



BOARD OF SUPERVISORS AGENDA ITEM REPORT

Requested Board Meeting Date: October 16, 2018

Title: Ordinance Adopting by reference 2018 International Building Code, 2018 Building- related technical Codes and local amendments.

Introduction/Background:

Building-related technical model codes are promulgated on a three year cycle by national organizations to establish minimum requirements to safeguard the public health, safety and general welfare through structural strength, means of egress, stability, sanitation, adequate light and ventilation, energy conservation, systems efficiency and safety to life and property. A decision to adopt new codes is generally considered by a regional code committee comprised of Cities, Towns and County building officials and representatives from private industry. Pima County has adopted these codes and include them by reference in Title 15 of the Pima County Code. Due to the severe economic recession affecting construction, the committee decided to retain the 2012 code cycle through 2018 so as not to exacerbate the limited resources of both industry and government. *Now is the time to adopt the 2018 codes.*

Discussion:

Amendment Process:

Starting in January, the County/City Building Code Committee held 10 public meetings with a goal to strive for uniformity across jurisdictions, regionally and nationally. In order to achieve uniformity, the standard of review was to limit local amendments to those elements differentiated from national standards by a local geographic condition, climatic condition or State requirement.

The resulting proposed amendments were vetted in part with the Joint County/City Building Code Committee. The membership of this committee represents the major building construction industry groups: Alliance of Construction Trades (ACT), American Institute of Architects (AIA), American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE), Arizona Builders Alliance (ABA), Southern Arizona Home Builders Association (SAHBA) and Structural Engineer's Association (SEA).

The Building Code Committee members have unanimously recommended the vetted proposed package for adoption. State law states that the largest municipality in the jurisdiction needs to adopt the code before the county can consider it. The City of Tucson is scheduled to consider this October 9th. If for some reason, this decision is delayed or the adoption is rejected, that would delay the Board consideration. The goal is to have the new codes in place by January 1, 2019 for easy tracking purposes. Staff training and industry briefings need to occur prior to the effective date.

Conclusion:

Adopting the 2018 codes in Pima County will return the region to current building safety and efficiency standards thereby creating greater uniformity with other nationally leading counties/municipalities, and will maintain lower property insurance rates which are based in part on the currency of locally adopted building codes.

Recommendation:

Staff recommends adoption of Ordinance No. 2018- provisions which would amend Title 15 of the Pima County adopting by reference the 2018 International Building Code and building related technical codes with local

2018-04-16
KOFB

amendments.

Fiscal Impact:

None.

Board of Supervisor District:

☐ 1

☐ 2

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☒ All

Department: Development Services

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Department Director Signature/Date:

Carla J. Blackwell 9/28/18

Deputy County Administrator Signature/Date:

[Signature] 10/2/18

County Administrator Signature/Date:

C. D. [Signature] 10/2/18



PIMA COUNTY
DEVELOPMENT SERVICES

TO: Honorable Board of Supervisors

FROM: Chris Poirier, Planning Official 
Public Works-Development Services Department-Planning Division

DATE: September 24, 2018

SUBJECT: P18TA00006 BUILDING AND CONSTRUCTION CODE UPDATES

The above referenced Code Text Amendment is scheduled for the Board of Supervisors' **TUESDAY, OCTOBER 16, 2018** hearing.

REQUEST: Proposal to amend by ordinance the Pima County Building and Construction Code.

OWNER: N/A

APPLICANT: Pima County Development Services Department

DISTRICTS: ALL

STAFF CONTACT: Dan Ice

PUBLIC COMMENT TO DATE: As of September 24, 2018, staff received no comments regarding the proposed code text amendment.

PLANNING AND ZONING COMMISSION RECOMMENDATION: **APPROVAL** (6-0; Commissioners Bain, Gungle, Hook and Matter were absent).

STAFF RECOMMENDATION: **APPROVAL.**

TD/DI/ar
Attachments



BOARD OF SUPERVISORS MEMORANDUM

Subject: P18TA00006

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FOR OCTOBER 16, 2018 MEETING OF THE BOARD OF SUPERVISORS

TO: HONORABLE BOARD OF SUPERVISORS

FROM: Chris Poirier, Planning Official
Public Works-Development Services Department-Planning Division

DATE: September 24, 2018

ADVERTISED ITEM FOR PUBLIC HEARING

CODE TEXT AMENDMENT

P18TA00006 BUILDING AND CONSTRUCTION CODE UPDATES

AN ORDINANCE OF PIMA COUNTY, ARIZONA; RELATING TO BUILDING AND CONSTRUCTION; ADOPTING BY REFERENCE THE 2018 INTERNATIONAL BUILDING CODE WITH LOCAL AMENDMENTS; ADOPTING BY REFERENCE THE 2018 INTERNATIONAL RESIDENTIAL CODE WITH LOCAL AMENDMENTS; ADOPTING BY REFERENCE THE 2017 NATIONAL ELECTRICAL CODE WITH LOCAL AMENDMENTS; ADOPTING BY REFERENCE THE 2018 INTERNATIONAL MECHANICAL CODE WITH LOCAL AMENDMENTS; ADOPTING BY REFERENCE THE 2018 INTERNATIONAL PLUMBING CODE WITH LOCAL AMENDMENTS; ADOPTING BY REFERENCE THE 2018 INTERNATIONAL FUEL GAS CODE WITH LOCAL AMENDMENTS; ADOPTING BY REFERENCE THE 2018 INTERNATIONAL ENERGY CONSERVATION CODE WITH LOCAL AMENDMENTS; ADOPTING BY REFERENCE THE 2018 INTERNATIONAL PROPERTY MAINTENANCE CODE WITH LOCAL AMENDMENTS; ADOPTING BY REFERENCE THE 2018 INTERNATIONAL WILDLAND-URBAN INTERFACE CODE WITH LOCAL AMENDMENTS (APPLICABLE ONLY TO AREAS DESIGNATED RURAL FOREST VILLAGE UNDER THE PIMA COUNTY COMPREHENSIVE PLAN AND AREAS ENCIRCLED THEREBY), ADOPTING BY REFERENCE THE 2018 INTERNATIONAL EXISTING BUILDING CODE WITH LOCAL AMENDMENTS, ADOPTING BY REFERENCE THE 2018 INTERNATIONAL SWIMMING POOL AND SPA CODE WITH LOCAL AMENDMENTS AMENDING CHAPTERS 15.04, 15.08, 15.12, 15.14, 15.16, 15.18 AND 15.20 OF THE PIMA COUNTY CODE TO REFLECT THE AMENDMENTS ADOPTED BY THIS ORDINANCE, AND TO UPDATE AN A.R.S. TITLE 11 CITATION IN 15.04.050 AND AMEND SECTION 15.04.080 TO REFLECT CHANGES TO CODE COMMITTEES MADE IN A PREVIOUSLY ADOPTED BOARD OF SUPERVISORS RESOLUTION. On motion, the Planning and Zoning Commission voted 6-0 to recommend **APPROVAL** (Commissioners Bain, Gungle, Hook and Matter were absent). Staff recommends **APPROVAL**.
(ALL DISTRICTS)

Planning and Zoning Commission Public Hearing Summary (September 26, 2018)

Staff presented the staff report to the commission.

A Commissioner observed Southwest Gas replacing their gas infrastructure in the area, and questioned whether staff had any understanding of what was going on. Staff responded that this is part of Southwest Gas's safety protocol. There are certain items that must be replaced after a certain period of time. This is partly their COYLE program which involves moving gas meters located in alleys up to the residence. The Commissioner wondered if this work had anything to do with EPA's methane rules regarding methane leakage and venting and questioned whether the code changes are designed to address methane leakage and venting issues. Staff responded that the new codes take into account latest practices that have been vetted through national organizations. Since 2012, study reviews for the 2018 codes were taking place. Staff responded that he is comfortable that methane leakage improvements have been included in the code.

A Commissioner discussed whether the clarifications included in the report will be included within the recommendation. Staff responded that this is correct.

A Commissioner asked for clarifications regarding the 2018 International Wildland-Urban Interface Code for areas designated rural forest village under the Pima County Comprehensive Plan and areas encircled thereby. Staff responded by explaining it is the Mount Lemmon area, which is designated rural forest village. A Commissioner questioned if this included the Rincon or San Rita Mountains. Staff responded that it did not.

There was no one from the audience to speak.

The public hearing was closed

Commissioner Becker made a motion to recommend **APPROVAL** of the text amendment subject to standard and special conditions.

Commissioner Maese gave second to the motion.

The commission voted to recommend **APPROVAL** of the text amendment as presented by staff. (6 – 0, Commissioners Bain, Gungle, Hook and Matter were absent).

