

BILL NO.: 18-1151

ORDINANCE NO.: 18-

0499

INTRODUCED BY: COUNCIL MEMBER(s) Hendrickson

1 **AN ORDINANCE AMENDING TITLE V, CHAPTER 500 AND TITLE VII,**
2 **CHAPTER 705 OF THE CODE OF ORDINANCES OF JEFFERSON COUNTY,**
3 **MISSOURI, BUILDING CODE AND ON-SITE SEWAGE TREATMENT CODE**
4 **BY AMENDING TITLE V, CHAPTER 500, ARTICLE I, SECTION 500.010;**
5 **ARTICLE II, SECTION 500.390; ARTICLE IV, SECTION 500.410; ARTICLE V,**
6 **SECTION 500.420; ARTICLE VI, SECTION 500.430; ARTICLE VII, SECTION**
7 **500.440; ARTICLE VIII, SECTION 500.450; ARTICLE XI, SECTION 500.480;**
8 **AND TITLE VII, CHAPTER 705 FOR THE PURPOSE OF ADOPTING THE 2015**
9 **INTERNATIONAL BUILDING, FIRE, FUEL GAS, MECHANICAL, ENERGY**
10 **CONSERVATION, PLUMBING, AND SWIMMING POOL AND SPA CODES**
11 **AND LOCAL AMENDMENTS THERETO; AMENDING THE JEFFERSON**
12 **COUNTY ON-SITE SEWAGE TREATMENT CODE; AND PROVIDING FOR AN**
13 **EFFECTIVE DATE THEREOF.**

14 **WHEREAS**, on December 29, 2010, the Jefferson County, Missouri, Council
15 enacted Ordinance Number 10-0419 codifying the Ordinances of Jefferson County,
16 Missouri, including the Jefferson County Building Code and the Jefferson County On-Site
17 Sewage Treatment Code; and

18 **WHEREAS**, upon enactment of Ordinance Number 10-0419, the Jefferson County
19 Building Code became codified as Title V, Chapter 500 of the Code of Ordinances of
20 Jefferson County, Missouri; and

1 **WHEREAS**, upon enactment of Ordinance Number 10-0419, the Jefferson County
2 On-Site Sewage Treatment Code became codified as Title VII, Chapter 705 of the Code of
3 Ordinances of Jefferson County, Missouri; and

4 **WHEREAS**, pursuant to Article VI, Section 6.3.1.3., of the Home Rule Charter of
5 Jefferson County, the Code Commission “must review all Building Codes and related
6 Ordinances adopted by the County Council and propose to the County Council for adoption
7 by Ordinance any modification, or repeal, of those Building Codes and Ordinances that the
8 Code Commission determines is necessary or appropriate”; and

9 **WHEREAS**, amendments have been prepared to Title V, Chapter 500, Article I,
10 Section 500.010; Article II, Section 500.390; Article IV, Section 500.410; Article V,
11 Section 500.420; Article VI, Section 500.430; Article VII, Section 500.440; Article VIII,
12 Section 500.450; Article XI, Section 500.480; and Title VII, Chapter 705 of the Code of
13 Ordinances of Jefferson County, Missouri Building Code and On-Site Sewage Treatment
14 Code for the purpose of adopting the 2015 International Building, Fire, Fuel Gas,
15 Mechanical, Energy Conservation, Plumbing, and Swimming Pool and Spa Codes and
16 local amendments thereto; and

17 **WHEREAS**, the Code Commission by various resolutions submitted proposed
18 amendments of the Building Code to the Jefferson County, Missouri, Council for adoption;
19 and

20 **WHEREAS**, the Jefferson County, Missouri, Council held three public hearings
21 on October 22, 2018; November 13, 2018; and November 26, 2018 regarding the
22 amendments to the Building Code, notice of which was given fifteen days in advance and

1 published in at least two newspapers having general circulation within the County all in
2 accordance with Section 64.180 RSMo; and

3 **WHEREAS**, the Jefferson County, Missouri, Council for the purpose of promoting
4 public health, safety, and general welfare, and to protect life and property, finds it is in the
5 best interest of the County to adopt the amendments to the Jefferson County Building Code.

6 **BE IT ENACTED BY THE JEFFERSON COUNTY, MISSOURI, COUNCIL,**
7 **AS FOLLOWS:**

8 Section 1. Title V, Chapter 500, Article I, Section 500.010; Article II, Section
9 500.390; Article IV, Section 500.410; Article V, Section 500.420; Article VI, Section
10 500.430; Article VII, Section 500.440; Article VIII, Section 500.450; Article XI, Section
11 500.480; And Title VII, Chapter 705 of the Code of Ordinances of Jefferson County,
12 Missouri, Building Code and Jefferson County On-Site Sewage Treatment Code are hereby
13 amended as shown in Exhibit A.

14 Section 2. This Ordinance shall be in full force and effect thirty (30) days after
15 it is published in full in a legal publication in the County and posted in a public place in
16 each Council District and on a County sponsored web page on the Internet in electronic
17 form.

18 Section 3. The Code of Ordinances of Jefferson County shall be amended to
19 reflect passage of this Ordinance. If any part of this Ordinance is invalid for any reason,
20 such invalidity shall not affect the remainder of this Ordinance.

