

ORDINANCE NO. 2019-871

AN ORDINANCE OF THE MAYOR AND COMMON COUNCIL OF THE TOWN OF CHINO VALLEY, ARIZONA, ADOPTING BY REFERENCE THE "2018 INTERNATIONAL BUILDING CODE," THE "2018 INTERNATIONAL RESIDENTIAL CODE," THE "2018 INTERNATIONAL EXISTING BUILDING CODE," THE "2018 INTERNATIONAL MECHANICAL CODE," THE "2018 INTERNATIONAL PLUMBING CODE," THE "2017 NATIONAL ELECTRICAL CODE," THE "2018 INTERNATIONAL FUEL GAS CODE," AND "THE TOWN OF CHINO VALLEY BUILDING AND TECHNICAL CODE AMENDMENTS;" AMENDING THE CHINO VALLEY TOWN CODE, CHAPTER 150 RELATING TO BUILDING CODES; ESTABLISHING AN EFFECTIVE DATE AND PROVIDING PENALTIES FOR VIOLATIONS.

WHEREAS, many neighboring communities have adopted, or are in the process of adopting, the most-current editions of national and international building codes; and

WHEREAS, the Mayor and Common Council of the Town of Chino Valley (the "Town Council") desires to bring uniformity to the building community and to prohibit unsafe construction procedures and materials; and

WHEREAS, Chapter 150 of the Chino Valley Town Code specifies the building construction codes that are to be followed within the corporate limits of the Town of Chino Valley (the "Town"); and

WHEREAS, the Town Council desires to amend the Chino Valley Town Code, Chapter 150 (Building Regulations; Construction) to amend provisions relating to the codification of the previously-adopted 2012 International Building Code, 2012 International Residential Code for one- and two-family dwellings, 2012 International Mechanical Code, 2012 International Plumbing Code, 2011 National Electrical Code, 2012 International Fuel Gas Code, 2012 International Energy Conservation Code and the Town of Chino Valley Building and Technical Code Amendments, 2015 Edition, to adopt the most-current editions of such codes.

NOW, THEREFORE, BE IT ORDAINED by the Mayor and Common Council of the Town of Chino Valley, Arizona, as follows:

SECTION 1. The recitals above are hereby incorporated as if fully set forth herein.

SECTION 2. Those certain documents known as the "2018 International Building Code," the "2018 International Residential Code for One- and Two-Family Dwellings," the "2018 International Existing Building Code," the "2018 International Mechanical Code," the "2018 International Plumbing Code," the "2017 National Electrical Code," the "2018 International Fuel Gas Code," (collectively, the "2018 Building Codes") and "The Town of Chino Valley Building and Technical Code Amendments, 2018 Edition (the "Chino Valley Amendments") (the Chino

Valley Amendments and the 2018 Building Codes are collectively referred to herein as the "Technical Codes") one paper copy and one electronic copy maintained in compliance with ARIZ. REV. STAT. § 44-7041 of which are on file in the office of the Town Clerk as required by ARIZ. REV. STAT. § 9-802 and are available for public use and inspection during normal business hours, which Technical Codes are hereby declared to be public records, which public records are hereby referred to, adopted and made a part hereof as if fully set forth in this Ordinance and which are hereby ordered to remain on file with the Town Clerk.

SECTION 3. The Chino Valley Town Code, Chapter 150 (Building Regulations; Construction), Section 150.001 (Adoption of International Code Council Codes), is hereby amended to reflect the adoption of the Technical Codes, as follows:

§ 150.001 ADOPTION OF INTERNATIONAL CODE COUNCIL CODES.

(A) *International Building Code.* That certain code entitled International Building Code, ~~2012~~ 2018 Edition, together with appendices B, C, I, and J, published by the International Code Council, as amended by the Town of Chino Valley Building and Technical Code Amendments – ~~2015~~ 2018 Edition, is hereby adopted as the Building Code of the town for regulating the erection, construction, enlargement, replacement, alteration, repair, moving, removal, demolition, conversion, occupancy, equipment, use, location, height, area and maintenance of all buildings or structures in the town and said building code is hereby referred to and made a part hereof as though fully set forth in this section. ONE PAPER COPY AND ONE ELECTRONIC COPY MAINTAINED IN COMPLIANCE WITH ARIZ. REV. STAT. § 44-7041 ~~Three copies~~ of said building code shall be kept on file and available for public use in the office of the Town Clerk and Planning and Building Department.

(B) *International Residential Code for one- and two-family dwellings.* That certain code entitled International Residential Code, For One- and Two-Family Dwellings, ~~2012~~ 2018 Edition, together with appendices A, B, C, H, J, L and Q, published by the International Code Council, as amended by the Town of Chino Valley Building and Technical Code Amendments - ~~2015~~ 2018 Edition is hereby adopted as the Residential Code for one- and two-family dwellings of the Town of Chino Valley for regulating the erection, construction, enlargement, replacement, alteration, repair, moving, removal, demolition, conversion, occupancy, equipment, use, location, height, area and maintenance of all one- and two-family dwellings in the town and said residential code is hereby referred to and made a part hereof as though fully set forth in this section. ONE PAPER COPY AND ONE ELECTRONIC COPY MAINTAINED IN COMPLIANCE WITH ARIZ. REV. STAT. § 44-7041 ~~Three copies~~ of said building code shall be kept on file and available for public use in the office of the Town Clerk and Planning and Building Department.