TD/DI/ar
Attachments

cc: Tom Drzazgowski, Chief Zoning Inspector
P18TA00006 File

ORDINANCE NO. 2018-_____

AN ORDINANCE OF THE BOARD OF SUPERVISORS OF PIMA COUNTY, ARIZONA; RELATING TO BUILDING AND CONSTRUCTION; ADOPTING BY REFERENCE THE 2018 INTERNATIONAL BUILDING CODE WITH LOCAL AMENDMENTS; ADOPTING BY REFERENCE THE 2018 INTERNATIONAL RESIDENTIAL CODE WITH LOCAL AMENDMENTS; ADOPTING BY REFERENCE THE 2017 NATIONAL ELECTRICAL CODE WITH LOCAL AMENDMENTS; ADOPTING BY REFERENCE THE 2018 INTERNATIONAL MECHANICAL CODE WITH LOCAL AMENDMENTS; ADOPTING BY REFERENCE THE 2018 INTERNATIONAL PLUMBING CODE WITH LOCAL AMENDMENTS; ADOPTING BY REFERENCE THE 2018 INTERNATIONAL FUEL GAS CODE WITH LOCAL AMENDMENTS; ADOPTING BY REFERENCE THE 2018 INTERNATIONAL ENERGY CONSERVATION CODE WITH LOCAL AMENDMENTS; ADOPTING BY REFERENCE THE 2018 INTERNATIONAL PROPERTY MAINTENANCE CODE WITH LOCAL AMENDMENTS; ADOPTING BY REFERENCE THE 2018 INTERNATIONAL WILDLAND-URBAN INTERFACE CODE WITH LOCAL AMENDMENTS (APPLICABLE ONLY TO AREAS DESIGNATED RURAL FOREST VILLAGE UNDER THE PIMA COUNTY COMPREHENSIVE PLAN AND AREAS ENCIRCLED THEREBY); ADOPTING BY REFERENCE THE 2018 INTERNATIONAL EXISTING BUILDING CODE WITH LOCAL AMENDMENTS; ADOPTING BY REFERENCE THE 2018 INTERNATIONAL SWIMMING POOL AND SPA CODE WITH LOCAL AMENDMENTS; AND AMENDING CHAPTERS 15.04, 15.08, 15.14, 15.16, 15.18 AND 15.20 OF THE PIMA COUNTY BUILDING CODE TO REFLECT THE CODES ADOPTED BY REFERENCE BY THIS ORDINANCE.

THE BOARD OF SUPERVISORS OF PIMA COUNTY, ARIZONA FINDS THAT:

1. A.R.S. § 11-861 allows the adoption by reference of any building and other related codes that has been adopted by any national organization or association that is organized and conducted for the purpose of developing codes or that has been adopted by the largest city in the county.
2. The International Code Council, Inc. and the National Fire Prevention Association are national organizations or associations organized and conducted for the purpose of developing codes.
3. The Pima County Board of Supervisors has adopted ordinances adopting building and construction related codes pursuant to A.R.S. § 11-861 and A.R.S. § 11-251(35).
4. A.R.S. § 11-268 allows for the adoption and enforcement of standards pertaining to the removal of rubbish, trash, weeds, filth, debris and dilapidated buildings; violations; classification; removal by county; costs assessed; collection; and priority of lien.

IT IS ORDAINED BY THE BOARD OF SUPERVISORS OF PIMA COUNTY, ARIZONA, AS FOLLOWS:

**IT IS ORDAINED BY THE BOARD OF SUPERVISORS OF PIMA COUNTY,
ARIZONA, AS FOLLOWS:**

SECTION 1. Pima County adopts by reference the 2018 International Building Code, published by the International Code Council, Inc., Country Club Hills, IL, 2017, as amended by the local amendments, attached as Exhibit A and incorporated by this reference.

SECTION 2. Pima County adopts by reference the 2018 International Residential Code, published by the International Code Council, Inc., Country Club Hills, IL, 2017, as amended by the local amendments, attached as Exhibit B and incorporated by this reference.

SECTION 3. Pima County adopts by reference the 2017 National Electrical Code (NFPA 70), published by the National Fire Protection Association, Quincy, Ma., March 2016, as amended by the local amendments, attached as Exhibit C and incorporated by this reference.

SECTION 4. Pima County adopts by reference the 2018 International Mechanical Code, published by the International Code Council, Inc., Country Club Hills, IL, 2017, as amended by the local amendments, attached as Exhibit D and incorporated by this reference.

SECTION 5. Pima County adopts by reference the 2018 International Plumbing Code, published by the International Code Council, Inc., Country Club Hills, IL, 2017, as amended by the local amendments, attached as Exhibit E and incorporated by this reference.

SECTION 6. Pima County adopts by reference the 2018 International Fuel Gas Code, published by the International Code Council, Inc., Country Club Hills, IL, 2017, as amended by the local amendments, attached as Exhibit F and incorporated by this reference.

SECTION 7. Pima County adopts by reference the 2018 International Energy Conservation Code, published by the International Code Council, Inc., Country Club Hills, IL, 2017, as amended by the local amendments, attached as Exhibit G and incorporated by this reference.

SECTION 8. Pima County adopts by reference the 2018 International Property Maintenance Code, published by the International Code Council, Inc., Country Club Hills, IL, 2017, as amended by the local amendments, attached as Exhibit H and incorporated by this reference.

SECTION 9. Pima County adopts by reference the 2018 International Wildland-Urban Interface Code, published by the International Code Council, Inc., Country Club Hills, IL, 2017, as amended by the local amendments, attached as Exhibit I and incorporated by this reference.

SECTION 10. Pima County adopts by reference the 2018 International Existing Building Code, published by the International Code Council, Inc., Country Club Hills, IL, 2017, as amended by the local amendments, attached as Exhibit J and incorporated by this reference.

SECTION 11. Pima County adopts by reference the 2018 International Swimming Pool and Spa Code, published by the International Code Council, Inc., Country Club Hills, IL, 2017, as amended by the local amendments, attached as Exhibit K and incorporated by this reference.

SECTION 12. Pima County Code Chapter 15.04 is amended to read as follows:

Chapter - 15.04 Building Code

...

15.04.020 Codes Adopted.

A. The Pima County building code, codified in this chapter, adopts by reference the ~~2012~~ 2018 International Building Code, published by the International Code Council, Inc., Country Club Hills, IL, in ~~2011~~ 2017, as amended by the local amendments attached to and incorporated into Ordinance ~~2012-34~~ 2018- as Exhibit A together with the following national and international codes:

1. The ~~2012~~ 2018 International Property Maintenance Code, as amended by Exhibit H attached to ~~2012-34~~ 2018- ;
2. The ~~2012~~ 2018 International Fuel Gas Code as amended by Exhibit F attached to Ordinance ~~2012-34~~ 2018- (See Chapter 15.18);
3. The ~~2012~~ 2018 International Plumbing Code, as amended by Exhibit E attached to Ordinance ~~2012-34~~ 2018- (See Chapter 15.20);
4. The ~~2012~~ 2018- International Mechanical Code, as amended by Exhibit D attached to Ordinance ~~2012-34~~ 2018- (See Chapter 15.16);
5. The ~~2011~~ 2017 National Electrical Code (NFPA 70), as amended by Exhibit C to Ordinance ~~2012-34~~ 2018- (See Chapter 15.08);
6. The ~~2012~~ 2018 International Energy Conservation Code, as amended by Exhibit G attached to Ordinance ~~2012-34~~ 2018- (See Chapter 15.14);
7. The ~~2012~~ 2018 International Residential Code, as amended by Exhibit B attached to Ordinance ~~2012-34~~ 2018- ;
8. The following provisions of the 1998 American National Standard Accessible and Usable Buildings and Facilities Code, published by the International Code Council, February 1998, as amended by the local amendments attached to and incorporated into Ordinance 2002-2 as Exhibit A, as amended by Ordinances 2002-66 and 2002-72: Chapter 1; Chapter 2; Chapter 3, Sections 301.1, 303.1, 303.2, 303.3, 308.1, 308.2.1, 308.3.1 and 309.3 only; Chapter 4, Sections 401.1, 402.1, 402.2, 403.5, 404.1, 404.2.5, and 404.2.7 only; Chapter 6, Sections 604.5, 607.4, 609.4 and Section 610 only; Chapter 10, Sections 1001.01, 1003.1, 1003.2, 1003.3, 1003.4, 1003.5, 1003.9 and 1003.11.2 only. Unless otherwise specifically indicated in Exhibit A to Ordinance 2002-2 as amended by Ordinances 2002-66 and 2002-72, adoption of a particular section of the said Code shall include adoption of all subsections thereof;
9. The ~~2012~~ 2018 International Wildland-Urban Interface Code, as amended by Exhibit I attached to Ordinance ~~2012-34~~ 2018- . The ~~2012~~ 2018 International Wildland-Urban Interface Code applies only to areas designated Rural Forest Village under the Pima County Comprehensive Plan and areas encircled thereby;
10. The ~~2012~~ 2018 International Existing Building Code, as amended by Exhibit J attached to Ordinance ~~2012-34~~ 2018-;

11. The 2018 International Swimming Pool and Spa Code, as amended by Exhibit K attached to Ordinance 2018- ;

B. The Pima County building code incorporates the following local ordinances and codes into the building code by reference:

1. The International Building Code Appendix F: Noise level reduction design and construction standards, Attached as Exhibit A to Ordinance 2008-119.

2. The 2012 City of Tucson/Pima County Outdoor Lighting Code, attached as Exhibit A to Ordinance 2012-14 (See Chapter 15.12).

...

15.04.060 - Administrative appeal process.

Whenever a violation of a building code is determined, whether during construction or at the plan review stage, and the applicant wishes to appeal the decision of the staff, because of code interpretation, unreasonable hardship or other acceptable reasons, the applicant may appeal to the building official in accordance with the procedures listed in Exhibit A, section 104.10 of Ordinance ~~2012-34~~ 2018- .

If an appeal is denied by the building official, the applicant shall comply or appeal to the board of appeals of the county as in Section 15.04.070.

SECTION 13. Pima County Code Chapter 15.08 is amended to read as follows:

Chapter - 15.08 Electrical Code

15.08.010 Adopted.

The ~~2011~~ 2017 National Electrical Code (NFPA 70), published by the National Fire Protection Association, One Batterymarch Park, Quincy, MA, ~~2010~~ 2016 is adopted by reference as the electrical code of Pima County as amended by Exhibit C attached to Ordinance ~~2012-34~~ 2018- . The purpose of the code is the practical safeguarding of persons and property from the hazards arising from the use of electricity.