**THIS BILL BEING DULY INTRODUCED, THE MEMBERS OF THE
JEFFERSON COUNTY, MISSOURI, COUNCIL VOTED AS FOLLOWS:**

Council Member District 1, Don Bickowski	<u>yes</u>
Council Member District 2, Renee Reuter	<u>yes</u>
Council Member District 3, Phil Hendrickson	<u>yes</u>
Council Member District 4, Charles Groeteke	<u>yes</u>
Council Member District 5, Daniel Darian	<u>absent</u>
Council Member District 6, Daniel Stallman	<u>yes</u>
Council Member District 7, James Terry	<u>yes</u>

THE ABOVE BILL ON THIS 10th DAY OF December, 2018:

PASSED **FAILED**

Don Bickowski
Don Bickowski, County Council Chair

Pat Schlette
Pat Schlette, Council Executive Assistant

THIS BILL WAS ✓ APPROVED BY THE JEFFERSON COUNTY EXECUTIVE AND EXACTED AS AN ORDINANCE OF JEFFERSON COUNTY, MISSOURI, THIS 11TH DAY OF DECEMBER, 2018.

THIS BILL WAS VETOED AND RETURNED TO THE JEFFERSON COUNTY, MISSOURI, COUNCIL WITH WRITTEN OBJECTIONS BY THE JEFFERSON COUNTY EXECUTIVE, THIS DAY OF , 2018.

Kenneth B. Waller

Kenneth B. Waller, Jefferson County, Missouri, Executive

ATTEST:

Randy B. Holman

Randy B. Holman, County Clerk

By *Katherine E. Missey*

Deputy Clerk

First Reading: 11-26-2018

Second Reading: 12-10-2018

Third Reading: 12-10-2018

Chapter 500. Jefferson County Building Code.

Section 500.010. Adoption of Technical Codes.

A. It is hereby found and determined that adoption of nationally recognized standard codes is necessary for the promotion of the public health, safety and welfare of Jefferson County, Missouri. Accordingly, the following technical codes, one (1) copy of which is on file in the Department of the County Clerk, are adopted and incorporated in this Article by reference as if fully set forth, except as they may be amended by other provisions of this Chapter:

1. International Building Code ~~2009~~2015.
2. International Residential Building Code 2015.
3. International Fire Code ~~2009~~2015.
4. International Fuel Gas Code ~~2009~~2015.
5. International Mechanical Code ~~2009~~2015.
6. International Energy Conservation Code ~~2009~~2015.
7. International Plumbing Code ~~2009~~2015.
8. National Electrical Code 2014/Jefferson County Electrical Code 2017.
9. ~~International Existing Building Code 2009~~ International Swimming Pool and Spa Code 2015.

ARTICLE II

International Building Code ~~2009~~2015 – Amendments

Delete Existing Section 500.390 in its entirety and insert in lieu thereof the following:

Section 500.390. Additions, Insertions, Deletions, and Changes.

The International Building Code, 2015 Edition, is hereby amended as follows:

101.1. Delete and insert in lieu thereof the following: Title. These regulations shall be known as the Building Code of Jefferson County, Missouri, hereinafter referred to as “this code”.

101.4.3. Delete and insert in lieu thereof the following: The provisions of the International Plumbing Code shall apply to the installation, alteration, repair and replacement of plumbing systems, including equipment, appliances, fixtures, fittings and appurtenances, and where connected to a water of sewage systems and all aspects of a medical gas system. The provisions of the Jefferson County On-Site Sewage Treatment Code shall apply to private sewage disposal systems.

101.4.4. Delete entire section.

101.4.7. Delete entire section.

103.1. Delete entire section.

104. Duties and Powers of Building Official is amended wherever these words are found by deleting “Building Official” and substituting “Code Official”.

104.10.1. Delete and insert in lieu thereof the following: The Code Official shall not grant modifications to any provision required in flood hazard areas except as set forth in the Jefferson County, Missouri Flood Damage Prevention Ordinance.

105.2. Delete and insert in lieu thereof the following: Work Exempt from Permit. Exemption from permit requirements of this code shall not be deemed to grant authorization for any work to be done in any manner in violation of the provisions of this code or any other laws or ordinances of Jefferson County, Missouri. Permits shall not be required for the following:

Building:

1. One-story detached accessory structures, provided that the floor area does not exceed 200 square feet.
2. Fences not over 8 feet (2,438 mm) high.
3. Retaining walls that are not over 6 feet in height measured from the finished grade to the top of the wall, excluding the cap, unless supporting a surcharge.
4. Water tanks supported directly upon grade if the capacity does not exceed 5,000 gallons (18,927 L) and the ratio of height to diameter or width does not exceed 2 to 1.
5. Sidewalks, driveways, patios and door landing pads.
6. Painting, papering, tiling, carpeting, cabinets, counter tops, replacement of flooring, trim, finish and similar finish work.
7. Prefabricated swimming pools that are less than 24 inches (610 mm) deep.
8. Swings and other playground equipment.
9. Window awnings supported by an exterior wall that do not project more than 54 inches (1372 mm) from the exterior wall and do not require additional support.
10. Decks not exceeding 200 square feet in area, that are not more than 30 inches (762 mm) above grade at any point, are not attached to a dwelling do not serve the exit door required by Section R311.4.
11. Single family residential roof replacement, replacement roofing that involves the shingles, the underlayment and/or the sheathed decks.
12. Replacement of siding.
13. Replacement of doors and/or windows provided opening sized and operation do not change.
14. Residential kitchen appliance replacement.
15. Water heater replacement.
16. Garage door and opener replacement.

Electrical:

Repairs and maintenance: Minor repair work, including the replacement of lamps or the connection of approved portable electrical equipment to approved permanently installed receptacles.

Radio and television transmitting stations: The provisions of this code shall not apply to electrical equipment used for radio and television transmissions, but do apply to equipment and wiring for a power supply and the installations of towers and antennas.

Temporary testing systems: A permit shall not be required for the installation of any temporary system required for the testing or servicing of electrical equipment or apparatus.

Gas:

1. Portable heating, cooking or clothes drying appliances.
2. Replacement of any minor part that does not alter approval of equipment or make such equipment unsafe.
3. Portable-fuel-cell appliances that are not connected to a fixed piping system and are not interconnected to a power grid.

