

**CITY OF BUCKEYE**  
**SEPTEMBER 2019**  
**BUILDING AND LIFE SAFETY**  
**CODES UPDATE**

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The Code of Buckeye, Chapter 15 Building Regulations, is hereby amended to read as follows:

**Chapter 15 – BUILDING REGULATIONS**

**Article 15-2 – BUILDING CODES**

**SECTION 15-2-1 BUILDING CODE**

- A. Building Code Adopted. That certain document designated and marked as the International Building Code, 2018 Edition, as published by the International Code Council, three (3) paper copies or one (1) paper copy and one (1) electronic copy of which are on file in the office of the city clerk, is hereby adopted by reference as the City's uniform building code as if fully set forth herein and it is hereby declared to be unlawful to be in violation of any provision of the City's uniform building code or cause or permit the same to be done, contrary to or in violation of any of the provisions of the City's uniform building code as hereby adopted by the city council.
  
- B. City of Buckeye Amendments to the 2018 International Building Code.

**CHAPTER 1 ADMINISTRATION**, is hereby amended as follows:

**101.1 Title.** Insert the words “City of Buckeye” as the name of jurisdiction. Also add, “The administrative provisions of Chapter 1 of this Code shall apply to all the adopted technical codes. When there is a conflict between these provisions and those of another technical code, these provisions shall apply. Where there is an administrative provision contained in another technical code and not in this code, then the administrative provision of the technical code shall apply.”

**101.2 Scope. Exception:** Delete the words “**this code or**” of the last sentence of the exception.

**101.2.1 Appendices.** Delete in its entirety and insert in lieu thereof the following:

**101.2.1 Appendices.** The following Appendices are hereby adopted:

- Appendix B: Board of Appeals;
- Appendix C: Agricultural Buildings;
- Appendix F: Rodent Proofing;
- Appendix I: Patio Covers, and;
- Appendix J: Grading

**101.4 Referenced codes.** Shall be deleted in its entirety and revised to read as follows:

**101.4 Referenced codes.** The other codes listed in Sections 101.4.1 through 101.4.7 and referenced elsewhere in this code shall be considered part of the requirements of this code to the prescribed extent of each reference. If another code is referenced elsewhere in this code and has not been adopted, then that section shall be considered invalid. The administrative requirements specified in this Code shall supersede those in other adopted codes when there is a conflict.

**Exception:** Administrative requirements in the City of Buckeye Fire Code.

Any references to the International Fuel Gas Code shall be deleted and the words “Fuel Gas Code adopted by the City of Buckeye and amended from time to time” shall be inserted in lieu thereof.

Any references to the International Mechanical Code shall be deleted and the words “Mechanical Code adopted by the City of Buckeye and amended from time to time” shall be inserted in lieu thereof.

Any references to the International Plumbing Code shall be deleted and the words “Plumbing Code adopted by the City of Buckeye and amended from time to time” shall be inserted in lieu thereof.

Any references to the International Property Maintenance Code shall be deleted and the words “Property Maintenance Code adopted by the City of Buckeye and amended from time to time” shall be inserted in lieu thereof.

Any references to the International Fire Code shall be deleted and the words “Fire Code adopted by the City of Buckeye and amended from time to time” shall be inserted in lieu thereof.

Any references to the International Energy Conservation Code shall be deleted and the words “Energy Conservation Code adopted by the City of Buckeye and amended from time to time” shall be inserted in lieu thereof.

Any references to the International Existing Building Code shall be deleted and the words “Existing Building Code adopted by the City of Buckeye and amended from time to time” shall be inserted in lieu thereof.

**101.4.1 Fuel Gas.** The provisions of the Fuel Gas Code adopted by the City of Buckeye and amended from time to time 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 Mechanical Code adopted by the City of Buckeye and amended from time to time shall apply to the installation, alterations, repairs, and replacement of mechanical systems, including equipment, appliances, fixtures, fittings and appurtenances, including ventilating, heating, cooling, air conditioning and refrigeration systems, incinerators, and other energy-related systems.

**101.4.3 Plumbing.** The provisions of the Plumbing Code adopted by the City of Buckeye and amended from time to time shall apply to the installation alterations, repairs and replacement of plumbing systems, including equipment, appliances, fixtures, fittings and appurtenances, and where connected to a water or sewage system and all applicable aspects of a medical gas system. Private Sewage Disposal Facilities shall be regulated by the Maricopa County Department of Environmental Services Department.

**101.4.4 Property Maintenance.** The provisions of the Property Maintenance Code adopted by the City of Buckeye and amended from time to time shall apply to existing structures and premises; equipment and facilities; light, ventilation, space heating, sanitation, life and fire safety, hazards;

responsibilities of owners, operators and occupants; and occupancy of existing premises and structures and shall be managed by the City of Buckeye Code Enforcement Division.

**101.4.5 Fire Prevention.** The provisions of the Fire Code adopted by the City of Buckeye and amended from time to time shall apply to matters affecting or relating to structures, processes and premises from the hazard of fire or explosion arising from the storage, handling or use of structures, materials or devices; from conditions hazardous to life, property or public welfare in the occupancy of structures or premises; and from the construction, extension, repair, alteration or removal of fire suppression and alarm systems or fire hazards in the structure or on the premises from occupancy or operation and shall be managed by the City of Buckeye Fire Department.

**101.4.6 Energy.** The provisions of the Energy Conservation Code adopted by the City and amended from time to time shall apply to all matters governing the design and construction of buildings for energy efficiency.

**101.4.7 Existing Buildings.** The provisions of the Existing Building Code adopted by the City and amended from time to time shall apply to matters governing the repair, alteration, change of occupancy, addition to and relocation of existing buildings.

**103.3 Deputies.** Delete the last sentence.

**104.2 Add new subsection to read as follows:**

**104.2.2 Licenses required for non-residential projects.**

All projects shall utilize Arizona state-licensed commercial contractors.

**Exception:** R-3 occupancies

**105.2 Work exempt from permit, Building.** Amend to read as follows:

Delete items 2, 4 and 9 and insert in lieu thereof the following:

2. Fences not over 3 feet high.
4. [Blank]
9. Prefabricated swimming pools accessory to a Group R-3 occupancy that have a water depth that is less than 18 inches at any point and narrower than 8 feet at any point.

**105.3.2 Time limitation of application.** Delete in its entirety and amend to read as follows:

Shall be in conformance with the City of Buckeye Development User Fee Schedule, as amended from time to time.

**105.4 Validity of permit.** Delete in its entirety and amend to read as follows:

Shall be in conformance with the City of Buckeye Development User Fee Schedule, as amended from time to time.

**105.5 Expiration.** Delete in its entirety and amend to read as follows:

Shall be in conformance with the City of Buckeye Development User Fee Schedule, as amended from time to time.

**105.6 Suspension or revocation.** Delete in its entirety and amend to read as follows:

Shall be in conformance with the City of Buckeye Development User Fee Schedule, as amended from time to time.

**109.1 Payment of fee.** Delete in its entirety and amend to read as follows:

Shall be in conformance with the City of Buckeye Development User Fee Schedule, as amended from time to time.

**109.2 Schedule of permit fees.** Delete in its entirety and amend to read as follows:

Shall be in conformance with the City of Buckeye Development User Fee Schedule, as amended from time to time.

**109.3 Building permit valuations.** Amend to read as follows:

Shall be in conformance with the City of Buckeye Development User Fee Schedule, as amended from time to time. Any valuation not specifically provided for shall be determined by the Building Official and shall be classified in the use and construction type it most nearly resembles.