SECTION 14. Pima County Code Chapter 15.14 is amended to read as follows:

Chapter - 15.14 Energy Code

15.14.010 Adopted.

The ~~2012~~ 2018 International Energy Conservation Code, published by the International Code Council, Inc., Country Club Hills, IL, ~~2011~~ 2017 is adopted by reference as the energy code of Pima County as amended by Exhibit G attached to Ordinance ~~2012-34~~ 2018- . The purpose of the code is to regulate the design and construction of buildings and sites for the effective use of energy.

SECTION 15. Pima County Code Chapter 15.16 is amended to read as follows:

Chapter - 15.16 Mechanical Code

15.16.010 Adopted.

The ~~2012~~ 2018 International Mechanical Code, published by the International Code Council, Inc., Country Club Hills, IL, ~~2011~~ 2017 is adopted by reference as the mechanical code of Pima County as amended by Exhibit D attached to Ordinance ~~2012-34~~ 2018- .

SECTION 16. Pima County Code Chapter 15.18 is amended to read as follows:

Chapter - 15.18 Fuel Gas Code

15.18.010 Adopted.

The ~~2012~~ 2018 International Fuel Gas Code, published by the International Code Council, Inc., Country Club Hills, IL, ~~2011~~ 2017 is adopted by reference as the fuel gas code of Pima County as amended by Exhibit F attached to Ordinance ~~2012-34~~ 2018- . The purpose of the code is to provide... .

SECTION 17. Pima County Code Chapter 15.20 is amended to read as follows:

Chapter - 15.20 Plumbing Code.

15.20.010 Adopted.

The ~~2012~~ 2018 International Plumbing Code, published by the International Code Council, Inc., Country Club Hills, IL, ~~2011~~ 2017 is adopted by reference as the plumbing code of Pima County as amended by Exhibit E attached to Ordinance ~~2012-34~~ 2018- . The purpose of the code is to provide... .

SECTION 18. This ordinance is effective for permit applications initiated on or after January 1, 2019.

PASSED AND ADOPTED by the Board of Supervisors of Pima County, Arizona, this ____day of _____, 2018

PIMA COUNTY BOARD OF SUPERVISORS

Chairman, Pima County Board of Supervisors

ATTEST:

Clerk of the Board of Supervisors

REVIEWED BY:

Daniel E. Ju 9/28/18
Chief Building Official

APPROVED AS TO FORM:

Lesley M. Lukach 9/24/18
Deputy County Attorney
Lesley M. Lukach



Ordinance 2018-__ Exhibit A



Amendments to the:
2018 International Building Code

Section 101.1 Title. Insert:[name of jurisdiction] as “Pima County, AZ”.

Section 101.2 Scope. REVISE section by ADDING a second sentence to the exception as follows: “Home occupations conforming to Pima County Code Section 18.09.030(A) and classified as occupancy group B, F, M, S or U may comply with the *International Residential Code* without needing to meet additional requirements for live/work units.”

Section 101.4 Referenced codes. REVISE section by DELETING the paragraph and REPLACING it with the following:

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

Section 101.4.3 Plumbing. REVISE section by DELETING the last sentence.

Section 101.4.4 Property maintenance. REVISE section by DELETING all words following “...shall apply to existing structures and premises.”

Section 101.4.5 Fire prevention. REVISE section by DELETING the paragraph and REPLACING it with the following:

The provisions of the *International Fire Code* shall apply whenever referenced in this code or as deemed necessary by the Building Official. Enforcement of the Fire Code shall, however, be relegated to the fire jurisdiction having authority or to the designated responding fire department.

ADD new section 101.4.8 to read:

Section 101.4.8 Electrical. The provisions of the *National Electrical Code* shall apply to the installation of electrical systems, including alterations, repairs, replacement, equipment, appliances, fixtures, fittings and appurtenances thereto.

ADD new section 101.4.9 to read:

Section 101.4.9 Outdoor lighting. The provisions of the City of Tucson/Pima County Outdoor Lighting Code shall apply to all new construction, additions and alterations to land uses, developments, buildings, structures and light fixtures.

ADD new section 101.4.10 to read:

Section 101.4.10 Pool and Spa. The provisions of the *International Swimming Pool and Spa Code* shall apply to all private swimming pools.

ADD new section 101.4.11 to read:

Section 101.4.11 Wildland-urban interface. The provisions of the *International Wildland-Urban Interface Code* shall apply to areas designated Rural Forest Village under the Pima County Comprehensive Plan and areas encircled thereby.

Section 104.10 Modifications. REVISE section by ADDING the following to the end of the paragraph:
Requests for modification shall be appealed to the Building Official as follows:

1. The applicant shall file a written appeal on the form provided by the Building Official and accompanied by a non-refundable fee (refer to the fee schedules adopted by the jurisdiction by separate ordinance).

2. Adequate information shall be provided by the applicant to fully describe the conditions in question.
3. The appeal will be considered by the Building Official within five (5) business days of receipt.
4. If an appeal is denied by the Building Official, the appellant must comply with the decision or may appeal to the Board of Appeals pursuant to Section 113 of this Code and Section 15.04.070 of the Pima County Code.

Section 105.1 Required. REVISE section by ADDING the following to the end of the paragraph:
The provisions of this Code apply to regulated equipment and structures or improvements thereto in the unincorporated area of Pima County, east of the easterly boundary of the principal Tohono O'odham Reservation (not the San Xavier District). Buildings intended for assembly, commercial or industrial purposes shall comply with this Code, regardless of location unless exempted by State law.

Owners, builders, or authorized agents of buildings in otherwise exempted areas may, of their own volition, place themselves under the jurisdiction of this code by making application for and obtaining permits prior to construction.

Section 105.1.1 Annual permit. REVISE section by ADDING the following to the end of the paragraph:
The applicant for the registered plant annual permit shall be an architect registered in the State of Arizona and who shall be directly responsible for compliance with this code with respect to all work, which would otherwise require a permit. This person will need to be approved by the Building Official. All new applications need to be accompanied by a complete set of plans of affected buildings with a scope of work and operations section clearly outlined. Annual registered plant permits shall not be granted for buildings or facilities not currently operating under a valid certificate of occupancy.

Fees for annual permits shall expire on December 31st of each year and will need to be renewed and approved for registered plant status to be maintained. The permit will be suspended if the registered and approved applicant becomes no longer employed by the registered plant. If this occurs, the plant will need to notify the Building Official and call for immediate inspection on any ongoing work until such time that a replacement registrant is approved by the Building Official. Annual permits may be revoked at any time by the Building Official when failing to comply with requirements.

A summary report of all work done under the registered plant registration shall be prepared by the registered architect and submitted annually to the Building Official. Work conducted under the registered plant annual permit may be reviewed and inspected by the Building Official while the work is in progress or on an annual basis.

The following work is not to be covered within the scope of the annual permit and shall require separate permitting:

1. Any work creating a different occupancy group for all or any portion of a building.
2. Any work creating a different building type for all or any portion of a building.
3. Any work, which adds, alters, removes or penetrates required firewalls or barriers, exit courts, exit passageways or horizontal exits.
4. Any work which modifies load-bearing structures.

Section 105.2 Work exempt from permit (Building). REVISE item number 1 by DELETING "120 square feet (11m²)" and REPLACING it with "200 square feet (18.58m²)."

REVISE item number 5 by ADDING a second sentence to read: "Water tanks no greater than 1000 gallons, directly supported on grade, regardless of aspect ratio."

REVISE item number 6 by DELETING the fragment "Sidewalks and driveways..." and REPLACING it with "Decks and non-structural flatwork..."

REVISE item number 9 by DELETING the phrase fragment "24 inches (610 mm)" and REPLACING it with "18 inches".

REVISE the Building section by ADDING new items number 14 to 19 as follows:

14. Any work accomplished under the auspices of and owned and controlled by the United States of America or the State of Arizona.
15. Amusement devices or structures located on a site for no more than 30 calendar days.
16. Devices used in manufacturing, processing, or fabricating normally considered as involved in industrial plants.
17. Tents or membrane structures provided the area does not exceed 400 square feet or 700 square feet if a minimum of two sides are open.
18. Re-roofing of existing buildings with similar materials regardless of value.
19. Detached ramadas/gazebos not greater than 200 square feet and not containing any electrical, mechanical, plumbing or stairs.

Section 105.2 Work exempt from permit (Electrical). REVISE the Electrical section by ADDING a new fourth paragraph section to read:

Other items:

1. Power for amusement devices and carnival rides in place on a site for less than 30 calendar days and not connected to a utility company's facilities.
2. Repair or replacement of fixed motors and transformers of the same type and rating in the same location.
3. Repair or replacement of current-carrying parts of any switch, contactor, control device, or overcurrent device of the required capacity in the same location.
4. Electrical wiring, devices, appliances, apparatus or equipment operating at less than 25 volts and not capable of supplying more than 50 volt-amperes of energy.
5. Devices used in manufacturing, processing or fabricating.

Section 105.2 Work exempt from permit (Mechanical). REVISE the Mechanical section by ADDING new item number 8 as follows:

8. Replacement of evaporative coolers with like coolers.

Section 105.2 Work exempt from permit (Agricultural). REVISE section by ADDING new paragraphs following the Plumbing section as follows:

Agricultural Buildings:

Agricultural buildings are exempt from Building Codes permitting requirements per A.R.S. § 11-865(A)(1). This section does not, however, exempt Agricultural buildings from permitting requirements for site outdoor lighting per ARS § 11-251(35).