Mechanical:

1. Portable heating appliances.
2. Portable ventilation appliances.
3. Portable cooling units.
4. Steam, hot- or chilled-water piping within any heating or cooling equipment regulated by this code.
5. Replacement of any minor part that does not alter approval of equipment or make such equipment unsafe.
6. Portable evaporative coolers.
7. ~~Self-contained refrigeration systems containing 10 pounds (4.54 kg) or less of refrigerant or that are actuated by motors of 1 horsepower (746 W) or less.~~
8. Portable-fuel-cell appliances that are not connected to a fixed piping system and are not interconnected to a power grid.

Plumbing:

1. The stopping of leaks in drains, water, soil, waste or vent pipe.
2. The clearing of stoppages or the repairing of leaks in pipes, valves or fixtures, and the removal and reinstallation of existing fixtures.

109.2. Delete entire section. (Refer to Jefferson County Building Code Sections 500.065 and 500.250).

109.3. Delete entire section. (Refer to Jefferson County Building Code Section 500.250).

109.4. Delete entire section. (Refer to Jefferson County Building Code Section 500.300).

109.6. Delete entire section. (Refer to Jefferson County Building Code Section 500.260).

110.3.5. Delete and insert in lieu thereof the following: Lath, gypsum board and gypsum panel product inspection. Lath, gypsum board and gypsum panel product inspections may be made after lathing, gypsum board and gypsum products, interior and exterior, are in place, but before any plastering is applied or gypsum board and gypsum panel product joints and fasteners are taped and finished.

Exception: Gypsum board and gypsum panel products that are not part of a fire-resistance-rated assembly or a shear assembly.

112. Delete entire section. (Refer to Jefferson County Building Code Section 500.270).

113. Delete entire section. (Refer to Jefferson County Building Code Sections 500.280 and 500.290).

114. Delete entire section. (Refer to Jefferson County Building Code Section 500.300).

115. Delete entire section. (Refer to Jefferson County Building Code Section 500.310).

116. Delete entire section. (Refer to Jefferson County Building Code Sections 500.320 and 500.340).

202. Delete "STRUCTURAL OBSERVATION" and insert in lieu thereof the following: STRUCTURAL OBSERVATION. The visual observation of the structural system by a registered design professional for general conformance to the approved construction documents at significant construction stages and at completion of the structural system. Upon request by the registered design professional, the Code Official may permit structural observation to substitute for some special inspections required by Sections 110, 1704 or other Sections of this Code. Such permission must be in writing and will qualify as an interpretation of this Code under Sections 104 and 112.

305.2. Delete and insert in lieu thereof the following: Group E, day care facilities. This group includes buildings and structures or portions thereof occupied by more than 10 children older than 2 ½ years of age who receive educational, supervision or personal care services for fewer than 24 hours a day.

423.1. Delete and insert in lieu thereof the following: General. In addition to other applicable requirements in this code, storm shelters shall be constructed in accordance with ICC-500, where economically feasible.

406.3.4.1. Delete and insert in lieu thereof the following: Dwelling unit separation. The private garage shall be separated from the dwelling unit and its attic area by means of gypsum board, no less than 3/8 inch in thickness, applied to the garage side. Garages beneath habitable rooms shall be separated from all habitable rooms above by not less than a 5/8 inch Type X gypsum board or equivalent and ½-inch gypsum board applied to structures supporting the separation from habitable rooms above the garage. Door openings between a private garage and the dwelling unit shall be equipped with either solid wood doors or solid or honeycomb core steel doors not less than 1 ¾ inches in thickness, or doors in compliance with Section 716.5.3 with a fire protection rating of not less than 20 minutes.

903.2.1.2. Delete and insert in lieu thereof the following: Group A-2. An automatic sprinkler system shall be provided for fire areas containing Group A-2 occupancies and intervening floors of the building where one of the following conditions exists:

1. The fire area exceeds 5,000 square feet.
2. The fire area has an occupant load of 300 or more.
3. The fire area is located on a floor other than a level of exit discharge serving such occupancies.

1104.5. Insert the following new exception:

3. Accessible routes are allowed to pass through a kitchen or storage room in food services facilities that have no interior or exterior customer seating, and are required by their design occupant load to have only one (1) toilet room.

1704.2. Insert the following new exception:

5. The registered design professional may request that the Code Official waive the requirement for certain special inspections when it is determined that such inspections are inappropriate for the structure being constructed. The waiver must be included in the special inspection agreement document and will qualify as an interpretation of this Code under Sections 104 and 112.

1807.2.1. Delete and insert in lieu thereof the following: Retaining walls requiring permits shall be designed by an engineer to ensure stability against overturning, sliding, excessive foundation pressure and water uplift. Retaining walls shall be designed for a safety factor of 1.5 against lateral sliding and overturning.

Exception: Poured concrete and wood crafted retaining walls not exceeding six feet in height shall not require engineering but shall meet all other design requirements. Pre-manufactured block retaining systems of a modular nature shall follow manufacturer's specifications. Modular retaining wall systems over six feet in height shall require engineered design supervision. Retaining walls of wood construction shall be preservative treated in accordance with Chapter 23 of this Code.

1901.7. Insert the following new section: Cold weather requirements. Concrete to be placed during freezing or near-freezing weather shall comply with the following:

1. Adequate equipment shall be provided for heating concrete materials and protecting concrete during freezing or near-freezing weather;
2. Concrete materials and reinforcement, forms, fillers and ground with which concrete is to come in contact shall be free from frost;
3. Frozen materials or materials containing ice shall not be used;
4. Placement of concrete shall not occur when temperatures fall below 28 degrees.