(C) *International Fuel Gas Code.* That certain code entitled International Fuel Gas Code, ~~2012~~ 2018 Edition, together with appendices A, B, and C published by the International Code Council, as amended by the Town of Chino Valley Building and Technical Code Amendments - ~~2015~~ 2018 Edition is hereby adopted as the Fuel Gas Code of the Town of Chino Valley for regulating and controlling the design, construction, installation, quality of materials, location, operation and maintenance or use of fuel gas systems and gas-fired appliances and said fuel gas code is hereby referred to and made a part hereof as though fully set forth in this section. ONE PAPER COPY AND ONE ELECTRONIC COPY MAINTAINED IN COMPLIANCE WITH ARIZ. REV. STAT. § 44-7041 ~~Three copies~~ of said building code shall be kept on file and available for public use in the office of the Town Clerk and Planning and Building Department.

(D) *International Mechanical Code*. That certain code entitled International Mechanical Code, 2012 2018 Edition, together with appendix A, published by the International Code Council, as amended by the Town of Chino Valley Building and Technical Code Amendments - 2015 2018 Edition, is hereby adopted as the Mechanical Code of the Town of Chino Valley for regulating and controlling the design, construction, installation, quality of materials, location, operation and maintenance or use of heating, ventilating, cooling, refrigeration systems, incinerators, and other miscellaneous heat-producing appliances in the town and said mechanical code is hereby referred to and made a part hereof as though fully set forth in this section. ONE PAPER COPY AND ONE ELECTRONIC COPY MAINTAINED IN COMPLIANCE WITH ARIZ. REV. STAT. § 44-7041 ~~Three copies~~ of said building code shall be kept on file and available for public use in the office of the Town Clerk and Planning and Building Department.

(E) *International Plumbing Code*. That certain code entitled International Plumbing Code, 2012 2018 Edition, together with appendices D AND E and ~~F~~, published by the International Code Council, as amended by the Town of Chino Valley Building and Technical Code Amendments - 2015 2018 Edition is hereby adopted as the Plumbing Code of the Town of Chino Valley for regulating and controlling the design, construction, quality of materials, erection, installation, alteration, repair, location, replacement, addition to, operation and maintenance or use of plumbing systems in the town and said plumbing code is hereby referred to and made a part hereof as though fully set forth in this section. ONE PAPER COPY AND ONE ELECTRONIC COPY MAINTAINED IN COMPLIANCE WITH ARIZ. REV. STAT. § 44-7041 ~~Three copies~~ of said building code shall be kept on file and available for public use in the office of the Town Clerk and Planning and Building Department.

(F) *International Energy Conservation Code*. That certain code entitled International Energy Conservation Code, 2012 Edition, published by the International Code Council, INCLUDING ALL APPENDICES, as amended by the Town of Chino Valley Building and Technical Code amendments - 2015 2018 Edition, is hereby adopted as the Energy Conservation Code of the Town of Chino Valley for regulating and governing energy efficient building envelopes and installation of energy efficient mechanical, lighting, and power systems of all buildings or structures in the town and said energy conservation code is hereby referred to and made a part hereof as though fully set forth in this section. ONE PAPER COPY AND ONE ELECTRONIC COPY MAINTAINED IN COMPLIANCE WITH ARIZ. REV. STAT. § 44-7041 ~~Three copies~~ of said building code shall be kept on file and available for public use in the office of the Town Clerk and Planning and Building Department.

(G) *INTERNATIONAL EXISTING BUILDING CODE*. THAT CERTAIN CODE ENTITLED INTERNATIONAL EXISTING BUILDING CODE, 2018 EDITION, PUBLISHED BY THE INTERNATIONAL CODE COUNCIL, INCLUDING ALL APPENDICES, IS HEREBY ADOPTED AS THE EXISTING BUILDING CODE OF THE TOWN OF CHINO VALLEY FOR REGULATING THE REPAIR, ALTERATION, CHANGE OF OCCUPANCY, ADDITION TO AND RELOCATION OF EXISTING BUILDINGS AND SAID EXISTING BUILDING CODE IS HEREBY REFERRED TO AND MADE A PART HEREOF AS THOUGH FULLY SET FORTH IN THIS SECTION. ONE PAPER COPY AND ONE ELECTRONIC COPY MAINTAINED IN COMPLIANCE WITH ARIZ. REV. STAT. § 44-7041 OF SAID BUILDING CODE SHALL BE KEPT ON FILE AND AVAILABLE FOR PUBLIC USE IN THE OFFICE OF THE TOWN CLERK AND PLANNING AND BUILDING DEPARTMENT.

SECTION 4. The Chino Valley Town Code, Chapter 150 (Building Regulations; Construction), Section 150.004 (Electrical Code), is hereby amended to reflect the adoption of the Technical Codes, as follows:

§ 150.004 ELECTRICAL CODE.

That certain code entitled "National Electrical Code", 2014 2017 Edition, published by the National Fire Protection Association, INCLUDING ALL APPENDICES, ~~as amended by the "Town of Chino Valley Building and Technical Code Amendments—2015 Edition"~~ is hereby adopted as the Electrical Code of the Town of Chino Valley for regulating the installation, alteration and maintenance of all electrical installations in the town and said electrical code is hereby referred to and made a part here of as though fully set forth in this section. ONE PAPER COPY AND ONE ELECTRONIC COPY MAINTAINED IN COMPLIANCE WITH ARIZ. REV. STAT. § 44-7041 ~~Three copies~~ of said building code shall be kept on file and available for public use in the office of the Town Clerk and Planning and Building Department.