Agricultural buildings containing separated uses, as defined by the Building Code, where the construction incidental to agriculture only occupies a portion of a mixed-use building, shall be provided with an exemption only for those construction portions incidental to agriculture. Those construction portions not incidental to agriculture shall not only require Building Codes permitting, but may require a rated occupancy separation from the exempt portion per the Building Code as follows:

Agricultural buildings are structures incidental to "Farming, dairy, agriculture, viticulture, horticulture, stock or poultry raising" [A.R.S. § 11-865(A)(1)]. This includes structures for the storage of equipment and materials incidental to the operation of agriculture such as tractors, combine harvesters and feed for the exclusive use of dairy or production animals. The definition, however, does not include any exemption for general animal care and housing facilities such as kennels, aviaries and riding stables. This means that buildings of an agricultural character (i.e.: pole barns or silos), are not eligible for agricultural buildings status if their use does not qualify for the exemption. The test for whether a building is an agricultural building depends on the use to which the building is put. The question is not determined by the physical similarity of the use of the building to uses done by farmers in other situations. The test is whether the particular building, or portion of a building, is used as part of, or incidental to, an agricultural function or whether it is used as part of an independent activity. Furthermore, to qualify for

exempt status, agricultural buildings need to be located on agricultural real property as defined by A.R.S. §42-12151. In addition, agricultural real property classification will require that “the primary use of the property is as agricultural land...” along with the other caveats listed in A.R.S. §42-12152.

Section 105.3 Application for Permit. REVISE section by DELETING items 5 and 6.

Section 105.3.2 Time limitation of application. REVISE section by DELETING the phrase fragments “180 days” and “90 days” and respectively REPLACING these with “365 days” and “180 days”.

Section 105.5 Expiration. REVISE section by DELETING all occurrences of the phrase fragment “180 days” and REPLACING them with “365 days”; ADDING a sentence after the first sentence to read: “Such time periods shall be evidenced by a recorded inspection approval demonstrating progress”; DELETING the last sentence and REPLACING with the following: The extension shall be requested in writing, prior to permit expiration and with justifiable cause demonstrated. Permit reinstatements and associated fees shall conform to the procedure on file with the Building Official.

Section 107.3.2 Previous approvals. REVISE section by DELETING the phrase fragment “180 days” and REPLACING it with “365 days” and ADDING new text at the end of the last sentence to read: “...as evidenced by a recorded inspection demonstrating progress.”

Section 109.3 Building permit valuations. DELETE this section in its entirety.

ADD new section 109.3 to read:

Section 109.3 Model plans. When two or more buildings, structures, or systems of regulated equipment are built without substantial modifications, as defined by the Building Official, an applicant may apply for a model plan permit. This permit shall be charged plan review fees with additional fees for each exterior design elevation. The number and type of accepted revisions/options per model plan shall be as determined by the Building Official.

A model plan approved by a jurisdiction having an Intergovernmental Agreement with Pima County may be accepted for approval by the Building Official and assessed an administrative fee of twenty-five percent (25%) of the building plan review fee.

Section 109.4 Work commencing before permit issuance. REVISE section by ADDING a new sentence at the end of the paragraph to read:

The additional fee shall be at least equal to the required building permit fee.

111.2 Certificate issued. REVISE section by ADDING a new sentence at the end of the section to read:

Exception: Approved final inspections for group “U” occupancy structures shall constitute the certificate of occupancy.

ADD new section 111.3.1 to read:

111.3.1 Occupancy bonds required. Written assurance of compliance with this code, with the condition of temporary occupancy granted by the Building Official, and with the temporary occupancy time limit shall consist of a cash deposit or a performance bond in the penal sum of one thousand dollars (\$1,000.00) or the amount equal to one percent (1%) of the value, whichever is greater but not to exceed ten thousand dollars (\$10,000.00), payable to the jurisdiction and executed by a surety company qualified to execute surety bonds in the State. Each bond shall be joint and several and conditioned that the principal in the bond will faithfully conform to this code for which the temporary occupancy authorization is to be issued. The principal and surety named in such bond shall be jointly and severally bound unto the jurisdiction, and to any and every other person aggrieved or damaged by any breach of the condition of the bond. The bond shall not be void upon any recovery or recoveries totaling less than the whole penalty but may be used and recovered upon from time to time until the whole penalty is exhausted. The term of the obligation of such bond shall be for a period that the authorization is outstanding and may be held for

thirty days thereafter when required by the Building Official, except that if at the expiration of said thirty days, the jurisdiction has reason to believe that there is an action or claim impending or that there is a legal action pending which relates to the bond, the jurisdiction shall retain the bond until final disposition of such matter or matters.

Exception: Owner built/owner occupied single family dwellings.

ADD new section 112.1.1 to read:

112.1.1 Service conductors. All service conductors, power and communication, shall be installed underground for all new construction. The requirement for underground conductors may be waived by the Building Official where:

1. Existing buildings on the block are served with overhead conductors or where a lot to be constructed upon is one of three or fewer abutting vacant lots making up less than 40 percent of the total acreage of the block (not including street or right-of-way) or where a vacant area is less than 60,000 square feet.
2. The installation, when compared to the use of overhead conductors, would create a hazard or not be feasible. A feasibility study will be required at the time the request for waiver is made.

ADD new section 112.2.1 to read:

112.2.1 Temporary service bonds required. Written assurance of compliance with this code and temporary connection time limit shall consist of a cash deposit or a performance bond in the penal sum of one thousand dollars (\$1,000.00) or the amount equal to one percent (1%) of the value, whichever is greater but not to exceed ten thousand dollars (\$10,000.00), payable to the jurisdiction and executed by a surety company qualified to execute surety bonds in the State. Each bond shall be joint and several and conditioned that the principal in the bond will faithfully conform to this code for which the temporary connection authorization is to be issued. The principal and surety named in such bond shall be jointly and severally bound unto the jurisdiction, and to any and every other person aggrieved or damaged by any breach of the condition of the bond. The bond shall not be void upon any recovery or recoveries totaling less than the whole penalty but may be used and recovered upon from time to time until the whole penalty is exhausted. The term of the obligation of such bond shall be for a period that the authorization is outstanding and may be held for thirty days thereafter when required by the Building Official, except that if at the expiration of said thirty days, the jurisdiction has reason to believe that there is an action or claim impending or that there is a legal action pending which relates to the bond, the jurisdiction shall retain the bond until final disposition of such matter or matters.

Exception: Owner built/owner occupied single family dwellings.

ADD new section 112.2.2 to read:

112.2.2 Construction power. Construction power is a privilege granted under the jurisdiction for convenience during construction. Construction power may be from either temporary power poles or through the permanent power panel. Each 120 Volt circuit used for construction power shall be GFCI protected. Construction power may be revoked at anytime upon cause by the Building Official.

Section 202 Definitions: Swimming Pool. REVISE section by DELETING the fragment “24 inches (610 mm)” and REPLACING it with “18 inches”.

Section 1609.1.1 Determination of wind loads. REVISE section by ADDING the following after the last paragraph:

Per the Basic Wind Speed Figures, use the following:

- Risk Category I – 100 mph.
- Risk Category II – 105 mph.
- Risk Category III – 110 mph.
- Risk Category IV – 115 mph.

ADD new section 1609.5.1.1 to read:

Section 1609.5.1.1 Uplift resistance to minimize microburst effects. In addition to requirements in ASCE 7, minimum uplift resistance shall be determined by either method 1 or 2 below:

1. Design-based wind uplift criteria

Wind uplift requirements shall be determined by using the design wind value of 110 mph within Table 2308.7.5 for the continuous load path transmitting the uplift forces from the rafter or truss ties to the foundation.

2. Prescriptive-based wind uplift criteria

(Please note that the requirements of this section are in addition to those required for the structural connection of wood members).

2.1. Conventionally-framed wood or cold-formed steel structures

All bearing wall vertical connections shall be clipped with either approved structural sheathing or approved clips to provide a continuous load path from the joist or truss through the ledger or top plate to the bottom wall plate. Where clips are used, they shall be minimum Simpson H2.5 (A34 at ledger), or equivalent load capacity, of configuration to match connection and spaced at intervals not to exceed 24". At openings, lower cripple studs do not require clipping but king/trimmer studs require double clips at bottom and upper cripples require both full clipping to header as well as header to king stud. All platform framing requires either strapping listed for the purpose or continuous sheathing over rim joist from stud to stud vertically at each floor level. All non-bearing exterior walls shall be clipped as above except that the spacing may be extended not to exceed every other stud.

2.2. Masonry or concrete structures

If lateral design requires larger anchors or more conservative spacing, these may be used in lieu of those called out in this section.

2.2.1. Roof bearing on wall top plate

Top plates shall be secured to masonry or concrete walls with minimum 0.5" anchor bolts embedded minimum 7" and spaced at intervals not to exceed 48". Each joist or truss shall be clipped to plate at bearing with minimum Simpson H2.5 or equivalent load capacity and of configuration to match connection. Gable end joists or trusses shall also be clipped at intervals not to exceed 48".

2.2.2. Roof bearing on wall ledger

Joists or trusses bearing on a wall ledger shall be secured to masonry or concrete walls with minimum Simpson PA123 purlin anchors or equal with equivalent load capacity listed for the application and embedded into wall per listing at intervals not to exceed 48". Nonbearing roof diaphragm edges shall have the outermost joist or truss likewise anchored to the wall through blocking.

2.3. Structural steel structures

Structural steel buildings shall have roof members attached by either welds, bolts, screws or other similarly approved connections at intervals not to exceed 48". Ledger designs shall connect to roof trusses with strapping listed for the purpose at intervals not to exceed 48" on all diaphragm sides. If lateral design requires larger anchors or more conservative spacing, these may be used in lieu of those called out in this section.