2902.1. Delete and insert in lieu thereof the following: Minimum number of fixtures. Plumbing fixtures shall be provided in the minimum number as shown in Table 2902.1 based on the actual use of the building or space. Uses not shown in Table 2902.1 shall be considered individually by the Code Official. The number of occupants shall be determined by this code. Temporary permits as permitted by Section 108 of this code shall comply with ANSI Z4.3, for Non-Sewered Waste-Disposal Systems.

ARTICLE IV

International Fire Code ~~2009-2015~~ – Amendments

Delete Existing Section 500.410 in its entirety and insert in lieu thereof the following:

Section 500.410. Additions, Insertions, Deletions, and Changes.

The International Fire Code, 2015 Edition, is hereby amended as follows:

101.1. Delete and insert in lieu thereof the following: Title. These regulations shall be known as the Fire Code of Jefferson County, Missouri, hereinafter referred to as “this code”.

101.2.1. Delete and insert in lieu thereof the following: Appendices. Provisions in the appendices shall not apply unless specifically adopted. The only Appendix specifically adopted by this code shall be Appendix B.

103. Department of Fire Prevention. Section 103 shall be amended by deleting the words “fire code official” wherever it appears and replaced by the words “code official”.

105. Delete entire section. (Refer to Jefferson County Building Code Sections 500.065 and 500.250).

108. Delete entire section. (Refer to Jefferson County Building Code Section 500.280).

109. Delete entire section. (Refer to Jefferson County Building Code Section 500.300).

110. Delete entire section. (Refer to Jefferson County Building Code Section 500.320).

111. Delete entire section. (Refer to Jefferson County Building Code Section 500.310).

903.2.1.2. Delete and insert in lieu thereof the following: Group A-2. An automatic sprinkler system shall be provided for fire areas containing Group A-2 occupancies and intervening floors of the building where one of the following conditions exists:

1. The fire area exceeds 5,000 square feet (463 m²).
2. The fire area has an occupant load of 300 or more.

3. The fire area is located on a floor other than a level of exit discharge serving such occupancies.

5601.1. Delete and insert in lieu thereof the following: Scope. The provisions of this Chapter shall govern the possession, storage, handling and use of explosives and explosive materials used in any activity related to the development, construction or erection of detached single-family or two-family dwellings, and the alteration, enlargement, replacement or repair of detached single-family or two-family dwellings in unincorporated Jefferson County. In addition, the provisions shall apply to the construction or erection of new commercial buildings and the alteration, enlargement, replacement or repair of commercial buildings in unincorporated Jefferson County when the commercial structures are part of a mixed-use development that is being constructed under a single development permit.

5601.1.3. Delete entire section.

5601.1.4. Delete entire section.

5601.2. Delete and insert in lieu thereof the following: Permits shall be required and regulated in accordance with this Section. Application for such permit to use, possess, store, stock, use or hold explosives, except those items not prohibited in 5601.3, shall contain the following information:

1. Name of the applicant;
2. Address of the applicant;
3. Place and name of the business;
4. Name of the responsible person;
5. U.S. Department of Justice Bureau of Alcohol, Tobacco, Firearms and Explosives Certification Number; State of Missouri license number under the provisions of RSMO Section 319.306;
6. Location of the blasting site;
7. Name and address of the insurance company;
8. If the application is for storage, the amount of each kind of explosives, blasting agents or blasting caps the applicant intends to stock or store at any one time and the location and type of magazines and the proposed placement of the magazines;
9. Emergency contact numbers for both day and night;
10. Type of blasting agents;
11. Distance to closest structure;
12. A pre-blast survey or evidence three documented attempts were made to contact the owner of any uncontrolled structures within a scaled distance of 35 feet from the blast site, in accordance with RSMO Section 319.342 (7).
13. Name of the competent operator as provided in Section 5607.1, if different from #4.
14. The name, address and telephone number of the fire district and the ambulance district serving the blast site.
15. Signage plan.

The Code Official may issue a permit for a period of 90 days to store, stack or use explosives or blasting agents in the unincorporated portions of Jefferson County upon:

1. Receipt of an application form as prescribed above;
2. Receipt of all applicable permits from other local, state or federal departments or agencies;
3. The receipt and placement of the proper type of facilities to store explosives as required by this Code.

The Code Enforcement Division will notify the Jefferson County Sheriff's Department, the applicable fire district and ambulance district when a permit is issued for blasting and/or the storage of explosive material.

5601.2.4. Delete and insert in lieu thereof the following: Before a permit is issued, as required by Section 5601.2, the applicant shall file with the County a certificate of liability insurance policy for an amount not less than one million dollars (\$1,000,000.00) for the purpose of paying damages to persons or property which may arise from, or are caused by the conduct of any act authorized by the permit upon which a judicial judgment may result.

5602.1. Insert the following additional terms:

AIRBLAST ACOUSTIC VALUES: An airborne shock wave resulting from detonation of explosives. Burden movement or the release of expanding gas into the air may have acoustic values cause airblast. An airblast may or may not be audible.

BLASTING: Any activity entailing the use of explosives for the purpose of producing an explosion to fragment rock related to excavation or construction.

BLASTING OPERATIONS: Drilling and site preparation for blasting and the detonation itself.

CODE OFFICIAL: The Director of the Department of County Services and Code Enforcement for Jefferson County or any person authorized by the Director to act as the Code Official in the Director's stead.

CONTROLLED STRUCTURE: Any structure that is owned or leased by the person using explosives, or otherwise under the direct contractual responsibility of the person using explosives or controlled by the permit holder.

DECIBEL (dB): The unit of sound pressure commonly used to measure airblast from explosives.

FLYROCK: Rock that is propelled through the air or along the ground as a result of the detonation of explosives.