SECTION 5. Any person found guilty of violating any provision of the Technical Codes shall be guilty of a civil infraction as set forth in Section 10.99 of the Chino Valley Town Code. Each day that a violation continues shall be a separate offense.

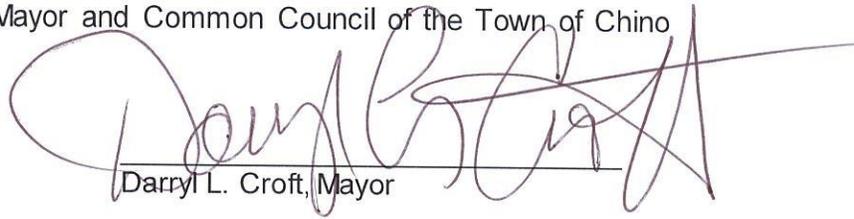
SECTION 6. This Ordinance shall become effective 30 days after its passage, but the Technical Codes adopted herein shall not become effective until at 12:01 a.m. on July 1, 2019, or if the effectiveness of this Ordinance is prohibited by Arizona law at such time, then this Ordinance shall become effective at the earliest such later time as authorized by Arizona law.

SECTION 7. If any section, subsection, sentence, clause, phrase or portion of this Ordinance is for any reason held to be invalid or unconstitutional by the decision of any court of competent jurisdiction, such decision shall not affect the validity of the remaining portions of this Ordinance.

SECTION 8. The Mayor, the Town Manager, the Town Clerk and the Town Attorney are hereby authorized and directed to take all steps necessary to carry out the purpose and intent of this Ordinance.

[SIGNATURES ON FOLLOWING PAGE]

PASSED AND ADOPTED by the Mayor and Common Council of the Town of Chino Valley, Arizona this 28th day of May, 2019.



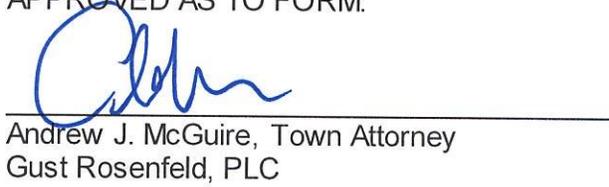
Darryl L. Croft, Mayor

ATTEST:



Jami C. Lewis, Town Clerk

APPROVED AS TO FORM:



Andrew J. McGuire, Town Attorney
Gust Rosenfeld, PLC

I hereby certify the above foregoing Ordinance No. 2019-871 was duly passed by the Council of the Town of Chino Valley, Arizona, at a meeting held on May 28, 2019, and that quorum was present, and that the vote thereon was 7 ayes and 0 nays and 0 abstentions. 0 Council members were absent or excused.



Jami C. Lewis, Town Clerk

**Town of Chino Valley
Building and Technical Code Amendments
2018 Edition**

INTERNATIONAL BUILDING CODE AMENDMENTS

CHAPTER 1 SCOPE AND ADMINISTRATION

Section 101.1 entitled “Title” is hereby amended to read as follows:

These regulations shall be known as the Town Building Code of the Town of Chino Valley, herein known as “this code.”

Section 101.4.4 entitled “Property maintenance” is hereby deleted in its entirety.

Section 101.4.5 entitled “Fire prevention” is hereby deleted in its entirety.

Section 102.6 entitled “Existing Structures” is hereby amended to read as follows:

The legal occupancy of any structure existing on the date of the adoption of this code shall be permitted to continue without change, except as is specifically covered in this code and **The International Existing Building Code** or as is deemed necessary by the building official for the general health, safety and welfare of the structure occupants and the public.

Section 105.2 entitled “Work exempt from permit” Item #4 under the category “Building” is hereby amended to read:

Retaining walls that are not over 32 inches in height measured from the top of the footing to the top of the wall, unless supporting a surcharge or impounding Class I, II or IIIA liquids.

Section 107.1 entitled “General” is hereby amended by adding an additional sentence at the end thereof and before “Exception,” to read as follows:

When construction documents are required to be sealed by a qualified registrant according to Title 32, Chapter 1, Arizona Revised Statutes, the H.V.A.C. designs shall also be sealed by a qualified registrant.

Section 109.3 entitled “Building permit valuations” is hereby amended to read as follows:

The determination of valuations to establish fees shall be guided by the International Code Council valuation schedule, the International Building Standards Magazine and as adjusted to reflect current construction costs. Such fees shall be reviewed and adjusted annually by the Building Official and approved by the Town Council.

Section 109.6 entitled “Refunds” is hereby amended to read as follows:

The Building Official is authorized to refund any fee paid hereunder, when such fee was erroneously paid or collected.

The Building Official shall be authorized to refund not more than 75 percent of the permit fee paid when the permit is withdrawn or canceled before any work has commenced. Plan check fees are nonrefundable. A written request by the applicant shall be submitted to the Building Official outlining the refund request before the refund process will begin.

Section 110.3.3 entitled “Lowest floor elevation” is hereby deleted in its entirety.

Section 111.2 entitled “Certificate issued” is hereby amended to read as follows:

After the Building Official inspects the building or structure and finds no violations of the provisions of this code or other laws that are enforced by the Town of Chino Valley or Yavapai County, the Building Official shall issue a certificate of occupancy that contains the following:

(Items 1 through 12 to remain the same.)

Section 111.3 entitled “Temporary Occupancy” is hereby amended to read as follows:

The Building Official is authorized to issue a temporary certificate of occupancy before the completion of the entire work covered by the permit, provided that such portion or portions shall be occupied safely and the applicant has received approval from the appropriate Town of Chino Valley and Yavapai County departments as required. The Building Official shall set a time period during which the temporary certificate is valid.