The applicant for a permit for a new building or structure or additions or alterations to an existing building or structure shall provide a reasonable estimated permit value at time of application. The value to be used in computing the building permit and building plan review fees shall be, including labor, the total of all construction work for which the permit is being issued, as well as grading, roofing, siding, electrical, plumbing, gas, heating, air conditioning, elevators, fire extinguishing systems, permanent mechanical equipment and systems as well as any other items which will require plan review and/or inspection. When permitted work includes an alteration to an existing structure or includes work outside of the standard calculated fee areas determined by square footage cost tables, the applicant shall provide legitimate actual/contracted project costs to establish the additional non-calculated valuation of the total permitted project. Value for donated and/or discounted materials and labor shall be established at typical market rates. If, in the opinion of the Building Official, the valuation is underestimated on the application, the permit shall be denied, unless the applicant can provide detailed estimates acceptable to the Building Official. Final building permit valuation shall be set by the Building Official.

**Exceptions:** The Building Official shall be authorized to omit the cost of land, finish materials such as paint, wallpaper, tile, flooring, interior paneling, except those finish materials requiring fire resistive qualities, solar panels, electric vehicle charging devices, counters, counter tops, cabinets, and residential appliances such as dishwashers, stoves, ovens and microwaves. In addition, the Building Official is authorized to omit the cost of electrical fixtures and plumbing fixtures such as garbage disposals, sinks, lavatories and water closets where their removal or replacement does not require inspection. These exceptions shall not include the replacement of any concealed or exposed electrical, plumbing, gas, ventilation or other mechanical systems required to operate these appliances or the exposed or concealed extension of any of these systems.

**109.4 Work commencing before permit issuance.** Delete in its entirety and amend to read as follows:

Shall be in conformance with the City of Buckeye Development User Fee Schedule, as amended from time to time.

**109.5 Related fees.** Delete in its entirety and amend to read as follows:

Shall be in conformance with the City of Buckeye Development User Fee Schedule, as amended from time to time.

**109.6 Refunds.** Delete in its entirety and amend to read as follows:

Shall be in conformance with the City of Buckeye Development User Fee Schedule, as amended from time to time.

**112.2.1 Add new section to 112.2 Temporary connection:**

**112.2.1 Lock out/tag out safety program.**

Prior to the approval of temporary power in any form on a construction site, a letter containing the following information shall be on site at the time of the temporary power inspection. The letter shall be from the contractor or property owner and shall include:

1. Address and permit number
2. Description of equipment being energized
3. The name and phone number of a responsible party or parties.
4. Acknowledgment that the safety plan implemented will be maintained and monitored by the responsible parties.

An original signed and dated letter shall be retained by the City of Buckeye until the project is accepted and under a Certificate of Occupancy.

**CHAPTER 2 DEFINITIONS**, is hereby amended to read as follows:

**202 Definitions.** Add the following terms:

**ASSISTED LIVING CENTER**  
**ASSISTED LIVING FACILITY**  
**ASSISTED LIVING HOME**  
**CUSTODIAL CARE**  
**DIRECTED CARE SERVICE** and  
**SUPERVISORY CARE SERVICE** as defined below:

**ASSISTED LIVING CENTER.** An assisted living facility that provides resident rooms or residential units to eleven or more residents.

**ASSISTED LIVING FACILITY.** A residential care institution, including adult foster care, that provides or contracts to provide supervisory care services, personal care services or directed care services on a continuing basis.

**ASSISTED LIVING HOME.** An assisted living facility that provides resident rooms to ten or fewer residents.

**CUSTODIAL CARE.** Non-medical care that helps individuals with activities of daily living, preparation of special diets and self-administration of medication not requiring constant attention of medical personnel. Providers of custodial care are not required to undergo medical training.

**DIRECTED CARE SERVICE.** Care of residents, including personal care services, who are incapable of recognizing danger, summoning assistance, expressing need, or making basic care decisions.

**SUPERVISORY CARE SERVICE.** General supervision, including daily awareness of resident functioning and continuing needs.

**202 Definitions.** Amend the following terms:

**PERSONAL CARE SERVICE.** Delete in its entirety and insert in lieu thereof the following:

**PERSONAL CARE SERVICE.** Assistance with activities of daily living that can be performed by persons without professional skills or professional training and includes the coordination or provision of intermittent nursing services and administration of medications or treatments.

**SWIMMING POOL.** Delete in its entirety and insert in lieu thereof the following:

**SWIMMING POOL.** Private Pool. Any contained body of water used for swimming, recreational bathing or wading purposes that contains eighteen (18) or more inches in depth at any point, and/or eight (8) feet or wider at any point. This includes in-ground, above-ground and on-ground swimming pools, hot tubs, spas or other contained bodies except those exempted by Arizona Revised Statute as amended from time to time.

**SWIMMING POOL.** Semi-Public or Public. Any contained body of water other than a Private Pool that is regulated by the Arizona Department of Environmental Quality or the agency's designee.

**CHAPTER 3 OCCUPANCY CLASSIFICATION AND USE,** is hereby amended as follows:

**308.2 Institutional Group I-1.** Delete in its entirety and replace with the following:

**308.2 Institutional Group I-1.** This occupancy shall include buildings, structures or portions thereof for more than 10 persons who reside on a 24-hour basis in a supervised environment, receive custodial care, and are capable of self-preservation, except as provided for assisted living centers. This group shall include, but not be limited to, the following:

- Alcohol and drug centers
- Assisted living centers
- Congregate care facilities
- Convalescent facilities
- Group homes
- Halfway houses
- Residential board and custodial care facilities

Social rehabilitation facilities  
Any similar facilities developed for similar purposes

**308.2.3 Six to 16 persons receiving custodial care.** Delete in its entirety and replace with the following:

**308.2.3 Six to 10 persons receiving custodial care.** A facility such as above, housing not fewer than six and not more than 10 persons receiving such care, shall be classified as Group R-4.

**308.3 Institutional Group I-2.** Delete in its entirety and replace with the following:

**308.3 Institutional Group I-2.** This occupancy shall include buildings and structures used for medical care on a 24-hour basis for more than five persons who are incapable of self-preservation. This group shall include, but not be limited to, the following:

Foster care facilities  
Detoxification facilities  
Hospitals  
Assisted Living Facilities  
Psychiatric hospitals

**308.3.3 Arizona State Department of Health Facilities.** All facilities as licensed by the State of Arizona Department of Health, further known, but not limited to, as direct care, personal care, supervisory care and behavioral residential agency, housing at least six and not more than 10 persons shall be considered a Group R-4.

**310.4 Residential Group R-3.** Amend Congregate living facilities to read as follows:

*Congregate living facilities* (nontransient) with 10 or fewer occupants

**310.4.1 Care facilities within a dwelling.** Delete in its entirety and replace with the following:

**310.4.1 Care facilities within a dwelling.** Licensed care facilities for 10 or fewer persons receiving care that are within a single-family dwelling are permitted.

**310.5 Residential Group R-4.** Delete in its entirety and replace with the following:

**310.5 Residential Group R-4.** This occupancy shall include buildings, structures or portions thereof for more than five but not more than 10 persons, excluding staff, who reside on a 24-hour basis in a supervised residential environment and receive custodial care. The persons receiving care are capable of self-preservation, except as provided for assisted living homes. This group shall include, but not be limited to, the following:

- Alcohol and drug centers
- Assisted living homes
- Congregate care facilities
- Convalescent facilities
- Group homes
- Halfway houses
- Residential board and custodial care facilities
- Social rehabilitation facilities

Group R-4 occupancies shall meet the requirements for construction as defined for Group R-3 or one- and two-family dwellings, except as otherwise provided for in this code.

