of Scottsdale this _____ day of November 2016.

ATTEST: CITY OF SCOTTSDALE, an
Carolyn Jagger, City Clerk Arizona municipal corporation

W. J. "Jim" Lane, Mayor

APPROVED AS TO FORM:
OFFICE OF THE CITY ATTORNEY

Bruce Washburn, City Attorney
By: Patricia J. Boomsma, Assistant City Attorney
RESOLUTION NO. 10627

A RESOLUTION OF THE CITY OF SCOTTSDALE, MARICOPA COUNTY, ARIZONA, DECLARING AS A PUBLIC RECORD THAT CERTAIN DOCUMENT FILED WITH THE CITY CLERK OF THE CITY OF SCOTTSDALE ENTITLED "THE INTERNATIONAL FUEL GAS CODE, 2015 EDITION."

WHEREAS, the Building Department of the City of Scottsdale wishes to replace the existing building and construction codes with updated versions of the codes, and to amend the International and National Codes and the Scottsdale Revised Code to better address the needs of the City of Scottsdale; and

WHEREAS, State Law permits cities to declare documents a public record;

NOW, THEREFORE BE IT RESOLVED by the Council of the City of Scottsdale as follows:

Section 1. The following document is hereby declared to be a public record, and three copies are ordered to remain on file in the office of the City Clerk and kept available for public use and inspection: "The International Fuel Gas Code, 2015 Edition", as published by the International Code Council, Inc.

PASSED AND ADOPTED by the Council of the City of Scottsdale this ______ day of November 2016.

ATTEST: ____________________________ CITY OF SCOTTSDALE, an
Carolyn Jagger, City Clerk Arizona municipal corporation

W. J. "Jim" Lane, Mayor

APPROVED AS TO FORM:
OFFICE OF THE CITY ATTORNEY

______________________________
Bruce Washburn, City Attorney
By: Patricia J. Boomsma, Assistant City Attorney

Resolution 10627
Page 1 of 1

ATTACHMENT #10
RESOLUTION NO. 10628

A RESOLUTION OF THE CITY OF SCOTTSDALE, MARICOPA COUNTY, ARIZONA, DECLARING AS A PUBLIC RECORD THAT CERTAIN DOCUMENT FILED WITH THE CITY CLERK OF THE CITY OF SCOTTSDALE ENTITLED "THE INTERNATIONAL EXISTING BUILDING CODE, 2015 EDITION"

WHEREAS, the Building Department of the City of Scottsdale wishes to replace the existing building and construction codes with updated versions of the codes, and to amend the International and National Codes and the Scottsdale Revised Code to better address the needs of the City of Scottsdale; and

WHEREAS, State Law permits cities to declare documents a public record;

NOW, THEREFORE BE IT RESOLVED by the Council of the City of Scottsdale as follows:

Section 1. The following document is hereby declared to be a public record, and three copies are ordered to remain on file in the office of the City Clerk and kept available for public use and inspection: "The International Existing Building Code, 2015 Edition", as published by the International Code Council, Inc.

PASSED AND ADOPTED by the Council of the City of Scottsdale this ______ day of November 2016.

ATTEST: 

CITY OF SCOTTSDALE, an Arizona municipal corporation

__________________________  __________________________
Carolyn Jagger, City Clerk  W. J. "Jim" Lane, Mayor

APPROVED AS TO FORM: 

OFFICE OF THE CITY ATTORNEY

__________________________
Bruce Washburn, City Attorney

By: Patricia J. Boomsma, Assistant City Attorney

Resolution 10628
Page 1 of 1

15072041v1

ATTACHMENT #11
RESOLUTION NO. 10629

A RESOLUTION OF THE CITY OF SCOTTSDALE, MARICOPA COUNTY, ARIZONA, DECLARING AS A PUBLIC RECORD THAT CERTAIN DOCUMENT FILED WITH THE CITY CLERK OF THE CITY OF SCOTTSDALE ENTITLED "THE 2012 ICC STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS"

WHEREAS, the Building Department of the City of Scottsdale wishes to replace the existing building and construction codes with updated versions of the codes, and to amend the International and National Codes and the Scottsdale Revised Code to better address the needs of the City of Scottsdale; and

WHEREAS, State Law permits cities to declare documents a public record;

NOW, THEREFORE BE IT RESOLVED by the Council of the City of Scottsdale as follows:

Section 1. The following document is hereby declared to be a public record, and three copies are ordered to remain on file in the office of the City Clerk and kept available for public use and inspection: "The 2012 ICC Standard for Bleachers, Folding and Telescopic Seating, and Grandstands", as published by the International Code Council, Inc.

PASSED AND ADOPTED by the Council of the City of Scottsdale this ______ day of November 2016.