SCALED DISTANCE: The actual distance (in feet) to the nearest structure, divided by the square root of the maximum explosive weight (in pounds) per eight-millisecond (or greater) delay. If delay intervals less than eight (8) milliseconds are employed or if instantaneous blasting is employed, scaled distance shall be computed by dividing the actual distance (in feet) by the square root of the total explosive weight in pounds.

SCHOOL ZONE: An area, to be defined by the Code Official, around the structures or property of a school where children may be present during blasting or for which the Code Official determines there is a possibility of injury if blasting occurs while school activities are taking place.

UNCONTROLLED STRUCTURE: Any dwelling, public building, school, church, commercial building or institutional building that is not owned or leased controlled by the permit holder person using explosives, or otherwise under the direct contractual responsibility of the person using explosives.

5603.2. Delete and insert in lieu thereof the following: Transaction Record. The permittee shall maintain a record of all transactions involving receipt, removal, use or disposal of explosive materials. Such record shall be maintained for a period of 3 years following the blasting event, receipt of an occupancy permit or other certification by Jefferson County that the construction is complete.

5603.8. Insert the following new section: Blasting Records. A blasting records and driller's log shall be kept on the site of any blasting operations. These records shall be made available to the authorized representative of Jefferson County on demand. These records shall be maintained available for inspection for a period of one (1) year after such blasting operations are completed. The records to be maintained shall conform to RSMO 319.315.1 and 319.315.2.

Blast Data:

1. Date and time of the blast;
2. Exact blast location (GPS coordinates, or other suitable method);
3. Number of holes;
4. Spacing and burden;
5. Hole diameter;
6. Types and weight of explosives used;
7. Total weight of explosives used;
8. Maximum number of holes detonated within any 8-millisecond period;
9. Type and length of stemming;
10. Sketch of delay pattern;
11. Scaled distance to nearest uncontrolled structure;
12. Name of organization conducting the blasting operation;
13. Name of the person in charge of the blast.

Seismic Data:

1. Type of seismograph employed;
2. Certification date of annual calibration;
3. Exact recording location (GPS coordinates or other suitable method);
4. Distance and direction of blast;

5. Trigger level setting or sensitivity;
6. Maximum peak particle velocity recorded (in inches per second);
7. Maximum peak air overpressure level recorded (in decibels);
8. Scaled distance.

5603.9. Insert the following new section: Falsifications. The falsification, alteration or misrepresentation of any record of blasting operations will be cause for suspension or revocation of the blasting permit. The suspension or revocation of a permit shall not be in lieu of any other provisions for enforcement of the Jefferson County Building Codes.

5603.10. Insert the following new section: Permits For Use. Any permission to use explosives and blasting agents that is expressed or implied with the issuance of a permit shall expire at the end of thirty (90) days. Further blasting activities will require the issuance of a new permit. Quarry permits shall be issued on an annual basis as set forth in Section 5707.18. Permits issued pursuant to this Code are not transferable to another site or another operator.

5603.11. Insert the following new section: Fees and Inspections. Fees for blasting permits shall be paid at the time of application, and no permit shall be issued until the required fee is paid in full. Fees shall be as follows:

1. Construction and jobsite blasting:
 - Permit Fee - \$300.00
 - Inspection Fee - \$40.00
2. Quarries and mines
 - Annual Permit Fee - \$1,200.00
 - Inspection Fee - \$40.00

Any permit issued pursuant to this Code shall be good for an unlimited number of blasts within the permit period. The first blast conducted pursuant to the issuance of a permit must be inspected and witnessed by the Code Enforcement Division. The blaster in charge shall be present at the time of the first blast. Additional blasts shall be performed in accordance with this Code and any other applicable federal, state, or local requirements. Any site for which a blasting permit has been issued shall be subject to periodic and random inspections by the Code Enforcement Division.

5603.12. Insert the following new section: Suspensions. The Code Official may suspend any permit issued hereunder upon finding a violation of any provision of this code.

5604.11. Insert the following new section: Delivery. No more than one vehicle delivering explosives shall be on the project site at any time. Explosives shall be unloaded in a place that is separated from the loading and blasting operations by a man-made or natural barricade as defined by the 2015 International Fire Code.

5604.12. Insert the following new section: Caps. Blasting caps that are brought to the loading area shall be detached from detonating fuses. Blasting caps shall not be attached to the detonating fuses until the caps and fuses are ready for use.

5605. Delete entire section.

5606. Delete entire section.

5607.1.1. Insert the following new section: Signage. The applicant will submit a plan for signage and other means of informing the public of blasting in proximity to public streets or highways and any request for temporary closing of streets or re-routing traffic. The Code Enforcement Division must approve the signage plan prior to issuance of a permit.

5607.3. Delete and insert in lieu thereof the following: Blasting in congested areas. When blasting is performed in a congested area or in close proximity to a structure, railway, highway, or any other installations, the blaster shall ensure that suitable precautions are instituted and observed to minimize earth vibrations and airblast potential damage. The Code Official may require the use of blasting mats or other forms of protective cover when blasting operations or geological conditions may cause flyrock or other debris that could damage or injure persons or property.

5607.3.1. Insert the following new section: Feet to a roadway. When blasting is to occur within three hundred fifty (350) feet of a roadway (measured from a point of explosion) or when otherwise required by the Code Official, no vehicular or pedestrian traffic shall be allowed on the affected roadway until after the blasting operation is completed. It shall be the responsibility of the blaster to arrange for suitable traffic control.

5607.3.2. Insert the following new section: Sounding a horn. Two (2) minutes prior to each blast or at such other time as the Code Official may require, a horn shall be sounded for at least thirty (30) seconds. The horn or horns shall be audible at least one thousand (1,000) feet or such further distance as the Code Official may require. The sound of the horn must be distinctive from the sound of other horns in the area.