**310.5.1 Condition 1.** This occupancy condition shall include facilities licensed to provide supervisory care services, in which occupants are capable of self-preservation by responding to an emergency situation without physical assistance from staff. Condition facilities housing more than 10 persons shall be classified as Group I-2.

**310.5.2 Condition 2.** This occupancy condition shall include facilities licensed to provide personal or directed care services, in which occupants are incapable of self-preservation by responding to an emergency situation without physical assistance from staff. Condition 2 facilities housing more than 10 persons shall be classified as Group I-2.

**CHAPTER 5 GENERAL BUILDING HEIGHTS AND AREAS**, is hereby amended as follows:

**Section 502.1 Address identification.** Delete in its entirety replace with the following:

**502.1 Address identification.** 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. Where access is by means of a private road and the building address cannot be viewed from the public way, a monument, pole or other approved sign or means shall be used to identify the structure. These numbers shall contrast with their background. Address numbers shall be Arabic numerals or alphabet letters. Address numbers shall be maintained.

**502.1.1 Address identification multi-family residential.** Within multi-family residential complexes, the building(s) nearest the street must identify the street number of the complex with minimum eighteen (18) inch high contrasting numbers/letters with a three (3) inch stroke width. All buildings within the complex shall identify the building number/letter with minimum eighteen (18) inch high contrasting numbers/letters with a three (3) inch stroke width. Buildings are required to provide two (2) or more building identification signs per each one hundred (100) feet of the length of the building elevation. All buildings within the complex shall include apartment spread numbers (e.g. Units 201-210) identified with minimum seven (7) inch high contrasting numbers/letters with a one (1) inch stroke width. Each individual unit shall be identified near the unit entryway using minimum four (4) inch high contrasting numbers/letters with a five-eighths (5/8) inch minimum stroke width.

**502.1.2 Address identification commercial/employment.** All commercial and employment buildings shall identify the street number of the building with minimum eighteen (18) inch high contrasting numbers/letters with a three (3) inch stroke width. All commercial and employment buildings within multi-building complexes must identify the building number/letter with minimum eighteen (18) inch high contrasting numbers/letters with a three (3) inch stroke width. Each individual unit shall be identified near the primary unit entryway using minimum six (6) inch high contrasting numbers/letters with a one (1) inch stroke width. 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). Rear doors of commercial buildings with individual suites (strip malls) shall be identified using minimum six (6) inch high contrasting numbers/letters with a one (1) inch stroke width.

**502.1.3 Address identification one- and two-family residential dwellings.** 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).

**CHAPTER 9 FIRE PROTECTION AND LIFE SAFETY SYSTEMS**, is hereby amended as follows:

**901.1 Scope.** Add the following sentences:

Wherever the words “Building Official” appear in Sections 901 through 911 they shall be deleted and the words “Fire Marshal” shall be inserted in lieu thereof. Code sections preceded by [F] shall be considered to be maintained and administered under the International Fire Code. Where there is a conflict regarding fire suppression systems and/or alarms between this code and the Fire Code, as adopted and amended from time to time, by the City of Buckeye, the Fire Code shall prevail.

**901.5 Acceptance tests.** Delete the last sentence and amend to read as follows:

**901.5 Acceptance tests.** It shall be unlawful to use, occupy or furnish any portion of a structure until the fire protection systems of the structure have been tested and approved.

**CHAPTER 10 MEANS OF EGRESS**, is hereby amended as follows:

**Section 1004.9, Posting of occupant load.** Delete the last sentence and add the following:

The sign shall be printed in letters and numbers not less than ¾ inch brush stroke by 2 inches on a contrasting background and read: “As determined by City of Buckeye - Maximum Occupant Load \_\_\_\_\_”. Posted signs shall be maintained by the owner or authorized agent. The number of people occupying the room or space shall not exceed the maximum occupant load posted on the sign as determined by the Building Official.

**Section 1017, Exit access and travel distance**, is hereby amended to read as follows:

**1017.2.2 F-1 and S-1 increase.** Delete in its entirety and insert in lieu thereof the following:

**1017.2.2 F-1 and S-1 increase.** The maximum exit access travel distance shall be 400 feet (122 m) in Group F-1 and S-1 occupancies where all of the following are met:

1. The portion of the building classified as Group F-1 or S-1 is limited to one story in height.

2. The minimum height from the finish floor to the bottom of the ceiling or roof slab or deck is 24 feet (7,315 mm).
3. The building is equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 and Chapter 32 of this code.
4. Additional building access shall be provided in accordance with this code, Sections 3202.1 through 3202.4.

**1017.2.2.1 Group F-1 and S-1 with a storage area greater than 500,000 square feet (46,451 m<sup>2</sup>).** When storage areas in Group F-1 and S-1 occupancies are greater than 500,000 square feet a technical report prepared by an Arizona professional shall be submitted for review and approval by the fire code official. Additional fire protection or life safety systems, or both, may be required by the Fire Marshal.

**CHAPTER 11 ACCESSIBILITY**, Delete in its entirety and replace with the following:

**Section 1101.1 Scope.** Delete in its entirety and replace with the following:

**1101.1 Scope.** The provisions of this chapter and the Arizona Revised Statutes (ARS) Section 41-1492 through 41-1492.12 shall control the design and construction of facilities for accessibility to physically disabled persons.

**Section 1101.2 Design.** Delete in its entirety and replace with the following:

**1101.2 Design.** Buildings and facilities shall be designed and constructed to be accessible in accordance with the, "Arizonans with Disabilities Act" (Arizona Revised Statutes, Title 41, Chapter 9, Article 8), and the "Arizonans with Disabilities Act Implementing Rules" (Arizona Administrative Code, Title 10, Chapter 3, Article 4), which rules incorporate the United States government "2010 Americans with Disabilities Act Accessibility Guidelines for Buildings and Facilities," and shall apply to new construction.

**1103.2.5 Construction Sites.** Amend by adding the following:

**1103.2.5.1 Temporary sales offices/trailers** Temporary sales offices/trailers are required to be accessible. There shall be accessible parking and an accessible route from the accessible parking aisle to the sales office/trailer and throughout the public portion of the sales office/trailer including the design center. Accessible toilet rooms shall be provided according to this code.

**Section 1206, "SOUND TRANSMISSION".** Add new section to read as follows:

**1206.4 Sound attenuation.** All residential buildings or portions of buildings where the public is received, office areas and where normal noise level is low for first occupancy, including libraries, schools and churches, pursuant to building permits issued after December 31, 2001 in order to achieve a maximum interior noise level of forty-five (45) decibels in areas within the noise contours described in ARS section 28-8461, paragraph 9, subdivision (a), (b) or (c), as applicable.

These sound attenuation requirements do not apply to ancillary buildings used in agricultural land use.

If the gross floor area of a structure or project is expanded by less than fifty (50) percent, the requirements of this section apply only to the area of expansion. If the gross floor area of a structure

or project is expanded by fifty (50) percent or more, the requirements of this section apply to the entire structure, except for single family, mobile home, manufactured housing unit or duplex dwellings or any multifamily property used for residential purposes.

The Building Official may approve as an alternative, a certification by an architect or engineer registered pursuant to Title 32, Chapter 1 to achieve a maximum interior noise level of forty-five (45) decibels at time of final construction.