ATTEST:                      CITY OF SCOTTSDALE, an
                            Arizona municipal corporation

Carolyn Jagger, City Clerk  W. J. "Jim" Lane, Mayor

APPROVED AS TO FORM:
OFFICE OF THE CITY ATTORNEY

Bruce Washburn, City Attorney
By: Patricia J. Boomsma, Assistant City Attorney

Resolution 10629
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15072062v1

ATTACHMENT #12
RESOLUTION NO. 10630


WHEREAS, the Building Department of the City of Scottsdale wishes to replace the existing building and construction codes with updated versions of the codes, and to amend the International and National Codes and the Scottsdale Revised Code to better address the needs of the City of Scottsdale; and

WHEREAS, State Law permits cities to declare documents a public record;

NOW, THEREFORE BE IT RESOLVED by the Council of the City of Scottsdale as follows:

Section 1. The following document is hereby declared to be a public record, and three copies are ordered to remain on file in the office of the City Clerk and kept available for public use and inspection: “ICC 117.1-2009, ‘Americans with Disabilities Act Accessibility Guidelines for Buildings and Facilities,’” as published by the International Code Council, Inc.

PASSED AND ADOPTED by the Council of the City of Scottsdale this ______ day of November 2016.

ATTEST: CITY OF SCOTTSDALE, an Arizona municipal corporation

Carolyn Jagger, City Clerk W. J. “Jim” Lane, Mayor

APPROVED AS TO FORM:

OFFICE OF THE CITY ATTORNEY

Brüce Washburn, City Attorney

By: Patricia J. Boomsma, Assistant City Attorney

Resolution 10630
Page 1 of 1

ATTACHMENT #13
RESOLUTION NO. 10631

A RESOLUTION OF THE CITY OF SCOTTSDALE, MARICOPA COUNTY, ARIZONA, DECLARING AS A PUBLIC RECORD THAT CERTAIN DOCUMENT FILED WITH THE CITY CLERK OF THE CITY OF SCOTTSDALE ENTITLED "THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN"

WHEREAS, the Building Department of the City of Scottsdale wishes to replace the existing building and construction codes with updated versions of the codes, and to amend the International and National Codes and the Scottsdale Revised Code to better address the needs of the City of Scottsdale; and

WHEREAS, State Law permits cities to declare documents a public record;

NOW, THEREFORE BE IT RESOLVED by the Council of the City of Scottsdale as follows:

Section 1. The following document is hereby declared to be a public record, and three copies are ordered to remain on file in the office of the City Clerk and kept available for public use and inspection: "The 2010 ADA Standards for Accessible Design," as published by the United States Department of Justice, Civil Rights Division.

PASSED AND ADOPTED by the Council of the City of Scottsdale this ______ day of November 2016.

ATTEST: CITY OF SCOTTSDALE, an
Arizona municipal corporation

Carolyn Jagger, City Clerk

W. J. "Jim" Lane, Mayor

APPROVED AS TO FORM:
OFFICE OF THE CITY ATTORNEY

Bruce Washburn, City Attorney
By Patricia J. Boomsma, Assistant City Attorney

Resolution 10631
Page 1 of 1
ORDINANCE NO. 4284


BE IT ORDAINED by the Mayor and City Council of the City of Scottsdale, Arizona, as follows:

Section 1. The following documents, declared public records by the Resolutions of the City of Scottsdale specified below, three copies of each of which are on file in the Office of the City Clerk of the City of Scottsdale, are adopted by these references and made a part hereof as if fully set out in this Ordinance, and shall be the Building Code of the City:


(3) The International Plumbing Code, 2015 Edition, including Appendices B and E, as published by the International Code Council, Inc., declared a public record by Resolution No. 10600 of the City of Scottsdale, as amended by the "2016 City of Scottsdale Building
Codes and Amendments," are hereby referred to, adopted, and made a part hereof as if fully set out in this Ordinance.

(4) The International Mechanical Code, 2015 Edition, as published by the International Code Council, Inc., declared to be a public record by Resolution No. 10601 of the City of Scottsdale, as amended by the “2016 City of Scottsdale Building Codes and Amendments," are hereby referred to, adopted, and made a part hereof as if fully set out in this Ordinance.

(5) The National Electrical Code, 2014 Edition, as published by the National Fire Protection Agency, declared a public record by Resolution No. 10602 of the City of Scottsdale, as amended by the “2016 City of Scottsdale Building Codes and Amendments," are hereby referred to, adopted, and made a part hereof as if fully set out in this Ordinance.


(9) The International Existing Building Code, 2015 Edition, as published by the International Code Council, Inc., declared to be a public record by Resolution No. 10628 of the City of Scottsdale is hereby referred to, adopted, and made a part hereof as if fully set out in this Ordinance.