ADD new Section 1610.1.1 to read:

Section 1610.1.1 Presumptive active pressure: For typical unsaturated soils in Pima County, a presumptive active lateral pressure of 35 psf per foot of depth may be used without a geotechnical report for walls not exceeding 7 feet in height. Level backfill is assumed with this active pressure. Surcharges shall be applied as necessary.

Section 1612.3 Establishment of flood hazard areas. Insert:[name of jurisdiction] as "The Flood Insurance Study for the Unincorporated Areas of Pima County, Arizona"; and insert:[date of issuance] as "February 15, 1983."

Section 1705.4 Masonry construction. REVISE section by ADDING a new exception 4 as follows:

Exception 4: Nonessential facilities designed in accordance with Section 2107 with allowable masonry stresses reduced by one-half and the maximum value of f_m limited to 1500 psi for concrete or clay masonry. The following limitations shall apply to this exception:

1. The unsupported height (or length)-to-thickness ratio of a building wall shall not exceed 20.
2. The soil retaining height for a retaining wall shall not exceed 4'-0" measured from the top of footing for an 8-inch-thick wall or 6'-0" for a 12-inch-thick wall.
3. The height-to-thickness ratio shall not exceed 10 for a cantilevered masonry fence or combination masonry fence and retaining wall as measured from the top of footing to the top of wall. If a combination retaining/fence wall consists of more than one wall thickness, the smallest thickness shall be used in determining the height-to-thickness ratio.

Any portion or portions of a structure in which the design masonry stresses exceed one-half the allowable masonry stresses, shall require Special Inspection for that portion or portions of the structure.

ADD NEW section 1806.2.1 to read:

Section 1806.2.1 Presumptive coefficient of friction:

For typical unsaturated soils in Pima County, a presumptive coefficient of friction of 0.30 for lateral sliding resistance may be used without a geotechnical report. Friction resistance may be used in conjunction with passive pressure to resist sliding forces.

Section 2308.7.5 Wind uplift. REVISE section by DELETING first sentence and REPLACING with the following:

Uplift resistance shall comply with section 1609.5.1.1.

Section 3109 Swimming pools, spas, and hot tubs. DELETE section and subsections and REPLACE with: The design and construction of Public and Semipublic pools, spas, and hot tubs shall comply with Arizona Administrative Code, Title 18, Chapter 5, Article 2. Public and Semipublic Swimming Pools and Spas as well as A.R.S. §36-1681 is hereby adopted by reference and subject to the requirements of this code.

Adopt Appendix A: Employee qualifications and Appendix I: Patio covers.



Ordinance 2018-__ Exhibit B



Amendments to the:
2018 International Residential Code

Chapter 1 Scope and Administration. REVISE chapter by DELETING Section R102 Applicability and Part 2-Administration and Enforcement. (Deleted sections are administered by 2018 IBC, Chapter 1).

Section R101.1 Title. Enter [Name of Jurisdiction] as "Pima County, AZ".

Table R301.2(1) Climatic and geographic design criteria. INSERT as follows:

Ground Snow Load	Less 4000 ft 0 psf 4 to 5000 ft 20 psf 5 to 7000 ft 40 psf 7 to 8000 ft 60 psf Over 8000 ft 80 psf
Topographic Effects	As Required
Wind Speed	115 mph 3 second gust
Seismic Design	Category B (areas west of the Tohono O'odham Reservation shall Use Category C)
Weathering	Up to 4000 ft-Negligible Above 4000 ft-Moderate
Frost Line Depth	Up to 4000 ft-0 in Above 4000 ft-24 in
Termite	Moderate to Heavy
Winter Design Temperature	Refer to N1101.09.1
Flood Hazards	NFIP: February 15, 1983 FIRM: June 16, 2011 for all areas except for an area around Agua Caliente Wash September 28, 2012 for an area around Agua Caliente wash

Section R302.1 Exterior Walls. REVISE section by DELETING text and tables and REPLACING with the following:

Exterior walls with a fire separation distance less than 3 feet (914mm) shall have not less than a one-hour fire-resistive rating with exposure from both sides. Projections shall not extend to a point closer than 2 feet (610 mm) from the line used to determine the fire separation distance. Projections extending into the fire separation distance shall have not less than one-hour fire-resistive construction on the underside. The above provisions shall not apply to walls which are perpendicular to the line used to determine the fire separation distance.

Exceptions:

1. Detached garages accessory to a dwelling located within 2 feet of a lot line may have roof eave projections not exceeding 4 inches.
2. Tool and storage sheds, playhouses, ramadas and similar structures exempted from permits are not required to provide wall protection based on location on the lot. Projections beyond the exterior wall shall not extend over the lot line.

ADD new section R302.1.1 to read:

Section R302.1.1 Openings. Openings shall not be permitted in the exterior wall of a dwelling with a fire separation distance less than 3 feet. This distance shall be measured perpendicular to the line used to determine the fire separation distance.

Exception:

1. Penetrations shall be permitted in walls that are perpendicular to the line used to determine the fire separation distance.
2. Foundation vents installed in compliance with this code are permitted.

Section R303.5.1 Intake openings. REVISE section by ADDING an exception to read:

Exception: Replacement of existing evaporative coolers where the building official determines that the replacement does not constitute a high degree of hazard.

Section R303.10 Required heating. REVISE section by ADDING exception #4 to read:

Exception: Spaces able to maintain 60°F at a point 3 feet above the floor and 2 feet from exterior walls in all habitable rooms over a 48-hour period as demonstrated by section **N1105 Simulated Performance Alternative**.

Section R309.5 Fire sprinklers. DELETE section in its entirety.

Section R313 Automatic Fire Sprinkler Systems. DELETE section in its entirety.

Section R802.11.1 Uplift resistance. REVISE section by DELETING section in its entirety and ADDING the following:

Uplift resistance to minimize microburst effects shall be determined by either method 1 or 2 below:

1. Design-based wind uplift criteria

Wind uplift requirements shall be determined by using the design wind value of 115 mph within Table R802.11 for the continuous load path transmitting the uplift forces from the rafter or truss ties to the foundation.

2. Prescriptive-based wind uplift criteria

(Please note that the requirements of this section are in addition to those required for the structural connection of wood members).

2.1. Conventionally-framed wood or cold-formed steel structures

All bearing wall vertical connections shall be clipped with either approved structural sheathing or approved clips to provide a continuous load path from the joist or truss through the ledger or top plate to the bottom wall plate. Where clips are used, they shall be minimum Simpson H2.5 (A34 at ledger), or equivalent load capacity, of configuration to match connection and spaced at intervals not to exceed 24". At openings, lower cripple studs do not require clipping but king/trimmer studs require double clips at bottom and upper cripples, require both full clipping to header as well as header to king stud. All platform framing requires either strapping listed for the purpose or continuous sheathing over rim joist from stud to stud vertically at each floor level.

All non-bearing exterior walls shall be clipped as above except that the spacing may be extended not to exceed every other stud.

2.2. Masonry or concrete structures

If lateral design requires larger anchors or more conservative spacing, these may be used in lieu of those called out in this section.

2.2.1. Roof bearing on wall top plate

Top plates shall be secured to masonry or concrete walls with minimum 0.5" embedded anchor bolts spaced at intervals not to exceed 48". Each joist or truss shall be clipped to plate at bearing with minimum Simpson H2.5 or equivalent load capacity and of configuration to match connection. Gable end joists or trusses shall also be clipped at intervals not to exceed 48".

2.2.2. Roof bearing on wall ledger

Joists or trusses bearing on a wall ledger shall be secured to masonry or concrete walls with minimum Simpson PAI23 purlin anchors or equal with equivalent load capacity listed for the application and embedded into wall per listing at intervals not to exceed 48". Nonbearing roof diaphragm edges shall have the outermost joist or truss likewise anchored to the wall through blocking.

2.3. Structural steel structures

Structural steel buildings shall have roof members attached by either welds, bolts, screws or other similarly approved connections at intervals not to exceed 48". Ledger designs shall connect to roof trusses with strapping listed for the purpose at intervals not to exceed 48" on all diaphragm sides. If lateral design requires larger anchors or more conservative spacing, these may be used in lieu of those called out in this section.

Section N1101.4 (R102.1.1) Above code programs. REVISE section by ADDING the following at the end of the paragraph:

Compliance with the Net-Zero Energy Standard shall be deemed to comply with this code.

ADD new section N1101.09.1 (R302.2) to read:

Section N1101.09.1 (R302.2) Exterior design conditions.

Table N1101.09.1
Exterior Design Conditions
Pima County Arizona

		West of the easterly boundary of the principal Tohono O'odham Reservation	Under 4,000 feet elevation	4,000 feet elevation & above
CONDITION				
Winter	Design Dry Bulb Temp	36°F	35°F	4°F
Summer	Design Dry Bulb Temp	107°F	105°F	90°F
	Design Wet Bulb Temp	69°F	66°F	61°F
Climate zone		2B	2B	5B

Table N1102.14 (R402.1.4) U-Factor alternative. REVISE the section by ADDING the following to the end of footnote b:

In climate zone 2, an un-insulated earth mass wall with a maximum U-factor of 0.14 shall be deemed in compliance (for computing the U-factor, an R value of 0.3 per inch shall be used for adobe and rammed earth).

Section N1102.4.1.2 (R402.4.1.2) Testing. REVISE section by DELETING the third sentence and REPLACING with the following:

Testing shall be conducted by individuals holding current certification for such testing from Residential Energy Services Network (RESNET), Building Performance Institute (BPI) or other *approved* agencies.