**CHAPTER 16 STRUCTURAL DESIGN**, is hereby amended as follows:

Amend Item 25 in Table 1607.1 to read as follows:

OCCUPANCY OR USE	UNIFORM (psf)	CONCENTRATED (lbs.)
25. Residential One- and two-family dwellings Uninhabitable attics with storage <sup>i,j,k</sup> Habitable attics and sleeping areas (all other provisions to remain unchanged.)	  40 40	    

**CHAPTER 17 SPECIAL INSPECTIONS AND TESTS**, is hereby amended as follows:

**Section 1705.4 Masonry Construction.** Add the following Exceptions:

**Exception 4:** Masonry fences seven feet or less in height above grade.

**Exception 5:** Masonry retaining walls four feet or less in height from bottom of footing to top of wall unless supporting a surcharge or impounding flammable liquids.

**CHAPTER 31 SPECIAL CONSTRUCTION**, is hereby amended by deleting section 3109, Swimming Pools, Spas and Hot Tubs in its entirety and inserting the following:

**Section 3109 Swimming pools, spas and hot tubs.** Delete Section 3109.1 in its entirety and replace with the following:

**Section 3109 Swimming pool enclosures and safety devices.** Swimming pool enclosures and safety devices shall be installed pursuant to A.R.S. § 39-1681 with the following amendments:

Delete C 2 of A.R.S. § 39-1681

Delete D 7 of A.R.S. § 39-1681

**APPENDIX I, PATIO COVERS**, is amended as follows:

**Section I105.1 Design loads** is hereby amended by replacing the words “vertical live load of 10 pounds per square foot” with the words “vertical live load of 20 pounds per square foot.”

**SECTION 15-2-2 RESIDENTIAL CODE**

A. Residential Code Adopted. That certain document designated and marked as the International Residential Code, 2018 Edition, as published by the International Code Council, three (3) paper copies or one (1) paper copy and one (1) electronic copy of which are on file in the office of the city clerk, is hereby adopted by reference as if fully set forth herein and it is hereby declared to be unlawful to be in violation of any provision of the city's uniform code or cause or permit the same to be done, contrary to or in violation of any of the provisions of the city's uniform code as hereby adopted by the city council.

B. City of Buckeye Amendments to the 2018 International Residential Code.

**CHAPTER 1 SCOPE AND ADMINISTRATION**, is hereby amended as follows:

**R101.1 Title.** Insert the words “City of Buckeye” as the name of jurisdiction.

**R101.2 Scope.** Add the following subsection:

**R101.2.1 Residential photovoltaic systems.** Residential Photovoltaic Systems shall be installed per the 2017 National Electric Code as adopted by the City of Buckeye and amended from time to time.

**R102.5 Appendices.** Provisions in the appendices shall not apply unless specifically referenced in the adopting ordinance. 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 AND TYPE B VENTS
APPENDIX C	EXIT TERMINALS OF MECHANICAL DRAFT AND DIRECT- VENT VENTING SYSTEMS
APPENDIX D	RECOMMENDED PROCEDURE FOR SAFETY INSPECTION OF AN EXISTING APPLIANCE INSTALLATION
APPENDIX E	MANUFACTURED HOUSING USED AS DWELLINGS
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APPENDIX I	PRIVATE SEWAGE DISPOSAL
APPENDIX J	EXISTING BUILDINGS AND STRUCTURES
APPENDIX K	SOUND TRANSMISSION
APPENDIX P	SIZING OF WATER PIPING SYSTEM
APPENDIX Q	TINY HOUSES
APPENDIX T	SOLAR-READY PROVISIONS---DETACHED ONE- AND TWO- FAMILY DWELLINGS AND TOWNHOUSES

**R102 Applicability**, is hereby amended as follows:

**R102.7 Existing structures.** Any references to the International Property Maintenance Code shall be deleted and the words “Property Maintenance Code as adopted by the City of Buckeye and amended from time to time” shall be inserted in lieu thereof.

**R105 Permits**, is hereby amended as follows:

**R105.2 Work exempt from permit.** Amended to read as follows:

- 2) Fences not over 3 feet high
- 3) Delete
- 7) Prefabricated swimming pools accessory to a Group R-3 occupancy that have a water depth that is 18 inches or less in depth at any point and narrower than 8 feet at any point.

**R105.3.2 Time limitation of application.** Delete in its entirety and amend to read as follows:

Shall be in conformance with the City of Buckeye Development User Fee Schedule, as amended from time to time.

**R105.4 Validity of permit.** Delete in its entirety and amend to read as follows:

Shall be in conformance with the City of Buckeye Development User Fee Schedule, as amended from time to time.

**R105.5 Expiration.** Delete in its entirety and amend to read as follows:

Shall be in conformance with the City of Buckeye Development User Fee Schedule, as amended from time to time.

**R105.6 Suspension or revocation.** Delete in its entirety and amend to read as follows:

Shall be in conformance with the City of Buckeye Development User Fee Schedule, as amended from time to time.

**R108 Fees.** Fees is hereby amended as follows:

**Section 108.3 Building permit valuations.** Delete in its entirety and amend to read as follows:

Shall be in conformance with the City of Buckeye Development User Fee Schedule, as amended from time to time.

**Section 108.5 Refunds.** Delete in its entirety and amend to read as follows:

Shall be in conformance with the City of Buckeye Development User Fee Schedule, as amended from time to time.

**Section R108.6 Work commencing before permit issuance.** Delete in its entirety and amend to read as follows:

Shall be in conformance with the City of Buckeye Development User Fee Schedule, as amended from time to time.

**R109 Inspections.** Inspections is hereby amended as follows:

**Section R109.1.5 Other inspections.** Add the following subsection:

**R109.1.5.2 Lath or gypsum board inspection.** Inspection of the lath or gypsum board shall be made after all lathing and gypsum board, interior and exterior, is in place, but before any plastering is applied or before gypsum board joints and fasteners are taped and finished.

**R110 Certificate of Occupancy,** is hereby amended to read as follows:

**R110.2 Change in use.** Add the following words to the end of the sentence: “as adopted by the City of Buckeye and amended from time to time.”

**CHAPTER 2 DEFINITIONS,** is hereby amended to read as follows:

**[RB] FIRE SEPARATION DISTANCE.** The distance measured from the building face to one of the following:

1. To the closest interior lot line.
2. To the centerline of a street, an alley or public way.
3. To an imaginary line between two buildings on the lot.
4. The distance shall be measured at a right angle from the face of the wall framing.

**CHAPTER 3 BUILDING PLANNING,** is hereby amended to read as follows:

**Table R301.2(1),** is hereby modified to read as follows:

**CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA**

Ground Snow Load <sup>o</sup>	Speed <sup>d</sup> (mph) Exposure C	Seismic Design Category <sup>f</sup>	Subject To Damage From			Winter Design Temp <sup>e</sup>	Ice Shield Under-Layment Required <sup>h</sup>	Flood Hazards <sup>g</sup>	Air Freezing Index <sup>i</sup>	Mean Annual Temp <sup>j</sup>
			Weathering <sup>a</sup>	Frost Line Depth <sup>b</sup>	Termite <sup>c</sup>					
N/A	115 mph Exposure C	B	Moderate	N/A	Moderate to Heavy	34°F		Jurisdiction Specific		

(Footnotes in Table R301.2(1) remain unchanged)

Modify **Table R301.5**, in part, to read as follows:

**TABLE R301.5**  
**MINIMUM UNIFORMLY DISTRIBUTED LIVE LOADS**  
(In pounds per square foot)

USE	LIVE LOAD
Attics with storage <sup>b</sup>	40
Attics without storage <sup>b, g</sup>	40
Sleeping rooms	40