CHAPTER 2 DEFINITIONS

Section 201.4 entitled “Terms not defined” is hereby amended to read as follows:

Where terms are not defined through the methods authorized by this Chapter, such terms shall have ordinarily accepted meanings such as the context implies. **Webster’s Third New International Dictionary of the English Language, Unabridged**, shall be considered as providing ordinarily accepted meanings.

Section 202 “Definitions” is hereby amended by addition of the following new terms:

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.

PERSONAL CARE SERVICE: The care of persons who do not require medical care. Personal care involves assistance with activities of daily living and includes responsibility for the safety of the persons while inside a building.

RESIDENTIAL CARE/ASSISTED LIVING HOME: A building or part thereof housing, on a 24-hour basis, a maximum of 10 persons, not more than two per bedroom (excluding staff), who because of age, mental disability or other reasons, require a supervised residential environment that provides supervisory, personal or directed care services. This classification shall include, but not be limited to the following:

Alcohol and Abuse Centers
Assisted Living Facilities

Convalescent Facilities
Group Homes
Halfway Houses
Social Rehabilitation Facilities

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

CHAPTER 9 FIRE PROTECTION SYSTEMS is hereby deleted in its entirety and replaced with the following:

Fire protection systems shall be installed, repaired, operated, maintained and enforced in accordance with the requirements of the **Central Arizona Fire and Medical Authority** and the **International Fire Code** (as adopted and amended from time to time by the **Central Arizona Fire and Medical Authority**), collectively, "**Central Arizona Fire and Medical Authority** requirements." The Building Official shall assist the **Central Arizona Fire and Medical Authority** in the inspection, testing and oversight of fire protection systems as may be required from time to time. The Building Official shall withhold approvals where fire protection systems are not in compliance with **Central Arizona Fire and Medical Authority** requirements.

CHAPTER 11 ACCESSIBILITY

SECTION 1101 – GENERAL

Section 1101.2 “Design” is hereby amended to read as follows:

Accessibility requirements will be those stated in, **The 2010 Standards for Accessible Design**, published by the United States Justice Department.

CHAPTER 12 INTERIOR ENVIRONMENT

Section 1207 entitled “SOUND TRANSMISSION” is hereby deleted in its entirety.

CHAPTER 15 ROOF ASSEMBLIES AND ROOFTOP STRUCTURES

Section 1507.3.1 entitled “Deck requirements” is hereby amended to read as follows:

Concrete and clay tile shall be installed over solid sheathing.

Section 1507.4.1 entitled “Deck requirements” is hereby amended to read as follows:

Metal roof panel coverings shall be applied to a solid sheathed roof deck.

Section 1507.5.1 entitled “Deck requirements” is hereby amended to read as follows:

Metal roof shingles shall be applied to a solid sheathed roof deck.

Section 1507.8.1 entitled “Deck requirements” is hereby amended to read as follows:

Wood shingles shall be installed on solid sheathing.

Table 1507.8 entitled “Wood shingles and Shake Installation” is hereby amended as follows:

Item 2, Deck Requirement - under both headings, delete the references to spaced sheathing and associated installation requirements. Solid sheathing is required.

Section 1507.9.1 entitled “Deck requirements” is hereby amended to read as follows:

Wood shakes shall be installed on solid sheathing.

CHAPTER 16 STRUCTURAL DESIGN

Table 1607.1 - #25 is hereby amended to modify the standards for Residential One and two-family dwellings, as follows:

Uninhabitable attics with storage: changed from 20 psf. to 40 psf.
Habitable attics and sleeping areas: changed from 30 psf. to 40 psf.

CHAPTER 18 SOILS AND FOUNDATIONS

Section 1809.4 entitled “Depth and width of footings” is hereby amended to read:

The minimum depth of footings below the undisturbed ground surface shall be 18 inches.
The minimum width of footings shall be 12 inches.

Section 1809.5 entitled “Frost Protection” is hereby amended to delete all of the text within the Exception.

INTERNATIONAL RESIDENTIAL CODE FOR ONE-AND TWO-FAMILY DWELLINGS AMENDMENTS

CHAPTER 1 SCOPE AND ADMINISTRATION

Section R101.1 entitled “Title” is hereby amended to read as follows:

These provisions shall be known as the Town Residential Code for One-and Two-Family Dwellings of the Town of Chino Valley, herein known as “this code.”

Section R102.7 entitled “Existing Structures” is hereby amended to read as follows:

The legal occupancy of any structure existing on the date of the adoption of this code shall be permitted to continue without change, except as is specifically covered in this code, or the **International Fire Code**, or as is deemed necessary by the building official for the general health, safety and welfare of the structure occupants and the public.

Section R105.2 entitled “Work exempt from permit” is hereby amended by modifying #10 under the “Building” heading to read as follow:

10. Decks, the walking surface of which is not more than 30 inches above the surrounding grade and less than 120 sq. ft. of surface area.

Section R105.3.1.1 entitled “**Determination of substantially improved or substantially damaged existing buildings in flood hazard areas**” is hereby deleted in its entirety.

Section R108.3 entitled “**Building permit valuations**” is hereby amended to read as follows:

The determination of valuations to establish fees shall be guided by the regionally modified building valuations recommended by the International Code Council, the International Building Standards Magazine and as adjusted to reflect current construction costs. Such fees shall be reviewed and adjusted annually by the Building Official and approved by the Town Council.