Section M1411.3 Condensate disposal. REVISE section by ADDING the following at the end of the paragraph: Condensate disposal shall be allowed to terminate as follows:

1. Into an approved fixture tailpiece, funnel drain, waste air gap fitting, floor sink, slop sink and laundry tray.
2. At or below grade outside the building in an area capable of absorbing the condensate flow without surface drainage.
3. Over roof drains or gutters or downspouts that connect to drainage pipes, provided they terminate at or above grade in an area capable of absorbing the condensate flow without surface drainage.

ADD new Section M1413.2

Section M1413.2 Water conservation. Evaporative cooling systems shall be provided with a recirculating water system. Any bleed off rate used by the system shall be limited to that recommended by the manufacturer. Once-through evaporative cooling systems using potable water shall not be permitted.

Section P2602.1 General. REVISE section by DELETING last sentence of paragraph 2.

ADD new section P2602.1.1 to read:

Section P2602.1.1 Individual metering in new dwelling units. The water supply to all dwelling units shall be individually metered. The metering may be private or utility installed.

Section P2603.5.1 Sewer depth. INSERT [number] as “12” in both locations.

Section P2801.6.1 Pan size and drain. REVISE section by ADDING the following at the end of the second sentence: “A drain shall not be required for replacement water heaters in locations where no previously installed drain is available or when water heater is installed in a garage.”

Section P2804.6.1 Requirements for discharge pipe. REVISE section by DELETING item number 2 for areas at or less than 4000 feet elevation.

Section P2902.5.4 Connection to automatic fire sprinkler systems. REVISE section by DELETING all text therein and REPLACING it with the following:

The potable water supply to automatic fire sprinkler and standpipe systems shall be protected against backflow in accordance with ARS § 41-2168.

Table P2903.1 Required capacities at point of outlet discharge. REVISE table by DELETING the column titled “FLOW PRESSURE (psi)” in its entirety.

Section P2904.1.1 Required sprinkler locations. REVISE section by DELETING the first sentence and REPLACING with the following: “Sprinklers are not required within dwelling units. This section serves as a guide for voluntary installation or to allow for a fire separation reduction within sections R302.2 and R302.3.”

Section P3008.1 Where Required. REVISE section by DELETING paragraph and ADDING new text to read: Where the finish floor elevation is less than 12 inches above the elevation of the next upstream manhole cover in the sewer, a backwater valve shall be installed in the building drain or branch of the building drain serving that floor. Floors discharging from above that reference point shall not discharge through the same backwater valve.

Section P3008.2 Allowable installations. DELETE section in its entirety.

Section P3009 Subsurface landscape Irrigation Systems. Delete section in its entirety. Shall comply with Arizona Administrative Code Title 18, Chapter 9.

ADD new section E3703.8 to read:

Section E3703.8 Dishwasher and Garbage Disposer Branch Circuits – Dwelling Units. In residential occupancies, dishwasher and garbage disposer may be on the same 20-ampere branch circuit.

ADD new section E3802.9 to read:

Section E3802.9 Earthen material wiring method. Type UF Cable shall be permitted to be used in mortar joints of adobe construction in occupancies where the use of Nonmetallic Sheathed Cable is permitted by this code.

Adopt **Appendix H: Patio Covers.**

Adopt **Appendix Q: Tiny Houses.**

Section AQ103.1 Minimum ceiling heights. REVISE section by ADDING the following after the first sentence: "For rooms with sloped ceilings, at least 50 percent of the floor area of the room must have a ceiling height of at least 6 feet 8 inches (2032 mm) and no portion of the floor area of the room may have a ceiling height of less than 5 feet (1524)."

Adopt **Appendix R Light Straw-Clay Construction.**

Adopt **Appendix S: Strawbale Construction.**



Amendments to the:
2017 National Electrical Code



Section 210.5 Identification for branch circuits. REVISE section by DELETING section (C)(1) and REPLACING it with the following:

(C)(1) Ungrounded conductors. Branch circuits shall conform to the following color code.

<u>Volts</u>	<u>Phase</u>	<u>System</u>	<u>Phase A</u>	<u>Phase B</u>	<u>Phase C</u>	<u>Grounded Conductor</u>
120/208	3	WYE	Black	Red	Blue	White
277/480	3	WYE	Brown	Orange	Yellow	Grey
120/240	3	DELTA	Black	Orange	Red	white

Exception No. 1: The above color-coding is not required in residential occupancies.

Exception No. 2: Industrial occupancies holding a Registered Plant Permit may use their own coding system.

Exception No. 3: Additions to an existing electrical system, where an acceptable color-coding system exists, the existing color coding system shall be continued.

Section 210.11(C) Dwelling units. REVISE section by ADDING Item (5) to read:

(5) Dishwasher and garbage disposer branch circuits-dwelling units. In residential occupancies, dishwasher and garbage disposer may be on the same 20-ampere branch circuit.

Section 225.32 Location. REVISE section by ADDING the following:

Exception No. 5: For freestanding canopies, carports, towers, and similar structures, an individual or multi-wire branch circuit disconnecting means shall be permitted to be located elsewhere on the premises. A bonding conductor sized per Section 250.122 shall be run with the circuit conductors. The disconnecting means shall be located within sight of the structure or shall be capable of being locked in the open position.

Section 230.70(B) Marking. REVISE this section by ADDING the following to the end of the sentence: The markings shall be of sufficient durability to withstand the environment involved. Identifying labels required for disconnecting means shall have engraved or raised letters and be secured by screws or rivets (plastic tape shall not be considered durable material).

Section 340.10 Uses permitted. REVISE section by ADDING new item (8) to read:

(8) Type UF Cable shall be permitted to be used in mortar joints of adobe construction in occupancies where the use of Nonmetallic Sheathed Cable is permitted by this code.



Ordinance 2018-__ Exhibit D

Amendments to the:
2018 International Mechanical Code



Chapter 1 Administration. DELETE chapter 1 with the exception of section 107. (Deleted sections are administered by 2018 IBC, Chapter 1).

Section 307.2.1 Condensate disposal. REVISE section by ADDING the following at the end of the paragraph: Condensate disposal shall be allowed to terminate as follows:

1. Into an approved fixture tailpiece, funnel drain, waste air gap fitting, floor sink, slop sink and laundry tray.
2. At or below grade outside the building in an area capable of absorbing the condensate flow without surface drainage.
3. Over roof drains or gutters or downspouts that connect to drainage pipes, provided they terminate at or above grade in an area capable of absorbing the condensate flow without surface drainage.

Section 401.4 Intake opening location. REVISE section by ADDING an exception to read:

Exception: Replacement of existing evaporative coolers where the building official determines that the replacement does not constitute a high degree of hazard.

Section 403.3.1.5 Balancing. REVISE section by DELETING the second sentence and REPLACING it with the following:

Ventilation systems shall be balanced by individuals holding current certification from the Associated Air Balance Council (AABC), the National Environmental Balancing Bureau (NEBB) or other *approved* agencies. A final report shall be provided to the engineer of record and code official. The Air Balance report shall be reviewed by the Building Official Prior to the issuance of a Certificate of Occupancy.

Section 606.2.1 Return air systems. REVISE section by DELETING sentence and REPLACING it with the following:

Duct smoke detectors shall be installed in the return duct of air distribution systems moving more than 2000 cfm. Duct smoke detectors shall be located upstream of air filters or outside air inlets.

ADD new section 928.2 to read:

Section 928.2 Water conservation. Evaporative cooling systems shall be provided with a recirculating water system. Any bleed off rate used by the system shall be limited to that recommended by the manufacturer. Once-through evaporative cooling systems using potable water shall not be permitted.

ADD new section 930 to read:

Section 930 Water cooled refrigeration/heat removal systems—water conservation. A water-cooled refrigeration system or heat removal system, (defined as refrigeration or heat removal system using water, all, or in part, for condensing a refrigerant), shall not discharge more than three gallons of water per nominal ton per hour into an approved sanitary disposal system. Condenser wastewater discharge shall be accomplished by the use of an air gap, as described in the *International Plumbing Code*. Each water-cooled system shall be provided with one or more of the following water-saving devices: (a) a cooling tower; or (b) an evaporative condenser; or (c) an *approved* water circulating device.

Section 1001.1 Scope. REVISE section by DELETING the text of exception 7 and REPLACING it with the following:

Any boiler or lined water heater in excess of 200,000 BTU shall be subject to inspection by Federal or State inspections. See Arizona Boiler Rules for regulations, Title 20, Chapter 5.

Section 1004.1 Standards. REVISE section by DELETING all text after the second sentence and ADDING the following:

Boilers shall be designed and constructed in accordance with the ASME *Boiler and Pressure Vessel Code*, and Arizona Boiler Rules, Title 20 Chapter 5.



Amendments to the:
2018 International Plumbing Code

Chapter 1 Administration. DELETE chapter 1 with the exception of section 107. (Deleted sections are administered by 2018 IBC, Chapter 1).

ADD new section 301.4.1 to read:

301.4.1 Individual metering in new multi-family residential units. The water supply to all new multi-family residential buildings shall be individually metered for each dwelling unit. The metering may be private or utility installed.

Section 305.4.1 Sewer depth. INSERT [number] as “12” in both locations.

Section 312.1 Required tests. REVISE section by DELETING the last two sentences of the first paragraph.

Section 314.2.1 Condensate disposal: REVISE section by ADDING the following at the end of the paragraph: Condensate disposal shall be allowed to terminate as follows:

1. Into an approved fixture tailpiece, funnel drain, waste air gap fitting, floor sink, slop sink, and laundry tray.
2. At or below grade outside the building in an area capable of absorbing the condensate flow without surface drainage.
3. Over roof drains, gutters, or downspouts that connect to drainage pipes, provided they terminate at or above grade in an area capable of absorbing the condensate flow without surface drainage.