**Footnotes a through h to remain unchanged.**

**Table R302.6 Dwelling-Garage Separation.** Delete in its entirety and replace with the following:

**TABLE R302.6 DWELLING/GARAGE SEPARATION**

SEPARATION	MATERIAL
All garage walls and ceilings	Not less than <sup>5</sup> / <sub>8</sub> -inch gypsum board or equivalent applied to the garage side
From all habitable rooms above the garage	Not less than two layers of <sup>5</sup> / <sub>8</sub> -inch Type X gypsum board or equivalent
Structure(s) supporting floor/ceiling assemblies used for separation	Not less than two layers of <sup>5</sup> / <sub>8</sub> -inch gypsum board or equivalent
Garages located less than 3 feet from a dwelling unit on the same lot	Not less than <sup>1</sup> / <sub>2</sub> -inch gypsum board or equivalent applied to the interior side of exterior walls that are within this area

**R303 LIGHT, VENTILATION AND HEATING**, is hereby amended as follows:

Add the following Sub-section Section **R303.11 Air Conditioning** to read as follows:

**R303.11 Air Conditioning.** Every dwelling unit shall be provided air conditioning facilities capable of maintaining room temperatures between at or below 90°F (32°C) at a point 3 feet (914 mm) above the floor and 2 feet (610 mm) from exterior walls in all habitable rooms. The installation of one or more portable air conditioning units shall be permitted to achieve compliance with this section when their installation is compliant with the electrical code, mechanical code and does not block the only emergency means of egress from a sleeping room. Evaporative coolers shall not be used as the sole means to achieve compliance with this section.

**R305 CEILING HEIGHT**, is hereby amended to read as follows:

**R305 Ceiling height.**

**R305.1 Minimum height.**

Habitable space, hallways, bathrooms, toilet rooms, laundry rooms and portions of basements containing these spaces shall have a ceiling height of not less than 7 feet 6 inches.

**Exceptions:**

1. For rooms with sloped ceilings, at least 50 percent of the required floor area of the room must have a ceiling height of at least 7 feet 6 inches and no portion of the required floor area may have a ceiling height of less than 5 feet 6 inches.
2. Bathrooms shall have a minimum ceiling height of 7 feet at the center of the front clearance area for fixtures as shown in Figure R307.1. The ceiling height above fixtures shall be such that the fixture is capable of being used for its intended purpose. A shower or tub equipped with a showerhead shall have a minimum ceiling height of 6 feet 8 inches (2032 mm) above a minimum area 30 inches (762 mm) by 30 inches (762 mm) at the showerhead.

**R305.1.1 Basements.** Portions of basements that do not contain habitable space, hallways, bathrooms, toilet rooms and laundry rooms shall have a ceiling height of not less than 7 feet.

**Exception:** Beams, girders, ducts or other obstructions may project to within 6 feet 8 inches of the finished floor.

**R309.5 Fire sprinklers.** Delete in its entirety and replace with the following:

**R309.5 Fire sprinklers.** Fire sprinklers shall be required per the International Fire Code as adopted by the City of Buckeye and amended from time to time.

**R312 GUARDS AND WINDOW FALL PROTECCION,** shall be amended as follows:

**R312.1.3 Opening limitations.** Add the following sentence to the end of the first paragraph:  
"Required guards shall not be constructed with horizontal rails or other ornamental pattern that results in a ladder effect."

**R313 AUTOMATIC FIRE SPRINKLER SYSTEMS.** Delete in its entirety and replace with the following:

**R313 AUTOMATIC FIRE SPRINKLER SYSTEMS.**

**R313.1 Automatic fire sprinkler systems for townhouses and one- and two-family dwellings.** Fire sprinklers shall be required per the International Fire Code as adopted by the City of Buckeye and amended from time to time.

**R314.3 Location.** Amend by adding the following item #5:

5. Where the ceiling height of a room open to the hallway servicing bedrooms exceeds that of the hallway by 24 inches or more, smoke detectors shall be installed in the hallways and in the adjacent room.

**CHAPTER 11 ENERGY EFFICIENCY,** is hereby deleted in its entirety and amended to read as follows:

**Chapter 11 [RE] - Energy efficiency.** The requirements for energy efficiency shall be governed by the International Energy Conservation Code as adopted and amended from time to time by the City of Buckeye.

**CHAPTER 13 GENERAL MECHANICAL SYSTEM REQUIREMENTS,** is hereby amended to read as follows:

**M1307.3 Elevation of ignition source.** Add the following exception:

**Exception:** Clothes dryers installed in private garages.

**CHAPTER 15 EXHAUST SYSTEMS,** is hereby amended to read as follows:

**M1503.6 Makeup air required** is hereby amended to read as follows:

**M1503.6 Makeup air required.** Where one or more gas, liquid or solid fuel-burning appliance that is neither direct-vent nor uses a mechanical draft venting system is located within a dwelling unit's air barrier, each exhaust system capable of exhausting in excess of 400 cubic feet per minute (0.19 m<sup>3</sup>/s) shall be mechanically or passively provided with makeup air at a rate approximately equal to the difference between the exhaust air rate and 400 cubic feet per minute. Such makeup air systems shall be equipped with no fewer than one damper complying with Section M1503.6.2.

**Exception:** Makeup air is not required for exhaust systems installed for the exclusive purpose of space cooling and intended to be operated only when windows or other air inlets are open.

**CHAPTER 24 FUEL GAS,** is hereby amended to read as follows:

**G2415.12 (IFGC 404.12) Minimum burial depth.** Underground piping systems shall be installed a minimum depth of 12 inches (305 mm) below grade for metal piping and 18 inches (457mm) for plastic piping.

**G2415.12.1 Individual outside appliances.** Delete in its entirety.

**CHAPTER 28 WATER HEATERS,** is hereby amended to read as follows:

**P2804.6.1 Requirements for discharge pipe.** Delete item 2 in its entirety and replace with the following:

- (2) Discharge through an air gap located in the same room as the water heater except where the discharge is to the outdoors, not subject to freezing and the piping terminates not less than 6 inches (152 mm) and not more than 12 inches (305mm) above grade.

Add item 15 to read as follows:

15. Direct the discharge in a downward direction.

**CHAPTER 29 WATER SUPPLY AND DISTRIBUTION**, is hereby amended to read as follows:

**P2903.7 Size of water-service mains, branch mains and risers.** Delete in its entirety and replace with the following:

**P2903.7 Size of water-service mains, branch mains and risers.** The minimum size of the water service pipe shall be not less than 1 inch in diameter. The size of water service mains, branch mains and risers shall be determined according to water supply demand [gpm (L/m)], available water pressure [psi (kPa)] and friction loss caused by the water meter and developed length of pipe [feet (m)], including equivalent length of fittings. The size of each water distribution system shall be determined according to design methods conforming to acceptable engineering practice, such as those methods in Appendix P and shall be approved by the building official.

**CHAPTER 30 SANITARY DRAINAGE**, is hereby amended as follows:

**Section P3007.4 Sewage pumps and sewage ejectors.** Delete in its entirety and replace with the following:

**P3007.4 Sewage pumps and sewage ejectors.** Sewage pumps or sewage ejectors shall automatically discharge the contents of the sump to the building drainage system. Where sewage ejector pumps are used, two (2) sump pumps shall be required in all applications except R-3. The pumps shall operate alternately and in the event of pump failure or obstruction they shall be equipped with both visual and audible alarms located in a conspicuous place in a normally occupied area.