Section R108.5 “Refunds” shall be amended to read as follows:

The Building Official is authorized to refund any fee paid hereunder, when such fee was erroneously paid or collected.

The Building Official shall be authorized to refund not more than 75 percent of the permit fee paid when the permit is withdrawn or canceled before any work has commenced. Plan check fees are nonrefundable. A written request by the applicant shall be submitted to the Building Official outlining the refund request before the refund process will begin.

SECTION R112 entitled “**BOARD OF APPEALS**” is hereby deleted in its entirety and replaced with a new **SECTION R112** entitled “**MEANS OF APPEAL**” to read as follows:

SECTION R112 MEANS OF APPEAL

R112.1 “General.”

Refer to the **International Building Code, Section 113**, entitled “**Board of Appeals**” and **International Building Code, Appendix B**.

CHAPTER 2 DEFINITIONS

Section R201.4 entitled “**Terms not defined**” is hereby amended by adding a sentence at the end thereof, to read as follows:

Where terms are not defined through the methods authorized by this section, such terms shall have ordinarily accepted meanings such as the context implies. Webster’s Third New International Dictionary of the English Language, Unabridged, shall be considered as providing ordinarily accepted meanings.

CHAPTER 3 BUILDING PLANNING

Table R301.2 (1) entitled “**CLIMATE AND GEOGRAPHICAL DESIGN CRITERIA**” is hereby amended to read include text in the respective boxes as follows:

Roof (amended from “ground”) Snow Load: 30 lbs. /per sq. ft.
Wind Design – Speed: 115 mph - 3 second gust

Wind Design – Topographical Effects: Exposure C
Seismic Design Category: C
Subject to Damage From – Weathering: Negligible
Subject to Damage From – Frost Line Depth: 18 inches
Subject to Damage From – Termite: Moderate
Subject to Damage From – Decay (added): Slight
Winter Design Temperature: 15 degrees
Ice Barrier Underlayment Required: No
Flood Hazards: Administered by the Building Official
Air Freezing Index: 124
Mean Annual Temp.: 53 degrees.

Table R301.5 entitled “**MINIMUM UNIFORMLY DISTRIBUTED LIVE LOADS**” is hereby amended by deleting the minimum live load of 20 lbs. in attics with storage and a minimum of 30 lbs. in sleeping rooms, and replaced with 40 lbs. minimum in both areas.

Section R305.1 entitled “**Minimum height**” is amended to read:

The minimum ceiling height for any habitable room shall be 7’6” (seven feet, six inches.)

Section R309.5 entitled “**Fire Sprinklers**” is hereby deleted in its entirety.

Section R313 entitled “**Automatic Fire Sprinkler Systems**” is hereby amended to read:

Automatic Fire Sprinkler Systems must meet the State of Arizona Statutes and the requirements set forth by the **Central Arizona Fire and Medical Authority**.

Section R314.3 entitled “**Location**” is hereby amended by deleting item 4 thereof and replacing it with the following:

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

CHAPTER 4 FOUNDATIONS

Section R403.1.1 “Minimum Size” is hereby amended by adding the following paragraph to read:

Continuous spread concrete footings shall be reinforced with at least one #4 horizontal reinforcement bar located three inches (3”) from the bottom of the footing. Monolithic interior and exterior concrete footings shall be reinforced with at least one #4 horizontal reinforcement bar located three inches (3”) from the bottom of the footing and one #4 horizontal reinforcement bar located three inches (3”) from the top of the slab. Pier and column footings shall be reinforced with #4 horizontal reinforcement bars spaced no more than twelve inches (12”) in each direction and located three inches (3”) from the bottom of the footing.

Section R403.1.3.1 entitled “**Concrete stem walls with concrete footings**” is hereby deleted in its entirety and revised to read as follows:

R403.1.3.1 Foundations with stem walls. Foundations with stem walls shall be provided with the following steel reinforcement, unless an engineered design is provided by a licensed Arizona Design Professional.

1. For non-retaining stem walls less than twenty four inches (24") in height, a bond beam composed of one horizontal #4 rebar is required at the top of the wall and one #4 vertical rebar is provided at forty-eight inches (48") on center. The vertical reinforcement shall extend into the footing with a bent hook having a minimum of six-inch (6") 90 degree bend.
2. For stem walls twenty-four inches (24") to forty-eight inches (48") in height a bond beam composed of two horizontal #4 rebar, or one #5 rebar is required at the top of the wall and one #4 vertical rebar is provided at forty-eight inches (48") on center. The vertical reinforcement shall extend into the footing with a bent hook having a minimum of six-inch (6") 90-degree bend.
3. For stem walls over forty-eight inches (48") in height or retaining two (2) or more feet of earth, engineering may be required to determine footing size, wall thickness, materials, steel placement and size (depending on soil conditions), height, surcharge loading, or other requirements at the option of the building official (or his designee).

Section R403.1.4 entitled "**Minimum depth**" is amended to read as follows:

All exterior footings shall be placed a minimum of eighteen inches (18") into undisturbed or compacted soil approved by the building official.

Section R403.1.4.1 entitled "**Frost protection**" is amended by deleting the **Exceptions** (1, 2, and 3) in their entirety.