5607.4. Delete and insert in lieu thereof the following: Restricted Hours. It shall be unlawful for any person to explode or cause to be exploded any gunpowder, dynamite, giant powder, cotton gun or other explosives as herein defined for any purpose during the following times:

1. From 5:00 PM to 8:30 AM Any time other than the eight (8) hour period designated in the permit;
2. At any time blasting occurs in a school zone while school activities are taking place;
3. On Saturday, Sunday or a state holiday.

However, the Code Official may issue special permits to conduct blasting in the restricted times when the Code Official determines that conditions warrant the issuance of such permission.

5607.16. Insert the following new section: Airblast Acoustical Values and Ground Vibrations.

Acoustical values and ground vibrations shall be recorded and limited as specified in RSMO 319.312. Airblast shall be controlled so that it does not exceed the maximum limits specified below when measured at any uncontrolled structure. All measuring systems used shall have a flat frequency response of at least 200 Hz at the upper end.

5607.17. Insert the following new section: Ground Vibrations. In all blasting operations, except as otherwise provided herein, the maximum peak particle velocity of any one of three mutually perpendicular components of the ground motion in the vertical and horizontal directions shall not exceed two (2) inches per second. The Code Official may, at his discretion, require less than two (2) inches per second at the nearest uncontrolled structure or at additional locations as circumstances dictate.

5607.17.1. Insert the following new section: Instrumentation. Seismographs shall be required to be in good operating condition and be properly calibrated with current (within one [1] year of date of use) calibration, and the acknowledgment of current calibration shall be indicated by a sticker affixed to each instrument. If any instrument is found to be operating improperly or out of calibration, blasting operations shall be halted until the appropriate repairs or re-calibration are performed or a proper instrument is provided. Seismograph operators shall be trained in the use of the instrument they are using.

5607.17.2. Insert the following new section: Seismographs. Seismographs shall be placed between the blast site and uncontrolled structures that are in the blast area at a location near the structures, and at such additional locations as are required by the Code Official.

5607.17.3. Insert the following new section: Daily Reading. The Code Official may require a written report of the daily seismograph readings.

5607.17.4. Insert the following new section: Pre-blast Survey. All owners of property with structures thereon that are within a scaled distance of fifty (50) from a blasting site shall be notified by certified mail that blasting operations will be taking place in the area of their property. Said property owners will be offered a pre-blast survey of the structures to be performed at the blaster's expense. A list of the structures surveyed must be made available to the Code Official at the time of the permit application. Approval can be granted for operations without a pre-blast survey when written evidence is supplied that a property owner declined the pre-blast survey, or that a good faith effort was made to secure permission for a survey.

5607.18. Insert the following new section: Quarries. Quarries shall be issued annual permits. The application shall contain the same information as specified in Subsection 5601.2 and shall be subject to all other conditions of this Code. Quarry permits shall be renewed on an annual basis upon the filing of an updated application by the quarry operator. Notices for quarry permit renewals shall be mailed in January of the calendar year and shall be submitted by the quarry applicant with all applicable fees no later than February 15. Quarry permits issued pursuant to this Code shall be good for an unlimited number of blasts within the permit period. The first blast conducted pursuant to the issuance of a permit or permit renewal must be inspected and witnessed by the Code Enforcement Division. The blaster in charge shall be present at the time of the first blast. Additional blasts shall be performed in accordance with this Code and any other applicable federal, state, or local requirements. Any site for which a blasting permit has been issued shall be subject to periodic and random inspections by the Code Enforcement Division.

ARTICLE V

International Fuel Gas Code ~~2009~~2015 – Amendments

Delete Existing Section 500.420 in its entirety and insert in lieu thereof the following:

Section 500.420. Additions, Insertions, Deletions, and Changes.

The International Fuel Gas Code, 2015 Edition, is hereby amended as follows:

101.1. Delete and insert in lieu thereof the following: Title. These regulations shall be known as the Fuel Gas Code of Jefferson County, Missouri, hereinafter referred to as “this code”.

106.6.2. Delete entire section. (Refer to Jefferson County Building Code Section 500.250).

106.6.3. Delete entire section. (Refer to Jefferson County Building Code Section 500.260).

108. Delete entire section. (Refer to Jefferson County Building Code Section 500.300).

109. Delete entire section. (Refer to Jefferson County Building Code Section 500.280).

305.7. Delete and insert in lieu thereof the following: Clearances from grade. Equipment and appliances installed at grade level shall be supported on a level concrete slab or other approved material extending not less than 2 inches (50.8 mm) above adjoining grade or shall be suspended not less than 6 inches (152 mm) above adjoining grade. Such supports shall be installed in accordance with the manufacturer’s installation instructions.

308.1. Delete and insert in lieu thereof the following: Scope. This section shall govern the reduction in required clearances to combustible materials, and combustible assemblies for chimneys, vents, appliances, devices and equipment. Clearance requirements for air-conditioning equipment and central heating boilers and furnaces shall comply with Sections G2409.3 and G2409.4.

309.2. Delete and insert in lieu thereof the following: Connections. Electrical connections between appliances and the building wiring, including the grounding of the appliances, shall conform to the National Electrical Code 2014/Jefferson County Electrical Code 2017.

401.9. Delete entire section.

401.10. Delete entire section.

404.3. Delete and insert in lieu thereof the following: Prohibited locations. Piping shall not be installed in or through a ducted supply, return or exhaust, or a clothes chute, chimney or gas vent, dumbwaiter or elevator shaft.