410.4 Substitution. REVISE section by ADDING a second sentence to read: When a single drinking fountain is required, it may be substituted with a point of use water cooler or dispenser.

ADD new section 412.11 to read:

412.11 Automatic faucets. New or replacement faucets serving lavatories in all buildings other than R3 occupancies or International Residential Code structures shall be provided with automatic faucets in accordance with section 419.6.

ADD new section 419.6 to read:

419.6 Automatic faucets. Lavatories installed in all buildings other than R3 occupancies or International Residential Code structures shall be provided with automatic faucets dispensing a maximum of 0.25 gallon per metering cycle.

Section 423.3 Footbaths and pedicure baths. REVISE section by ADDING the following at the end of the paragraph:

Provide backflow prevention on both the cold and hot water supply to each individual bath.

For tub fill only, provide air gap of “3” times the diameter of each water inlet. Or reduced pressure principle backflow prevention assembly. Or pressure type vacuum breaker install not less than 12” above the flood rim of the bath.

Drainage from each bath shall terminate with an air gap at an indirect waste receptor that includes a floor sink or washer standpipe. Gravity drains from tubs can be directly connected to the waste system through a trap and vent.

ADD new section 424.1.1 to read:

424.1.1 Waterless urinals. All urinals installed in new construction shall be of the waterless type. When a flushing urinal is replaced, every effort shall be made to replace it with a waterless unit.

Section 504.6 Requirements for discharge piping. REVISE section by DELETING item number 2 for areas at or less than 4000 feet elevation.”

Section 604.3 Water distribution system design criteria. REVISE section by DELETING the last sentence and REPLACING it with the following:

The minimum flow rate for fixtures and appliances not listed in Table 604.3 shall be in accordance with the manufacture’s installation instructions. The minimum flow pressure at the fixture or appliance shall be 15 psi or the flow pressured prescribed by the fixture or appliance manufacturer.

Table 604.3 Water distribution system design criteria required capacity at fixture supply pipe outlets. REVISE table by DELETING the column titled “FLOW PRESSURE (psi)” in its entirety.

Section 608.17.4 Connections to automatic fire sprinkler systems and standpipe systems. REVISE section by DELETING all text therein and in subsection 608.17.4.1 and REPLACING it with the following:

The potable water supply to automatic fire sprinkler and standpipe systems shall be protected against backflow in accordance with ARS § 41-2168.

Section 609.6 Clinical, hydrotherapeutic and radiological equipment. REVISE section by ADDING a second sentence to read:

“If water is used for cooling or heat removal, it shall comply with the *International Mechanical Code*, amended section 930.”

Section 714.1 Sewage backflow. REVISE section by DELETING the paragraph and ADDING new text to read:

Where the finish floor elevation is less than 12 inches above the elevation of the next upstream manhole cover in the sewer, a backwater valve shall be installed in the building drain or branch of the building drain serving that floor. Floors discharging from above that reference point shall not discharge through the same back water valve.

Section 903.1 Roof extension. INSERT [number] as “6” inches (for elevations at or less than 4000 ft) and “30” inches (for elevations greater than 4000 ft).

Section 1003.3 Grease interceptors. DELETE section and Table 1003.3.5.1 and REPLACE with the following:

Hydromechanical and gravity grease interceptors shall be designed and installed per Industrial Wastewater Ordinance by Pima County Regional Wastewater Reclamation Department Industrial Wastewater Control Section, Article XIV Grease management Program.

A Fixtures to be connected to a grease interceptor located within the kitchen area or subject to grease waste¹:

- pre-rinse and or pre-wash sinks;
- two or three compartment sinks;
- meat prep sink;
- wok stoves;
- self cleaning stove ventilation/exhaust hood;
- kitchen floor drains;
- floor sinks;

- mop sinks;
- food prep sinks;
- hand sinks²;
- dishwasher; and
- food waste disposal units³

¹ Depending on use and context, the requirement for above listed fixtures to drain through an interceptor may be appealed to RWRD.

² A hand wash sink located in the kitchen area shall either discharge through a grease interceptor or have a sign posted above it stating: "HANDWASH SINK ONLY! NO FOOD PREPARATION OR DISHWASHING ALLOWED."

³ Discharges from food waste disposal units must drain through a maximum 3/8 inch screen or a solids separator prior to pretreatment.

B Hydromechanical grease interceptors

Hydromechanical grease interceptors (HGI), which are generally installed inside, may be used when there are four (4) or fewer fixtures. The minimum size HGI to be installed shall be rated no smaller than 25 gallon per minute with a 50-pound grease capacity. Flow Control devices shall be designed and installed so that the total flow through such devices shall at no time be greater than the rated flow. HGIs shall be designed and tested in accordance with ASME A112.14.3, ASME A112.14.4, CSA B481.1, PDI G101, or PDI G102. HGIs shall be installed in accordance with the manufacturer's instructions. Where manufacturer's instructions are not provided, HGIs shall be installed in compliance with ASME A112.14.3, ASME A112.14.4, CSA B481.1, PDI G101, or PDI G102.

Exception: If a dishwasher or food waste disposal unit is used in the facility, an HGI cannot be used and an appropriately sized GGI or alternative pretreatment device, capable of accepting these wastes, must be installed.

C Grease interceptor sizing criteria

Gravity grease interceptor (GGI) shall be sized in accordance with table or formula below

Gravity Grease Interceptors Table

Drainage Fixture Units per table defined in Pima County Industrial Wastewater Ordinance 13.36.420 (C)	Minimum Size (gallons)
Up to 10 DFU	300
11-16 DFU	500
17-25 DFU	750
26-33 DFU	1,000
34-44 DFU	1250
45-66 DFU	1500
67-111 DFU	2000
Greater than 112 DFU	Contact Industrial Wastewater Control

$$V_{(\min)} = F \times R \times S$$

Where:

- $V_{(\min)}$ = Minimum Gravity Grease Interceptor Operating Volume, gallons
- F = Flow Rate (maximum), gallons per minute
- R = Retention Time = 30 minutes
- S = Storage Factor = 25%

Thus: $V_{(min)} = F \times 30 \times 1.25$

The flow rate shall be determined based on the total flow rate from all equipment and plumbing fixtures connected to the gravity grease interceptor using one of the following equations:

- Drainage Fixture Units (DFU) **less than or equal to 40**: $F = (0.8 \times DFU)$
- Drainage Fixture Units **greater than 40**: $F = (0.3 \times DFU) + 20$

Where: DFU = Drainage Fixture Units per Table defined in Pima County Industrial Wastewater Ordinance 13.36.420 (C)

- The minimum retention time of 30 minutes is based on Wastewater Engineering, Treatment, Disposal and Reuse, Third Edition, Metcalf and Eddy, Inc., McGraw-Hill, Inc., page 1028.
- A minimum of **25%** storage is required for floatable fats, oil and grease and settled solids is required for gravity grease interceptors.
- The minimum sized GGI to be installed shall be 300 gallons.

Note: Providing additional interceptor capacity can reduce an interceptor's maintenance frequency. However, solid accumulation and low flows in an interceptor can, over an extended period of time, produce a corrosive environment which can damage the structural integrity of the interceptor. An oversized interceptor may also generate odor problems.

Gravity grease interceptors shall be designed and tested in accordance with IAPM/ANSI Z1001. GGIs shall be installed per manufacturer's instructions. Where manufacturer's instructions are not provided, GGIs shall be installed in compliance with ASME A112.14.6 and IAPMO/ANSI Z1001.

Grease grease interceptors shall have a minimum of two compartments and two man-ways. All man-ways shall have a minimum 20" inside diameter.

Grease interceptor discharge shall be vented in accordance with chapter 9, provided with cleanout in accordance with section 708, and directly connected to the sanitary drainage system.

Section 1302 On-site nonpotable water reuse systems. DELETE section and REPLACE with the following: Regulated under Arizona Administrative Code (A.A.C.) Title 18, Chapter 9.

Appendix B Rates of rainfall for various cities. REVISE appendix by ADDING "Tucson.... 3.0" under "Arizona".



Ordinance 2018-__ Exhibit F

Amendments to the:
2018 International Fuel Gas Code



Chapter 1 Administration. DELETE chapter 1 with the exception of sections 101.2.4 and 107. (Deleted sections are administered by 2018 IBC, Chapter 1).



Amendments to the:
2018 International Energy Conservation Code



Chapter 1 [CE] Scope and administration. REVISE chapter by DELETING Part 2-Administration and enforcement. . (Deleted sections are administered by 2018 IBC, Chapter 1).

Section C101.1 Title. Insert:[name of jurisdiction] as “Pima County, AZ”.

Section C102.1.1 Above code programs. REVISE section by ADDING the following at the end of the paragraph:

Compliance with the Net-Zero Energy Standard shall be deemed to comply with this code.

Section C402.1.1 Low-energy buildings. REVISE section by ADDING item #4:

Structure with areas not intended for public occupancy that have opening in the thermal envelop during business operations and do not utilize air conditioning, such as repair garages, fabrication shops, warehouses, or similar facilities.

Section C403.1.1 Calculations of heating and cooling loads. REVISE section by ADDING the following at the end of the paragraph:

Not required for emergency replacement of cooling and heating equipment where there are no alterations, additions, or changes of occupancy, the equipment does not increase in capacity, and the equipment was installed prior to January 1, 2013.