**CHAPTER 37 BRANCH CIRCUIT AND FEEDER REQUIREMENTS**, is hereby amended as follows:

**E3703.2 Kitchen and dining area receptacles** is hereby deleted in its entirety and shall read as follows:

**E3703.2 Kitchen and dining room receptacles.** A minimum of two 20-ampere-rated branch circuits shall be provided to serve receptacles located in the kitchen, pantry, breakfast area and dining area. The kitchen countertop receptacles shall be served by a minimum of two 20-ampere-rated branch circuits, either or both of which shall also be permitted to supply other receptacle outlets in the kitchen, pantry, breakfast area and dining area. The receptacle outlet for refrigeration equipment shall be supplied from an individual branch circuit rated 15 amperes or greater. Dishwashers and disposals must be on separate circuits if they are more than eighty percent (80%) of the circuit load.

**CHAPTER 41 APPLIANCE INSTALLATION**, is hereby amended to read as follows:

**E4101.5 Disconnecting means.** Add the following sentence to the end of the paragraph:

A disconnecting means shall be installed immediately adjacent to the water heater.

**APPENDIX E MANUFACTURED HOUSING USED AS DWELLING UNITS**, is hereby deleted in its entirety and amended as follows:

**APPENDIX E:** Delete in its entirety and amend to read as follows: Shall be as required by the State Office of Manufactured Housing Regulations.

**APPENDIX H PATIO COVERS,** is here by amended to read as follows:

**AH 105.1 Design loads** is hereby amended by replacing the words “vertical live load of 10 pounds per square foot” with the words “vertical live load of 20 pounds per square foot”.

**APPENDIX I PRIVATE SEWAGE DISPOSAL,** is hereby deleted in its entirety and replaced with the following:

**APPENDIX I:** Shall be as required by the Maricopa County Department of Environmental Services.

### **SECTION 15-2-3 MECHANICAL CODE**

- A. Mechanical Code Adopted. That certain document designated and marked as the International Mechanical Code, 2018 Edition, as published by the International Code Council, three (3) paper copies or one (1) paper copy and one (1) electronic copy of which are on file in the office of the city clerk, is hereby adopted by reference as if fully set forth herein and it is hereby declared to be unlawful to be in violation of any provision of the city's uniform code or cause or permit the same to be done, contrary to or in violation of any of the provisions of the city's uniform code as hereby adopted by the city council.
- B. City of Buckeye Amendments to the 2018 International Mechanical Code.

**CHAPTER 1 ADMINISTRATION,** is hereby amended as follows:

**R101.1 Title.** Insert the words “City of Buckeye” as the name of jurisdiction.

**Section 101.2.1 Appendices.** Delete in its entirety and replace with the following:

**101.2.1 Appendices.** The following appendix of the 2018 International Mechanical Code is adopted by the City of Buckeye:

#### **Appendix A.**

**106.4.4 Extensions.** Delete in its entirety and replace with the following: In conformance with the City of Buckeye Development User Fee Schedule, as amended from time to time.

**106.5.1 Work commencing before permit issuance.** Delete in its entirety and replace with the following: In conformance with the City of Buckeye Development User Fee Schedule, as amended from time to time.

**106.5.2 Fee schedule.** Delete in its entirety and replace with the following: In conformance with the City of Buckeye Development User Fee Schedule, as amended from time to time.

**106.5.3 Fee refunds.** Delete in its entirety and replace with the following: In conformance with the City of Buckeye Development User Fee Schedule, as amended from time to time.

**108.5 Stop work order.** Amend the last sentence as follows: "Any person who shall continue any work on the system after having been served by a stop work order, except such work as that person is

directed to perform to remove a violation or unsafe condition, shall be liable for a fine as established by the City of Buckeye."

**CHAPTER 3 GENERAL REGULATIONS**, is hereby amended as follows:

**Section 303.3 Prohibited locations.** Add the following subsection:

6. Gas fired appliances with natural draft venting shall not be installed in any room operating under negative pressure unless the appliances are listed for that use.

**Section 304.3 Elevation of ignition source.** Add the following exception:

**Exception:** Clothes dryers and washing machines installed in private garages.

**CHAPTER 10 BOILERS, WATER HEATERS AND PRESSURE VESSELS**, is hereby amended as follows:

**Section 1004 Boilers**, is amended as follows:

**Section 1004.1 Standards.** Delete in its entirety and replace with the following:

**1004.1 Standards.** Oil-fired boilers and their control systems shall be listed and labeled in accordance with UL 726. Electric boilers and their control systems shall be listed and labeled in accordance with UL 834. Boilers shall be designed and constructed in accordance with the ASME Boiler and Pressure Vessel Code, and the Arizona Administrative Code, Arizona Boilers and Lined Hot Water Heaters, Title 20, Chapter 5, Article 4 (A.A.C. R20-5-401 through -432, as amended).

#### **SECTION 15-2-4 PLUMBING CODE**

- A. Plumbing Code Adopted. That certain document designated and marked as the International Plumbing Code, 2018 Edition, as published by the International Code Council, three (3) paper copies or one (1) paper copy and one (1) electronic copy of which are on file in the office of the city clerk, is hereby adopted by reference as if fully set forth herein and it is hereby declared to be unlawful to be in violation of any provision of the city's uniform code or cause or permit the same to be done, contrary to or in violation of any of the provisions of the city's uniform code as hereby adopted by the city council.
- B. City of Buckeye Amendments to the 2018 International Plumbing Code.

**CHAPTER 1 SCOPE AND ADMINISTRATION**, is hereby amended as follows:

**Section 101.1 Title.** Insert the words "City of Buckeye" as the name of jurisdiction.

**Section 101.2 Scope.** Delete the last sentence in its entirety and replace with the following:

“The following Appendices of the 2018 International Plumbing Code are adopted by the City of Buckeye:

**Appendix E –Sizing of Water Piping System”**

**Section 106.5.4 Extensions.** Delete in its entirety and replace with the following: In conformance with the City of Buckeye Development User Fee Schedule, as amended from time to time.

**Section 106.6.1 Work commencing before permit issuance.** Delete in its entirety and replace with the following: In conformance with the City of Buckeye Development User Fee Schedule, as amended from time to time.

**Section 106.6.2 Fee schedule.** Delete in its entirety and replace with the following: In conformance with the City of Buckeye Development User Fee Schedule, as amended from time to time.

**Section 106.6.3 Fee refunds.** Delete in its entirety and replace with the following: In conformance with the City of Buckeye Development User Fee Schedule, as amended from time to time.

**Section 108.5 Stop work orders.** Delete in its entirety and replace with the following:

**108.5 Stop work orders.** Upon notice from the code official, work on any plumbing system that is being done contrary to the provisions of this code or in a dangerous or unsafe manner shall immediately cease. Such notice shall be in writing and shall be given to the owner of the property, or to the owner’s agent, or to the person doing the work. The notice shall state the conditions under which work is authorized to resume. Where an emergency exists, the code official shall not be required to give a written notice prior to stopping the work. Any person, who shall continue any work on the system after having been served by a stop work order except such work as that person is directed to perform to remove a violation or unsafe condition, shall be liable for civil or criminal penalties and fines as established by the City of Buckeye.

**CHAPTER 3 GENERAL REGULATIONS,** is hereby amended as follows:

**Section 305.4 Freezing** is amended to read as follows:

**305.4.1 Sewer depth.** Building sewers that connect to private sewage disposal systems shall be installed not less than 12 inches (305 mm) below finished grade at the point of septic tank connection. Building sewers shall be installed not less than 12 inches (305 mm) below grade.

**CHAPTER 6 WATER SUPPLY AND DISTRIBUTION,** is hereby amended as follows:

**Section 603, Size of water service pipe,** is amended to read 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 not less than 1 inch. The replacement of existing water service pipe shall not be less in size than the size of the pipe being replaced.