SECTION R404 FOUNDATION AND RETAINING WALLS

Section R404.1.2 entitled "**Design of masonry foundation walls**" and **Section R404.1.3** entitled "**Concrete foundation walls**" are hereby deleted in their entirety and replaced with the following:

R404.1.2 Design of Masonry Foundation Walls. Concrete masonry foundation walls shall be constructed as set forth in Tables R404.1.1(2) and R404.1.1 (4) of the International Residential Code for the most restrictive design soil class, provided that the minimum vertical reinforcement is #4 bar spaced no more than 48 inches on center, and shall also comply with the provisions of this section and the applicable provisions of Section R606, R607 and R608. In Seismic Design Category D0, D1 and D2, concrete masonry foundation walls shall comply with Section R404.1.4 of the International Residential Code. Rubble stone masonry walls shall not be used in Seismic Design Category C, D0, D1, or D2.

R404.1.3 Concrete Foundation Walls

Concrete foundation walls shall be constructed as set forth in Tables R404.1.1 (2), R404.1.1 (3), and R404.1.1 (4) of the International Residential Code for the most restrictive design soil class, provided that the minimum vertical reinforcement is #4 spaced no more than 48

inches on center, and shall also comply with the provisions of this section and the applicable provisions of Sections R402.2 and R612 of the International Residential Code.

When Tables R404.4(1) through R404.4(5) of the International Residential Code are utilized for concrete foundation walls, reinforcement shall be as required for soil Group III, as established by Table R405.1 of the International Residential Code, provided that the minimum vertical reinforcement is #4 bar spaced no more than 48" on center. Where Tables R404.4(1) through R404.4(5) of the International Residential Code indicate N/R for vertical reinforcement size and spacing or where the Tables do not indicate the maximum height of unbalanced backfill for various heights, vertical reinforcement and spacing shall be provided as follows:

Maximum unbalanced Backfill Heights (Ft)	Minimum Vertical Reinforcement Size and Spacing On Center
4' and less	#4 @ 48"
5'	#4 @ 32" or #5 @ 48"
6'	#4 @ 20" or # 5 @ 32"
7'	#4 12" or #5 @ 20"

CHAPTER 5 FLOORS

Section R506 "CONCRETE FLOORS (ON GROUND)," Section R506.2.3 entitled "Vapor Retarder," is hereby deleted in its entirety.

CHAPTER 6 WALL CONSTRUCTION

Section R606.12.2.2.3 entitled "Reinforcement Requirements for Masonry Elements" is hereby amended by modifying subsection 2 as follows:

- Vertical reinforcement of at least one #4 bar shall be provided at corners, within 16 inches of each side of openings, within 8 inches of each side of movement joints, within 8 inches of the ends of walls and at a maximum spacing of 48 inches.

CHAPTER 7 WALL COVERING

Table R702.3.5 entitled "Minimum thickness and application of Gypsum Board" is hereby amended by deleting **footnote d** in its entirety.

CHAPTER 9 ROOF ASSEMBLIES

Section R905.3.1 entitled "Deck requirements;" is hereby amended to read as follows:

Clay and concrete tile shall be installed on solid sheathing.

Section R905.4.1 entitled "Deck requirements" is hereby amended to read as follows:

Metal roof shingles shall be installed on solid sheathing.

Section R905.7.1 entitled “**Deck requirements**” is hereby amended to read as follows:

Wood shingles shall be installed on solid sheathing.

Section R905.7.4 entitled “**Material standards**” is hereby amended to read as follows:

Wood shingles shall be factory treated fire-retardant grade 1 minimum.

Section R905.8.1 entitled “**Deck requirements**” is hereby amended to read as follows:

Wood shakes shall be installed on solid sheathing.

Section R905.8.5 entitled “**Material standards**” is hereby amended to read as follows:

Wood shakes shall be factory fire-retardant treated grade 1 minimum.

Section R905.10.1 entitled “**Deck requirements**” is hereby amended to read as follows:

Metal roof panel coverings shall be installed on solid sheathing.

CHAPTER 10 CHIMNEYS AND FIREPLACES

Section R1004.1 entitled “**General**” is hereby amended by adding of a new second sentence to read as follows:

All factory-built fireplaces shall comply with the most-current provisions of 40 CFR 60, Subpart AAA, and A.R.S. § 9-500.16.

CHAPTER 11 ENERGY EFFICIENCY

Chapter 11 entitled “**Energy Efficiency**” is hereby deleted in its entirety, and all regulations relating to energy efficiency shall be included within the “**International Energy Conservation Code**” as adopted by the Town of Chino Valley, and as may be amended from time to time.

CHAPTER 13 GENERAL MECHANICAL SYSTEM REQUIREMENTS

Section M1307.3 entitled “**Elevation of Ignition Source**” is hereby amended to read as follows:

Exception: Elevation of the ignition source is not required for appliance that are listed as flammable-vapor-ignition resistant. **This exception shall not apply to clothes dryers or manufactured sealed ignition (pilot) water heating systems installed in a private garage.**

CHAPTER 14 HEATING AND COOLING EQUIPMENT AND APPLIANCES

Section M1414.1 entitled “**General**” is hereby amended by adding of a new second sentence to read as follows:

All factory-built fireplaces shall comply with the most-current provisions of 40 CFR 60, Subpart AAA, and A.R.S. § 9-500.16.

CHAPTER 24 FUEL GAS

Section G2415.5 entitled “**Fittings in concealed locations**” is hereby amended by adding a sentence to read:

Flexible gas piping shall not be used in exterior walls.

CHAPTER 29 WATER SUPPLY AND DISTRIBUTION

Section P2902.3.5 entitled “**Reduced pressure principle backflow preventer assemblies**” is hereby amended by adding a second paragraph to read as follows:

If only one backflow device is required to be installed on a system it shall be a reduced pressure principle backflow preventer. If more than one backflow device is required to be installed on a system, the reduced pressure principle backflow preventer shall be installed between the water meter and all other devices. The additional devices shall be as specified in Table P2902.3.