Chapter 1 [RE] Scope and administration. REVISE chapter by DELETING Part 2-Administration and enforcement. (Deleted sections are administered by 2018 IBC, Chapter 1).

Section R101.1 Title. Insert:[name of jurisdiction] as “Pima County”.

Section R102.1.1 Above code programs. REVISE section by ADDING the following at the end of the paragraph:

Compliance with the Net-Zero Energy Standard shall be deemed to comply with this code.

ADD new section R302.2 to read:

Section R302.2 Exterior design conditions.

Table R302.1
Exterior Design Conditions

Pima County Arizona				
CONDITION		West of the easterly boundary of the principal Tohono O’odham Reservation	Under 4,000 feet elevation	4,000 feet elevation & above
Winter	Design Dry Bulb Temp	36°F	35°F	4°F
Summer	Design Dry Bulb Temp	107°F	105°F	90°F
	Design Wet Bulb Temp	69°F	66°F	61°F
Climate zone		2B	2B	5B

Table R402.1.4 U-Factor alternative. REVISE the section by ADDING the following to the end of footnote i:
In climate zone 2, an un-insulated earth mass wall with a maximum U-factor of 0.14 shall be deemed in compliance (for computing the U-factor, an R value of 0.3 per inch shall be used for adobe and rammed earth).

Section R402.4.1.2 Testing. REVISE section by DELETING the third sentence and REPLACING with the following:

Testing shall be conducted by individuals holding current certification for such testing from Residential Energy Services Network (RESNET), Building Performance Institute (BPI) or other *approved* agencies.



Ordinance 2018-__ Exhibit H



Amendments to the:
2018 International Property Maintenance Code

Section 101.1 Title. Insert:[name of jurisdiction] as "Pima County, AZ".

Section 101.2 Scope. REVISE this section by DELETING the paragraph and replacing it with the following:
The provisions of this code shall apply to all vacant and/or unsecured dangerous buildings, as herein defined, which are now in existence or which may hereafter become dangerous in this jurisdiction.

Section 101.3 Intent. REVISE this section by DELETING the paragraph and replacing it with the following:
It is the purpose of this code to provide a just, equitable and practicable method, to be cumulative with and in addition to any other remedy provided by the building code, or otherwise available by law, whereby buildings or structures which from any cause endanger the life, limb, health, morals, property, safety or welfare of the general public or their occupants may be required to be secured, repaired, vacated or demolished.

ADD new section 101.5 to read:

Section 101.5 Duty to clean and secure vacant buildings and structures. The owner of a vacant building or structure shall remove accumulation of weeds, combustible waste or rubbish from the interior of the building or structure and the surrounding yards; and shall secure all doors, windows, and other openings as required by and in accordance with standards on file with the Building Official.

Section 102.3 Application of other codes. REVISE this section by DELETING the paragraph and replacing it with the following:
Repairs, additions or alterations to a structure, or change of occupancy, shall be done in accordance with the procedures and provisions of the regulatory codes as adopted by this jurisdiction which are in effect at the time such work is undertaken.

Section 102.7 Referenced codes and standards. DELETE this section in its entirety.

Section 103 Department of property maintenance inspection. DELETE this section in its entirety.

Section 107.2 Form. REVISE section by DELETING item 4 and REPLACING with the following:
4. Include a correction order allowing no less than thirty (30) days time to make the repairs and improvements required to bring the dwelling unit or structure into compliance with the provisions of this code.

Section 107.2 Form. REVISE section by ADDING new item 7 as follows:
7. Include the estimated cost to the county for the removal if property owner does not comply.

Section 112.4 Failure to comply. Delete [less than amount] and insert [more than amount] as "\$10,000 per instance per day for commercial work/property and \$750 per instance per day for other".

Chapter 2 Definitions. DELETE this chapter in its entirety.

Chapter 3 General Requirements. DELETE this chapter in its entirety.

Chapter 4 Light, Ventilation and Occupancy Limitations. DELETE this chapter in its entirety.

Chapter 5 Plumbing Facilities and Fixture Requirements. DELETE this chapter in its entirety.

Chapter 6 Mechanical and Electrical Requirements. DELETE this chapter in its entirety.

Chapter 7 Fire Safety Requirements. DELETE this chapter in its entirety.

Chapter 8 - Referenced Standards. DELETE this chapter in its entirety.



Ordinance 2018-__ Exhibit I



Amendments to the:
2018 International Wildland-Urban Interface Code

Chapter 1 Scope and administration. REVISE chapter by DELETING Part 2-Administration and enforcement. (Deleted sections are administered by 2018 IBC, Chapter 1).

Section 101.1 Title. Insert:[name of jurisdiction] as "Pima County, AZ".

Section 101.2 Scope. REVISE section by DELETING the first paragraph and REPLACING with the following:

This code shall apply only to areas designated rural forest village under the Pima County Comprehensive Plan and areas encircled thereby.

Section 402.1.1 Access. REVISE section by DELETING the word: "new" and capitalize the "s" in subdivision.

Section 403.2 Driveways. REVISE section by DELETING "of the first story" in the first sentence.

Section 403.3 Fire apparatus access road. REVISE section by DELETING the first two words of the first sentence "When required" and capitalize the "f" in fire. ADD the following to the end of the paragraph:

Exception: access roads as approved by the fire districts.

Section 501.1 Scope. REVISE section by REPLACING occurrences of "50 feet" with "10 feet" and REPLACING "120 square feet" with "200 square feet".

Section 602.1 General. REVISE section by DELETING text and REPLACING with the following: Automatic sprinkler systems as required by fire district having jurisdiction.

Section 604.1 General. REVISE section by ADDING the following second sentence: "Defensible space maintenance shall be enforced by the fire district."

Adopt **Appendix C Fire hazard severity form**, content of which to be approved by the fire district prior to acceptance for review.



Ordinance 2018-__ Exhibit J

Amendments to the:
2018 International Existing Building Code



Chapter 1 Scope and administration. DELETE chapter 1 with the exception of sections 101.2 through 101.4.
(Deleted sections are administered by 2018 IBC, Chapter 1).



Ordinance 2018-__ Exhibit K

Amendments to the:
2018 International Swimming Pool and Spa Code



Chapter 1 Administration. DELETE chapter 1 with the exception of sections 101, 102.7, 104.11, 106 and 107. (Deleted sections are administered by 2018 IBC, Chapter 1).

Section 301 Scope. REVISE section by DELETING the word "public" in the first sentence and by DELETING the text "Chapter 4 through 10" and REPLACING with "Chapters 5 and Chapters 7 through 10."

Section 304 Flood Hazard Areas. REVISE section by DELETING section in its entirety and REPLACING with the following: Pools and spas located in flood hazard areas require written authorization by the floodplain jurisdiction.

Section 305.2 Outdoor swimming pools and spas. REVISE first sentence by ADDING the following after the word "pools" and before the word "shall":
"or other contained body of water that contains water eighteen inches "18" or more in depth at any point and that is wider than eight feet at any point and is intended for swimming".

Section 305.4 Structure wall as a barrier. REVISE item # 1 sentence three by DELETING all words after word "structures" and ending with the last "units", and by DELETING sentence four in its entirety.

Section 306.3 Steps risers and treads. REVISE section by DELETING the first sentence in its entirety.

Section 306.4 Deck steps handrail required. REVISE section by DELETING the first word of the sentence, and capitalize the "p".

Section 306.9.1 Hose Bibbs. REVISE section by DELETING all words after 102.71 and the exception.

Section 307.1.2 Colors and finishes. REVISE section by DELETING it in its entirety.

Section 307. 1.4 Accessibility. REVISE section by DELETING it in its entirety.

Section 307. 2.4 Surface conditions. REVISE section by DELETING it in its entirety.

Section 309.2 Treatment and circulation system equipment. REVISE section by DELETING it in its entirety.

Section 311.2 System Design. REVISE section by DELETING the second sentence and the exception in its entirety.

Section 313.7 Emergency shutoff switch. REVISE section by DELETING it in its entirety.

Section 315.2 Required. REVISE section by DELETING the first sentence, and exception #1 and renumbering exception #2 to #1.

Section 315.2.1 Circulation system. REVISE section by DELETING it in its entirety.

Section 315.3 Skimmer sizing. REVISE section by DELETING the Public pool line in Table 315.3 SKIMMER SIZING TABLE.

Section 316.4.2 Access prohibited. REVISE section by DELETING it in its entirety.

Section 320.1 Backwash water or draining water. REVISE section by DELETING the first sentence and REPLACING it with the following:

Backwash water and draining water shall be discharged in accordance with Pima County Department of Environmental Quality Swimming Pool and Spa Discharge Guidelines.

Section 321.1 General. REVISE section by DELETING first sentence in its entirety.

Section 321.2 Artificial lighting required. REVISE section by DELETING it in its entirety.

Section 321.3 Emergency illumination. REVISE section by DELETING it in its entirety.

Section 322.1 General. REVISE section by DELETING the text “Chapter 4 through 10” and REPLACING with “Chapters 5 and Chapters 7 through 10”.

Section 323.2.1 Height. REVISE section by DELETING the first sentence in its entirety.

Chapter 4 Public Swimming Pools. DELETE this chapter in its entirety.

Chapter 5 Public Spas and Public Exercise Spas. REVISE chapter by DELETING all the words “Public” and REPLACING with “Residential”.

Section 504 Pumps & Motors. REVISE section by DELETING it in its entirety.

Section 508 Sanitizing, oxidation equipment and chemical feeders. REVISE section by DELETING it in its entirety.

Section 509 Safety features. REVISE section by DELETING it in its entirety.

Chapter 6 Aquatic Recreation Facilities. DELETE this chapter in its entirety.