**CHAPTER 7 SANITARY DRAINAGE**, is hereby amended to read as follows:

**Section 712.4, Sewage pumps and sewage ejectors**, is hereby amended to read as follows:

**712.4 Sewage pumps and sewage ejectors.** Where sewage ejector pumps are used, two (2) sump pumps shall be required in all applications except R-3. The pumps shall operate alternately and in the event of pump failure or obstruction they shall be equipped with both visual and audible alarms located in a conspicuous place in a normally occupied area.

**CHAPTER 11 STORM DRAINAGE**, is hereby amended to read as follows:

**Section 1106, Size of Conductors, Leaders and Storm Drains**, is hereby amended to read as follows:

**1106.1 General.** The size of the vertical conductors and leaders, building storm drains, building storm sewers, and any horizontal branches of such drains or sewers shall be based on 6” (inches) of rainfall per hour.

**CHAPTER 12 SPECIAL PIPING AND STORAGE SYSTEMS**, is hereby amended as follows:

**Section 1202, Medical Gases**, is hereby amended by adding one additional subsection to read as follows:

**1202.1.1 Level 3 dental facilities.** Vacuum piping installed under an on-grade floor shall be installed in compliance with recommendations and drawings prepared by a registered design professional and contained within the dental equipment manufacturer’s specifications and details, and with the otherwise applicable provisions of NFPA 99 most recent published edition. All drawings and specifications shall be sufficiently comprehensive as to provide prescriptive installation criteria. Special inspection in accordance with IBC Section 1704.1 shall be provided.

## **SECTION 15-2-5 ELECTRICAL CODE**

- A. Electrical Code Adopted. That certain document designated and marked as the National Electrical Code, 2017 Edition, as published by the National Fire Protection Association, three (3) paper copies or one (1) paper copy and one (1) electronic copy of which are on file in the office of the city clerk, is hereby adopted by reference as if fully set forth herein and it is hereby declared to be unlawful to be in violation of any provision of the city's uniform code or cause or permit the same to be done, contrary to or in violation of any of the provisions of the city's uniform code as hereby adopted by the city council.
- B. City of Buckeye Amendments to the 2017 National Electrical Code.

**Article 90 Introduction**, is hereby amended as follows:

### **Section 90.1, Purpose.**

**(A) Practical safeguarding.** Add the following after the first paragraph:

Any and all electrical work for light, heat, power or any other purposes shall be installed in conformity with the rules and regulations as set forth in the Buckeye Electrical Code, as adopted and

amended from time to time, and in conformity with the rules and regulations as set forth by the Building Official.

**(D) Administrative code.** Add the following subsection:

**(D) Administrative code.** The International Building Code, 2018 Edition, Chapter One, as adopted by the City of Buckeye and amended from time to time, shall be considered the Administrative Code for this sub-section.

**Article 90.6, Formal interpretations,** is amended as follows:

**90.6 Formal interpretations.** To promote uniformity of interpretation and application of the provisions of this Code, Appendix B: Board of Appeals of the Buckeye Building Code, as adopted by the city and amended from time to time, shall provide established procedures for appeals of interpretation under this Section.

**Article 110.7, Wiring integrity** is hereby amended by adding the following sentence:

All electrical equipment 1000 amps or larger must pass a dielectric strength test by a qualified third party before requesting a meter clearance.

**Article 230, Services,** is amended by adding the following subsection:

**230.63 Location.** All service equipment located inside a building shall be enclosed within a room or space separated from the rest of the building by not less than one-hour fire-resistive occupancy separation or fire barrier installed in compliance with the building code.

**Article 350, Liquidtight Flexible Metal Conduit (Type LFMC)** is hereby amended as follows:

**Article 358.12, Uses not permitted,** is amended by adding the following:

(7) Ferrous or nonferrous EMT, elbows, couplings, and fittings shall not be permitted to be installed in concrete, in the earth, or in areas subject to severe corrosive influences.

**Article 422.31, Disconnection of permanently connected appliances** is hereby amended by adding the following exception:

(1) Water heaters shall have a disconnecting means immediately adjacent to the water heater.

## **SECTION 15-2-6 FUEL GAS CODE**

- A. Fuel Gas Code Adopted. That certain document designated and marked as the International Fuel Gas Code, 2018 Edition, as published by the International Code Council, three (3) paper copies or one (1) paper copy and one (1) electronic copy of which are on file in the office of the city clerk, is hereby adopted by reference as if fully set forth herein and it is hereby declared to be unlawful to be in violation of any provision of the city's uniform code or cause or permit the same to be done, contrary to or in violation of any of the provisions of the city's uniform code as hereby adopted by the city council.
- B. City of Buckeye Amendments to the 2018 International Fuel Gas Code.

**CHAPTER 1 ADMINISTRATION**, is hereby amended as follows:

**Section 101.1 Title.** Insert the words “City of Buckeye” as the name of jurisdiction.

**Section 101.3 Appendices.** Delete in its entirety and replace with the following:

**101.3 Appendices.** The following appendices are adopted by the City of Buckeye:

APPENDIX A	SIZING AND CAPACITIES OF GAS PIPING,
APPENDIX B	SIZING OF VENTING SYSTEMS SERVING APPLIANCES EQUIPPED WITH DRAFT HOODS, CATEGORY 1 APPLIANCES AND APPLIANCES LISTED FOR USE WITH TYPE B VENTS,
APPENDIX C	EXIT TERMINALS OF MECHANICAL DRAFT AND DIRECT- VENT VENTING SYSTEMS.

**Section 106.5.4 Extensions.** Delete in its entirety and replace with the following: In conformance with the City of Buckeye Development User Fee Schedule, as amended from time to time.

**Section 106.6.1 Work commencing before permit issuance.** Delete in its entirety and replace with the following: In conformance with the City of Buckeye Development User Fee Schedule, as amended from time to time.

**Section 106.6.2 Fee schedule.** Delete in its entirety and replace with the following: In conformance with the City of Buckeye Development User Fee Schedule, as amended from time to time.

**Section 106.6.3 Fee refunds.** Delete in its entirety and replace with the following: In conformance with the City of Buckeye Development User Fee Schedule, as amended from time to time.

**Section 108.4 Violation penalties.** Delete in its entirety.

**Section 108.5 Stop work order.** Amended to read as follows:

**108.5 Stop work order.** The last sentence is amended to read:

“Any person who shall continue any work on the system after having been served by a stop work order, except such work as that person is directed to perform to remove a violation or unsafe condition, shall be liable for civil or criminal penalties and fines as established by the City of Buckeye.”

**CHAPTER 2 DEFINITIONS**, is hereby amended to read as follows:

**201.4 Terms not defined.** Where terms are not defined through the methods authorized by this chapter, such terms shall have ordinarily accepted meanings such as the context implies.

**CHAPTER 4 GAS PIPING INSTALLATIONS**, is hereby amended as follows:

**Section 404.12.1 Individual outside appliances.** Delete in its entirety.

**Section 406.4.1 Test pressure.** Delete in its entirety and replace with the following:

**406.4.1 Test pressure.** The test pressure to be used shall be no less than 1 ½ times the proposed maximum working pressure, but no less than 3 psig (20 kPa gauge) for 15 minutes, the acceptable air gauge shall be calibrated in 1/10 lb increments. Where the test pressure exceeds 125 psig (862 kPa gauge), irrespective of design pressure, the test pressure shall not exceed a value that produces a hoop stress in the piping greater than 50 percent of the specified minimum yield strength of the pipe.