618.4. Delete and insert in lieu thereof the following: Prohibited sources. Outdoor or return air for forced-air heating and cooling systems shall not be taken from the following locations:

1. ~~Closer than 10 feet (3048 mm) from an appliance vent outlet, a vent opening from a plumbing drainage system or the discharge outlet of an exhaust fan, unless the outlet is 3 feet (914 mm) above the outside air inlet.~~
2. Where there is the presence of objectionable odors, fumes or flammable vapors; or where located less than 10 feet (3048 mm) above the surface of any abutting public way or driveway; or where located at grade level by a sidewalk, street, alley or driveway.
3. A hazardous or insanitary location or a refrigeration machinery room as identified in the International Mechanical Code.
4. A room or space, the volume of which is less than 25 percent of the entire volume served by such system. Where connected by a permanent opening having an area sized in accordance with Section G2442.2, adjoining rooms or spaces shall be considered as a single room or space for the purpose of determining the volume of such rooms or spaces.
Exception: The minimum volume requirement shall not apply where the amount of return air taken from a room or space is less than or equal to the amount of supply air delivered to such room or space.
5. A room or space containing an appliance where such a room or space serves as the sole source of return air.
Exception: This shall not apply where:
 1. The appliance is a direct-vent appliance or an appliance not requiring a vent in accordance with Section G2425.8.
 2. The room or space complies with the following requirements:
 - 2.1. The return air shall be taken from a room or space having a volume exceeding 1 cubic foot for each 10 Btu/h (9.6L/W) of combined input rating of all fuel-burning appliances therein.
 - 2.2. The volume of supply air discharged back into the same space shall be approximately equal to the volume of return air taken from the space.
 - 2.3. Return-air inlets shall not be located within 10 feet (3048 mm) of a draft hood in the same room or space or the combustion chamber of any atmospheric burner appliance in the same room or space.
 3. Rooms or spaces containing solid fuel-burning appliances, provided that return-air inlets are located not less than 10 feet (3048 mm) from the firebox of such appliances.
6. A closet, bathroom, toilet room, kitchen, garage, boiler room, furnace room or unconditioned attic.
Exceptions:
 1. Where return air intakes are located not less than 10 feet (3048 mm) from cooking appliances and serve only the kitchen area, taking return air from a kitchen area shall not be prohibited.
 2. Dedicated forced air systems serving only a garage shall not be prohibited from obtaining return air from the garage
 3. Where a closet is provided with a supply register, taking return air from the closet shall not be prohibited.
7. A crawl space by means of direct connection to the return side of a forced-air system. Transfer openings in the crawl space enclosure shall not be prohibited.

ARTICLE VI

International Mechanical Code ~~2009~~2015 - Amendments

Delete Existing Section 500.430 in its entirety and insert in lieu thereof the following:

Section 500.430. Additions, Insertions, Deletions, and Changes.

The International Mechanical Code, 2015 Edition, is hereby amended as follows:

101.1. Delete and insert in lieu thereof the following: Title. These regulations shall be known as the Mechanical Code of Jefferson County, Missouri, hereinafter referred to as “this code”.

102.5. Delete entire section.

106.3.1. Delete and insert in lieu thereof the following: Construction documents. Construction documents, engineering calculations, diagrams and other data shall be submitted in two or more sets with each application for a permit. The code official shall require construction documents, computations and specifications to be prepared and designed by a registered design professional. Where special conditions exist, the code official is authorized to require additional construction documents to be prepared by a registered design professional. Construction documents shall be drawn to scale and shall be of sufficient clarity to indicate the locations, nature and extent of the work proposed and show in detail that the work conforms to the provisions of this code. Construction documents for buildings more than two stories in height shall indicate where penetrations will be made for mechanical systems, and the materials and methods for maintaining required structural safety, fire resistance rating and fireblocking.

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

106.5.2. Delete entire section. (Refer to Jefferson County Building Code Section 500.250).

106.5.3. Delete entire section. (Refer to Jefferson County Building Code Section 500.260).

108. Delete entire section. (Refer to Jefferson County Building Code Section 500.300).

109. Delete entire section. (Refer to Jefferson County Building Code Section 500.280).

301.3. Delete entire section.

301.4. Delete entire section.

301.5. Delete entire section.

304.10. Delete and insert in lieu thereof the following: Ground clearance. Equipment and appliances supported from the ground shall be level and firmly supported on a concrete slab or other approved material extending not less than 2 inches (50.8 mm) above the adjoining ground. Such support shall be in accordance with the manufacturer’s installation instructions. Appliances suspended from the floor shall have a clearance of not less than 6 inches (152 mm) from the ground.

306.4.1. Delete and insert in lieu thereof the following: Electrical requirements. A luminaire controlled by a switch located at the required passageway opening and a receptacle outlet shall be installed at or near the appliance location in accordance with Chapter 39. Exposed lamps shall be protected from damage by location or lamp guards.

Exception: Basements

307.2.3. Delete and insert in lieu thereof the following: Auxiliary and secondary drain systems. In addition to the requirements of Section M1411.3, a secondary drain or auxiliary drain pan shall be required for each cooling or evaporator coil where damage to any building components will occur as a result of overflow from the equipment drain pan or stoppage in the condensate drain piping. Such piping shall maintain a minimum horizontal slope in the direction of discharge or not less than 1/8-unit vertical in 12 units' horizontal (1-percent slope). Drain piping shall be not less than 3/4-inch (19 mm) nominal pipe size. One of the following methods shall be used:

1. An auxiliary drain pan with a separate drain shall be installed under the coils on which condensation will occur. The auxiliary pan drain shall discharge to a conspicuous point of disposal to alert occupants in the event of a stoppage of the primary drain. The pan shall have a minimum depth of 1.5 inches (38 mm), shall be not less than 3 inches (76 mm) larger than the unit or the coil dimensions in width and length and shall be constructed of corrosion-resistant material. Galvanized sheet steel pans shall have a minimum thickness of not less than (No. 26 Gage). Nonmetallic pans shall have a minimum thickness of not less than 0.0625 inch (1.6 mm).