(10) The 2012 ICC Standard for Bleachers, Folding and Telescopic Seating, and Grandstands, as published by the International Code Council, Inc., declared a public record by Resolution No. 10629 of the City of Scottsdale is hereby referred to, adopted, and made a part hereof as if fully set out in this Ordinance.


(12) The 2010 ADA Standards for Accessible Design," declared a public record by Resolution No. 10631 of the City of Scottsdale, is hereby referred to, adopted, and made a part hereof as if fully set out in this Ordinance.

Section 2. Chapter 31, Building and Building Regulations, of the Scottsdale Revised Code, including Articles I through VIII, Sections 31-1 through 31-236, is hereby repealed and replaced by a new Chapter 31, Building and Construction Regulations, which shall read as
specified in that certain document entitled “2016 City of Scottsdale Building Codes and Amendments,” declared to be a public record by Resolution No. 10597 of the City of Scottsdale, and hereby referred to, adopted and made a part hereof as if fully set out in this Ordinance.

Section 3. If any section, subsection, sentence, clause or phrase of this Ordinance is, for any reason, held to be invalid or unconstitutional, such decision shall not affect the validity of the remaining portions of this Ordinance. The Scottsdale City Council hereby declares that it would have passed this law, and each section, subsection, clause or phrase thereof, irrespective of the fact that any one or more sections, subsections sentences, clauses and phrases be declared invalid or unconstitutional.

Section 4. The existing provisions of Chapter 31 will remain in effect until the effective date of this Ordinance. The repeal of any provision of the Scottsdale Revised Code effectuated by this Ordinance does not affect the rights and duties that matured or penalties that were incurred and proceedings that were begun before the effective date of this Ordinance.

Section 5. Any person found guilty of violating this Ordinance shall, in addition to any other applicable penalty, be subject to the following:

Violation Penalties.
Any person who violates a provision of [the Building Code of the City of Scottsdale] or fails to comply with any of the requirements thereof or who erects, constructs, alters or repairs a building or structure in violation of the approved construction documents or directive of the building official, or of a permit or certificate issued under the provisions of this code, shall be subject to penalties as prescribed by law.

Section 31-170. Enforcement and penalties.
(a) The civil fine for a defendant's first violation of this chapter shall be at least five hundred dollars ($500.00) per violation. The civil fine for a defendant's second or subsequent violation of this chapter within two (2) years of the date of the first violation shall be at least seven hundred dollars ($700.00) per violation.

(b) The following violations may be prosecuted as class 1 misdemeanors:
   1. A second violation of this chapter within two (2) years of the date of the first violation.
   2. A violation that warrants increased penalties because of its significant, deleterious impact on property or on the public health, safety or general welfare.

(c) The fine for a defendant's first violation prosecuted as a class 1 misdemeanor shall be at least one thousand dollars ($1,000.00) per violation. The fine for a defendant's second or subsequent violation prosecuted as a class 1 misdemeanor within two (2) years of the date of the first violation shall be at least two thousand dollars ($2,000.00) per violation.

(d) The court may impose imprisonment in addition to fines for convictions of violations prosecuted as class 1 misdemeanors.

(e) The court shall also impose all other fees and surcharges applicable under state statutes and chapter 9 of the Scottsdale Revised Code.

Sec. 31-171. Additional remedies.
In addition to other remedies, the city may institute appropriate action to restrain, correct or abate any violation of this chapter. The court may issue a restraining order, preliminary injunction, or permanent injunction, upon terms to do justice and enforce this chapter.
Sec. 31-172. Restitution.
In addition to penalties, the court shall impose restitution for:
(a) All costs associated with the city's abatement of a violation, restoration of the property and enforcement of this chapter, and
(b) Any fines or penalties imposed on the city resulting from the violation.

Section 6. If there is any conflict or inconsistency between the provisions of this ordinance, the more restrictive provisions apply.

Section 7. The effective date of this ordinance shall be January 1, 2017.

PASSED AND ADOPTED BY THE Council of the City of Scottsdale, Maricopa County, Arizona this ______ day of November, 2016

ATTEST:

CITY OF SCOTTSDALE,
a municipal corporation

Carolyn Jagger, City Clerk

W.J. "Jim" Lane, Mayor

APPROVED AS TO FORM:
OFFICE OF THE CITY ATTORNEY

By: Patricia J. Boomsma, Assistant City Attorney
Memorandum

TO:  City Council

FROM:  Alisa McMahon, Environmental Quality Advisory Board (EQAB) Chair

DATE:  November 8, 2016

RE:  Recommendation for the Adoption of the 2015 International Green Construction Code (IgCC), International Energy Conservation Code (IECC), and International Residential Code (IRC) with related amendments

The Environmental Quality Advisory Board has reviewed and recommends adoption of the 2015 edition of the International Green Construction Code (IgCC), International Energy Conservation Code (IECC), and International Residential Code (IRC) with associated amendments for energy efficiency, water conservation and indoor environmental quality.