## **SECTION 15-2-7 ENERGY CONSERVATION CODE**

- A. Energy Conservation Code Adopted. That certain document designated and marked as the International Energy Conservation Code, 2018 Edition, as published by the International Code Council, three (3) paper copies or one (1) paper copy and one (1) electronic copy of which are on file in the office of the city clerk, is hereby adopted by reference as if fully set forth herein and it is hereby declared to be unlawful to be in violation of any provision of the city's uniform code or cause or permit the same to be done, contrary to or in violation of any of the provisions of the city's uniform code as hereby adopted by the city council.
- B. City of Buckeye Amendments to the 2018 International Energy Conservation Code.

**CHAPTER 1 [CE] SCOPE AND ADMINISTRATION,** is hereby amended as follows:

### **PART 1---SCOPE AND APPLICATION**

#### **C101 SCOPE AND GENERAL REQUIREMENTS**

**C101.1 Title.** Insert the words “City of Buckeye” as the name of jurisdiction.

**C101.2 Scope.** Amend by adding the following to the end of the Section:

Group R-2 when defined as a Commercial Building by section C202, shall have the option of complying under the Residential Provisions of the code, regardless of height. Once defined as such on the submittal documents, all components of the Residential Provisions shall be followed.

**C104.2 Schedule of permit fees.** Delete in its entirety and replace with the following: In conformance with the City of Buckeye Development User Fee Schedule, as amended from time to time.

**C104.3 Work commencing before permit issuance.** Delete in its entirety and replace with the following: In conformance with the City of Buckeye Development User Fee Schedule, as amended from time to time.

**C104.5 Refunds.** Delete in its entirety and replace with the following: In conformance with the City of Buckeye Development User Fee Schedule, as amended from time to time.

**C401.2 Application.** Amend to read as follows:

#### **C401.2 Application.**

Commercial buildings shall comply with one of the following:

1. The requirements of ANSI/ASHRAE/IESNA 90.1.

2. The requirements of Sections C402 through C405. In addition, commercial buildings shall comply with Section C406 and tenant spaces shall comply with Section C406.1.1
3. The requirements of Sections C402.5, C403.2, C403.3 through C403.3.2, C403.4 through C403.4.2.3, C403.5.5, C403.7, C403.8.1 through C403.8.4, C403.10.1 through C403.10.3, C403.11, C403.12, C404, C405, and C407. The building energy cost shall be equal to or less than 85 percent of the standard reference design building.
4. Compliance with the provisions of Section C408 are optional.

**CHAPTER 1 [RE] SCOPE AND ADMINISTRATION**, is hereby amended as follows:

**PART 1---SCOPE AND APPLICATION**

**R101 SCOPE AND GENERAL REQUIREMENTS**

**R101.1 Title.** Insert the words “City of Buckeye” as the name of jurisdiction.

**R101.2 Scope.** Amend by adding the following to the end of the Section:

Group R-2 when defined as a Commercial Building by section C202, shall have the option of complying under the Residential Provisions of the code, regardless of height. Once defined as such on the submittal documents, all components of the Residential Provisions shall be followed.

**R102 Alternative Materials, Design and Methods of Construction and Equipment.** Section 102.1.1 Above code programs. Add the following subsection:

**R102.1.1.1 RESNET testing & inspection protocol.** The Residential Energy Services Network (RESNET) Mortgage Industry National Home Energy Rating System Standards Protocol for third party testing and inspections, shall be deemed to meet the requirements of sections N1102.4.1.1, N1102.4.1.2 and N1103.2.2. and shall meet the following conditions:

Third Party Testing and Inspections shall be completed by RESNET certified Raters or Rating Field Inspectors and shall be subject to RESNET Quality Assurance Field Review procedures.

Sampling in accordance with Chapter 6 of the RESNET Standards shall be performed by Raters or Rating Field Inspectors working under a RESNET Accredited Sampling Provider.

Third Party Testing is required for the following items:

- 402.4.1.1 – Building Envelope – Thermal and Air Barrier Checklist.
- R402.4.1.2 – Testing – Air Leakage Rate.
- R403.2.2 – Sealing – Duct Tightness.

The other requirements identified as “mandatory” in Chapter 4 shall be met.

Alternate testing and inspection programs and protocols shall be allowed when approved by the Building Official.

**R107.3 Work commencing before permit issuance.** Delete in its entirety and replace with the following: In conformance with the City of Buckeye Development User Fee Schedule, as amended from time to time.

**CHAPTER 4 [RE] RESIDENTIAL ENERGY EFFICIENCY**, is hereby amended to read as follows:

**Section R401.2 Compliance.** Delete in its entirety and replace with the following:

**R401.2 Compliance.** Projects shall comply with Sections identified as “mandatory” and with either sections identified as “prescriptive” or the performance approach in Section R405.

**R401.2.1 Alternative approach for compliance.** A Home Energy Rating System (“HERS”) Index of 64 or less, confirmed in writing by a Residential Energy Services Network certified energy rater may be used in place of the approach described in section 401.2 above. Compliance may be demonstrated by sampling in accordance with Chapter 6 of the Mortgage Industry National Home Energy Rating Systems Standard as adopted by the Residential Energy Services Network.

**R403.3.1 Insulation (Prescriptive).** Delete in its entirety and replace with the following:

**R403.3.1 Insulation (Prescriptive).** Supply ducts in attics shall be insulated to a minimum of R-8. Ducts in floor trusses shall be insulated to a minimum of R-6.

**Exceptions:**

1. Ducts or portions thereof located completely inside the building thermal envelope.
2. Supply ducts may be insulated to a minimum of R-6 when one or more of the following conditions are met:
  - 2.1 Minimum SEER rating of space heating/cooling system is increased to 15, except that effective January 1, 2023 the minimum SEER rating of space heating/cooling system is increased to 16 as part of the Department of Energy minimum SEER rating requirements.
  - 2.2 Maximum U-factor is decreased to 0.35 and maximum SHGC is decreased to 0.22 for all fenestration products.
  - 2.3 Wall cavity insulation minimum R-value is increased to R-19.
  - 2.4 Residential buildings that meet the requirements of sections R102.1.1 or R405.
  - 2.5 Residential buildings with attic radiant barriers in accordance with ASTM C1313, installed in accordance with ASTM C1743.

**SECTION 15-2-9 EXISTING BUILDING CODE**

- A. Existing Building Code Adopted. That certain document designated and marked as the International Existing Building Code, 2018 Edition, as published by the International Code Council, three (3) paper copies or one (1) paper copy and one (1) electronic copy of which are on file in the office of the city clerk, is hereby adopted by reference as if fully set forth herein and it is hereby declared to be unlawful to be in violation of any provision of the city's uniform code or cause or permit the same to be done, contrary to or in violation of any of the provisions of the city's uniform code as hereby adopted by the city council.
- B. City of Buckeye Amendments to the 2018 International Existing Building Code.

**CHAPTER 1 SCOPE AND ADMINISTRATION**, is hereby amended to read as follows:

**101.1 Title.** Insert the words “City of Buckeye” as the name of jurisdiction.

**101.2 Scope.** Insert the words “when approved by the Building Official” at the end of the sentence.

**105.3.2 Time limitation of application.** Delete in its entirety and replace with the following: In conformance with the City of Buckeye Development User Fee Schedule, as amended from time to time.

**108.2 Schedule of permit fees.** Delete in its entirety and replace with the following: In conformance with the City of Buckeye Development User Fee Schedule, as amended from time to time.

**108.4 Work commencing before permit issuance.** Delete in its entirety and replace with the following: In conformance with the City of Buckeye Development User Fee Schedule, as amended from time to time.

**108.6 Refunds** Delete in its entirety and replace with the following: In conformance with the City of Buckeye Development User Fee Schedule, as amended from time to time.