Section P2902.4 entitled “**Protection of potable water outlets**” is hereby amended to read as follows:

All connections to the potable water shall conform to Sections P2902.4.1 through 2902.5.6.

A new Section P2902.4.4 entitled “**Yard hydrant**” is hereby added to read as follows:

P2902.4.4 Yard hydrant. Yard hydrants directly connected to the potable water system shall be sanitary yard hydrants.

A new Section P2902.4.4.1 entitled “**Hose Bib Requirements**” is hereby added to read as follows:

P2902.4.4.1 Hose Bib Requirements. All dwelling units shall be provided with a minimum of 2 exterior hose bibs. Hose bibs shall be frost free, anti-siphon type.

Section P2904 entitled “**DWELLING UNIT FIRE SPRINKLER SYSTEMS**” is hereby deleted in its entirety.

Section P2906.6.1 entitled “**Saddle tap fittings**” is hereby deleted in its entirety.

INTERNATIONAL MECHANICAL CODE AMENDMENTS

CHAPTER 1 SCOPE AND ADMINISTRATION

Section 101.1 entitled “**Title**” is hereby amended to read as follows:

These regulations shall be known as the Town Mechanical Code of the Town of Chino Valley, herein known as “this code.”

Section 103 entitled “**DEPARTMENT OF MECHANICAL INSPECTION**” is hereby deleted, to be replaced with a new section 103 entitled “Department of Building and Safety”, to read as follows:

SECTION 103 DEPARTMENT OF BUILDING AND SAFETY.

Section 103.1 entitled “**Enforcement agency**” is hereby created to read as follows:

Section 103.1 Enforcement agency. The Department of Building and Safety shall be the enforcement agency for this code and the official in charge thereof shall be known as the Building Official.

Section 106.5.3 entitled “**Fee refunds**” is hereby amended to read as follows:

The Building Official is authorized to refund any fee paid hereunder, when such fee was erroneously paid or collected.

The Building Official shall be authorized to refund not more than 75 percent of the permit fee paid when the permit is withdrawn or canceled before any work has commenced. Plan check fees are nonrefundable. A written request by the applicant shall be submitted to the Building Official outlining the refund request before the refund process will begin.

Section 108.4 entitled “**Violation penalties**” is hereby deleted in its entirety.

CHAPTER 9 SPECIFIC APPLIANCES, FIREPLACES AND SOLID FUEL- BURNING EQUIPMENT.

Section 903.1 entitled “**General**” is hereby amended by adding a new second sentence to read as follows:

All factory-built fireplaces shall comply with the most-current provisions of 40 CFR 60, Subpart AAA.

Section 904.1 entitled “**General**” is hereby amended by adding a new second sentence to read as follows:

All factory-built fireplaces shall comply with the most-current provisions of 40 CFR 60, Subpart AAA, and A.R.S. § 9-500.16.

Section 905.1 entitled “**General**” is hereby amended by adding a new third sentence to read as follows:

All factory-built fireplaces shall comply with the most-current provisions of 40 CFR 60, Subpart AAA.

Section 913.1 entitled “**General**” is hereby amended by adding an exception to read as follows:

Exception: Clothes dryers installed in private garages.

INTERNATIONAL PLUMBING CODE AMENDMENTS

CHAPTER 1 SCOPE AND ADMINISTRATION

Section 101.1 entitled “**Title**” is amended to read as follows:

These regulations shall be known as the Town Plumbing Code of the Town of Chino Valley, herein known as “this code”.

Section 103.1 entitled “**General**” is hereby amended to read as follows:

The “Department of Building and Safety” shall be the enforcement agency for this code and the official in charge thereof shall be known as the building official.

Section 106.6.3 entitled “**Fee refunds**” is hereby amended to read as follows:

The Building Official is authorized to refund any fee paid hereunder, when such fee was erroneously paid or collected.

The Building Official shall be authorized to refund not more than 75 percent of the permit fee paid when the permit is withdrawn or canceled before any work has commenced. Plan check fees are nonrefundable. A written request by the applicant shall be submitted to the Building Official outlining the refund request before the refund process will begin.

SECTION 109 entitled “**MEANS OF APPEAL**” is hereby deleted in its entirety and replaced with the following:

SECTION 109 MEANS OF APPEAL

109.1 General. Appeals shall be governed by the **International Building Code, Section 113**, entitled “**Board of Appeals**” and **International Building Code, Appendix B**, each as amended by the Town of Chino Valley Building and Technical Code Amendments, 2018 Edition.

CHAPTER 2 DEFINITIONS

Section 201.4 entitled “**Terms not defined**” is hereby amended to read as follows:

201.4 Terms not defined. Where terms are not defined through the methods authorized by this section, such terms shall have ordinarily accepted meanings such as the context implies. Webster’s Third New International Dictionary of the English Language, Unabridged shall be considered as providing ordinarily accepted meanings.

Section 202 entitled “**GENERAL DEFINITIONS**” is hereby amended by modifying the definition of “Code Official” as follows:

The Code Official shall be the Building Official as defined in the International Building Code, as amended by the Town of Chino Valley Building and Technical Code Amendments, 2018 Edition.

CHAPTER 3 GENERAL REGULATIONS

Section 305.4 entitled “**Freezing**” is hereby amended to require that the minimum burial depth for water, soil and waste Pipes is 18”.

Section 305.4 .1 entitled “**Sewer depth**” is hereby amended to require that the minimum burial depth is 6” below frost line and not less than a depth of 18”.