The 2015 IECC and IgCC have been updated for improved usability, evolving building technologies and alternative compliance measures. EQAB supports the associated amendments for high efficacy lighting, exhaust fan controls, solar-ready provisions and high-efficiency plumbing fixtures. Additionally, the updated 2015 IGCC will enhance the City’s voluntary Green Building Program by streamlining the green building documentation process for developers of commercial and multi-family housing.

Scottsdale has long been a leader in energy efficiency, water conservation and sustainable building. The recommended codes and amendments support Scottsdale’s long-term commitment to effectively manage our precious resources while preserving our quality of life for future generations.

Respectfully,

Alisa McMahon, Chairperson
Environmental Quality Advisory Board
Erica, thanks for your help this AM. I have attached a two page PDF that I would appreciate being included in the City Council updates for the Monday Nov. 28th meeting. This document is a quick reference for our elected officials that highlights the changes that were made to the new updated 2015 International Fire Code (IFC) and City Ordinance #4283. Identified are the Code Section numbers (underlined black text), what we did to that section (blue text), and a short explanation (red text). The goal is to make it easier to identify any changes between the current 2012 IFC/Ord #4045 and the new 2015 IFC/Ord #4283.

Thank you

Jim Ford
Deputy Chief/Fire Marshal
City of Scottsdale Fire Department
480-312-1804 (direct line)
Changes to
2015 Amended Fire Ordinance

GLOSSARY OF TERMS
IFC = International Fire Code
IBC = International Building Code
IRC = International Residential Code
DS&PM = Design Standard & Policy Manual
NFPA = National Fire Protection Agency

Comments in RED are the written modifications/addition/deletion to amended code section

Appendices: Modified
Appendices N and O are adopted as additional City of Scottsdale appendices to the 2015 IFC.
Appendices F, N, and O are adopted as regulatory and enforceable parts of this code.
(This allows for citations to be issued for violation of adopted codes)

308.1.4 Open-Flame Cooking Devices: Modified
- Removal of "Exception 2(d)" : Device is not located under any attached covers or balconies.

403.10.4 Group R-3 group care home/assisted living Addition
- An approved fire safety evacuation plan in accordance with section 404 shall be prepared and maintained for Group R group care home/assisted living occupancies.
  (Addition of required fire evacuation plan)

503.2.7 Grade: Modified
- Removed items 1-3, now reference requirements found in DS&PM

607.1.1 Elevator car to accommodate ambulance stretcher Modified
- Modified car measurements to coincide with available elevator car sizes.

906 Portable fire extinguisher Modified
906.1 Where required. Portable fire extinguishers shall be installed in all of the following locations:
  1. In new and existing Group A, B, E, F, H, I, M, R-1, R-2, R-3 Residential Care/Assisted Living Facilities, R-4 and S occupancies

912.2 Location Removed
- Removed due to already being stated in code and not modified
Changes to
2015 Amended Fire Ordinance

912.2.1 Visible Location Removed
- Removed due to already being stated in code and not modified

912.2.2 Existing Buildings Removed
- Removed due to already being stated in code and not modified

1004.3 Posting of occupant load Modified
- Added "Sign shall be as approved by COS Fire & Building Department"

1103.5 Sprinkler systems, Modified
An automatic sprinkler system shall be provided in existing buildings in accordance with section 1103.5.1 through 1103.5.5.

1103.5.5 Group R-4, Addition
An automatic sprinkler system shall be installed in accordance with section 903.2.7

5307.5 Carbon Dioxide (CO₂) Systems (New Section in IFC - Modified)
5307.5 Required protection. Where carbon dioxide storage tanks, cylinder, piping and equipment are located indoors, rooms, areas containing carbon dioxide storage tanks, cylinders, piping and fittings and other areas where a leak of carbon dioxide can collect shall be provided ventilation in accordance with Section 5307.5.1 and/or an emergency alarm system in accordance with Section 5307.5.2. (2015 IFC gives option of ventilation or alarm monitoring)

- 5307.5.2(2) Emergency alarm system. Modified
The threshold for activation of an alarm shall not exceed 15,000 parts per million (27,000 mg/m³) for supervisory alarm and 30,000 parts per million (54,000 mg/m³) for alarm evacuation of facility.
(2015 IFC set value at 5,000 ppm, modified thresholds are in line with Valley Fire Dept. standards)

5307.5.2.3 Alarm monitoring and power supply. Addition
Emergency alarm system shall be monitored and powered by the buildings alarm/monitoring system where an alarm notification system is required by another section of this code

Addition - Exception: If no building alarm system exist or is required by another section of this code, a gas detection device or system shall have a 90 minute backup power supply.