CHAPTER 4 FIXTURES, FAUCETS AND FIXTURE FITTINGS

Table 403.1 entitled “**Minimum Number of Fixtures**” is hereby amended by adding the following footnotes:

- G. Water coolers, Goose neck spigot at a non- restroom/utility sink, or bottled water dispensers may be substituted for drinking fountains in B, M, and S occupancies with 25 or fewer occupants. Such water shall be free of charge and accessible to the public.
- H. Goose neck faucets on a lavatory or a hose bib located within a restroom may be substituted for the required utility sink in B, M, and S occupancies with 25 or fewer occupants. Hose bibs shall comply with Section 608.15.4.2 of the International Plumbing Code.
- I. Family or assisted-use toilet and bath fixtures restrooms shall consist of a minimum a 117.1-2009 compliant toilet, lavatory sink, urinal and baby changing table with accommodating accessible clearances per a 117.1- 2009

CHAPTER 6 WATER SUPPLY AND DISTRIBUTION

SECTION 603 entitled “**WATER SERVICE**” is hereby amended by adding a new **Section 603.2.1.1** entitled “**Burial Depth**” to read as follows:

603.2.1.1 Burial Depth. The water service pipe shall be buried a minimum of 18 inches below finish grade and be covered with clean backfill free of sharp rocks.

Section 606.1 entitled “**Location of full-open valves**” is hereby amended by deleting item number 2.

Section 608.16.4.2 entitled “**Hose connections**” is hereby amended by the addition of a new sentence at the end of the paragraph to read as follows:

Yard hydrants connected to the potable water system shall be “sanitary yard hydrants.”

INTERNATIONAL FUEL GAS CODE AMENDMENTS

CHAPTER 1 SCOPE AND ADMINISTRATION

Section 101.1 entitled “**Title**” is hereby amended to read as follows:

These regulations shall be known as the Town Fuel Gas Code of the Town of Chino Valley, herein known as “this code.”

SECTION 109 entitled “**MEANS OF APPEAL**” is hereby deleted in its entirety and replaced with the following:

SECTION 109 MEANS OF APPEAL

109.1 General. Appeals shall be governed by the **International Building Code, Section 113**, entitled “**Board of Appeals**” and **International Building Code, Appendix B**, each as amended by the Town of Chino Valley Building and Technical Code Amendments, 2018 Edition.

CHAPTER 2 DEFINITIONS

Section 201.4 entitled “**Terms not defined**” is hereby amended to read as follows:

Where terms are not defined through the methods authorized by this section, such terms shall have ordinarily accepted as meaning such as the context implies. **Webster’s Third New International Dictionary of the English Language, Unabridged**, shall be considered as providing ordinarily accepted meanings.

Section 202 entitled “**GENERAL DEFINITIONS**” is hereby amended by modifying the definition of “Code Official” as follows:

The Code Official shall be the Building Official as defined in the International Building Code, as amended by the Town of Chino Valley Building and Technical Code Amendments, 2018 Edition.

CHAPTER 3 GENERAL REGULATIONS

Section 303.7 entitled “**Pit Locations**” is hereby amended by adding a new sentence to the end of the paragraph to read as follows:

Liquefied petroleum gas piping shall not serve any gas-fired appliance or equipment located in a pit or basement where heavier than air gas might collect to form a flammable mixture.

Section 310.1 entitled “**Pipe and tubing other than CSST**” is hereby amended to add a new sentence to the end of the paragraph to read as follows:

Underground ferrous gas piping shall be electrically isolated from the rest of the gas system with listed or approved isolation fittings installed a minimum of six (6) inches above grade.

CHAPTER 4 GAS PIPING INSTALLATION

Section 404.5 entitled “**Fittings in concealed locations**” is hereby amended by adding a new sentence to read as follows:

Flexible gas piping **shall not** be used in exterior walls.

Section 404.12 entitled “**Minimum Burial Depth**” is hereby amended to read as follows:

Underground piping systems shall be installed a minimum depth of 18 inches below grade except as provided for in **Section 404.12.1**.

Section 406.4.1 entitled “**Test Pressure**” is hereby amended to read as follows:

The test pressure to be used shall be no less than 1 ½ times the proposed maximum working pressure, but not less than 10 psig, irrespective of design pressure. Where the test pressure exceeds 125 psig, 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 409.1.3 entitled “**Access to Shutoff Valves**” is hereby amended by adding a second sentence to read as follows:

All buildings shall be provided with a shutoff valve located at the point of entrance to the building on the downstream side of the gas meter or supply source. Multiple buildings on the same system shall have a separate shutoff valve for each building.

CHAPTER 6 SPECIFIC APPLIANCES

SECTION 602 entitled “**DECORATIVE APPLIANCE FOR INSTALLATION FIREPLACES**” is hereby amended by adding a new subsection, to read as follows:

602.4 Gas Logs. Approved gas logs installed in solid-fuel-burning fireplaces shall comply with the following:

1. The gas log shall be installed in accordance with the manufacturer’s installation instructions.
2. If the fireplace is equipped with a damper, it shall be permanently blocked open to a sufficient amount to prevent spillage of combustion products into the room.
3. The minimum flue passageway shall not be less than 1 square inch per 2,000 Btu/h input.
4. Gas logs, when equipped with a pilot shall have a listed safety shutoff valve.

CHAPTER 7 GASEOUS HYDROGEN SYSTEMS

All Interpretation and Enforcement of **Chapter 7** is hereby delegated to the **Central Arizona Fire and Medical Authority**.