501.3.2. Delete and insert in lieu thereof the following: Outdoor discharge. The air removed by every mechanical exhaust system shall be discharged to the outdoors in accordance with Section M1506.2. Air shall not be exhausted into an attic, soffit, ridge vent or crawl space.

Exceptions:

1. Whole-house ventilation-type attic fans that discharge into the attic space of dwelling units having private attics shall be permitted.
2. Bathroom exhaust may discharge to an attic gable vent or ventilated soffit.

504.8.2. Delete and insert in lieu thereof the following: Duct installation. Exhaust ducts shall be supported at intervals not to exceed 12 feet (3658 mm) and shall be secured in place. The insert end of the duct shall extend into the adjoining duct or fitting in the direction of airflow. Exhaust duct joints shall be sealed in accordance with Section M1601.4.1.

504.8.4.1. Delete and insert in lieu thereof the following: Specified length. The maximum length of the exhaust duct shall be 35 feet (10 688 mm) from the connection to the transition duct from the dryer to the outlet terminal. Where fittings are used, the maximum length of the exhaust duct shall be reduced in accordance with Table M1502.4.5.1. The maximum length of the exhaust duct does not include the transition duct.

Exception: The maximum developed length may be extended to 55 feet if clearly labeled cleanouts are provided within 12 inches of the second elbow, at every elbow thereafter, and at least every 15 feet of developed length thereafter.

505.2. Delete and insert in lieu thereof the following: Makeup air required. Exhaust hood systems capable of exhausting in excess of 600 cubic feet per minute shall be mechanically or naturally provided with makeup air at a rate approximately equal to the exhaust air rate. Such makeup air systems shall be equipped with a means of closure and shall be automatically controlled to start and operate simultaneously with the exhaust system.

1203.9. Delete entire section.

1203.12. Delete entire section.

1203.3.5. Delete entire section.

1205.1.6. Delete entire section.

1210.1.1. Insert the following new section. Piping and tubing materials standards. Ground-source heat-pump ground-loop pipe and tubing shall conform to the standards listed in Table M2105.4. However, polyvinyl chloride (PVC) and chlorinated polyvinyl chloride (CPVC) shall not be used on geothermal ground loops both inside and underground.

1210.10. Delete and insert in lieu thereof the following: Testing. The assembled loop system shall be pressure tested with water at 45 psi for 15 minutes without observed leaks. Flow and pressure loss testing shall be performed and the actual flow rates and pressure drops shall be compared to the calculated design values. If actual flow rate or pressure drop values differ from calculated design values by more than 10 percent, the cause shall be identified and corrective action taken.

ARTICLE VII

International Energy Conservation Code 2009-2015 - Amendments

Delete Existing Section 500.440 in its entirety and insert in lieu thereof the following:

Section 500.440. Additions, Insertions, Deletions, and Changes.

The International Energy Conservation Code, 2015 Edition, is hereby amended as follows:

C101.1. Delete and insert in lieu thereof the following: Title. This code shall be known as the International Energy Conservation Code of Jefferson County, Missouri, hereinafter referred to as “this code”.

Section C109. Delete entire section. (Refer to Jefferson County Building Code Section 500.280).

Chapter 4 [CE]. Delete entire chapter.

Chapter 5 [CE]. Delete entire chapter.

R101.1. Delete and insert in lieu thereof the following: Title. This code shall be known as the International Energy Conservation Code of Jefferson County, Missouri, hereinafter referred to as “this code”.

Section R109. Delete entire section. (Refer to Jefferson County Building Code Section 500.280).

Chapter 4 [RE]. Delete entire chapter.

Chapter 5 [RE]. Delete entire chapter.

ARTICLE VIII

International Plumbing Code 2009-2015 – Amendments

Delete Existing Section 500.450 in its entirety and insert in lieu thereof the following:

Section 500.450. Additions, Insertions, Deletions, and Changes.

The International Plumbing Code, 2015 Edition, is hereby amended as follows:

101.1. Delete and insert in lieu thereof the following: Title. These regulations shall be known as the Plumbing Code of Jefferson County, Missouri, hereinafter referred to as "this code".

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

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

106.6. Delete entire section. (Refer to Jefferson County Building Code Sections 500.065 and 500.250).

106.6.1. Delete entire section. (Refer to Jefferson County Building Code Section 500.300).

106.6.2. Delete entire section. (Refer to Jefferson County Building Code Section 500.250).

106.6.3. Delete entire section. (Refer to Jefferson County Building Code Section 500.260).

108.1. Delete entire section. (Refer to Jefferson County Building Code Section 500.300).

108.2. Delete entire section. (Refer to Jefferson County Building Code Section 500.300).

108.3. Delete entire section. (Refer to Jefferson County Building Code Section 500.300).

108.4. Delete entire section. (Refer to Jefferson County Building Code Section 500.300).

108.5. Delete entire section. (Refer to Jefferson County Building Code Section 500.310).

109. Delete entire section. (Refer to Jefferson County Building Code Section 500.280).

305.3. Delete and insert in lieu thereof the following: Pipes through foundation walls. A pipe that passes through a foundation wall shall be provided with a relieving arch, or a pipe sleeve shall be built into the foundation wall.

305.4.1. Delete and insert in lieu thereof the following: Sewer Depth. Building sewers that connect to private sewage disposal systems shall be installed not less than 18 inches below finished grade at the point of septic tank connection. Building sewers shall be installed no less than 18 inches below grade.

312.9. Delete entire section.

406.2. Delete and insert in lieu thereof the following: Waste connection. The waste from an automatic clothes washer shall discharge through an air break into a standpipe in accordance with Section 802.4 or into a laundry sink. The trap and

fixture drain for an automatic clothes washer standpipe shall be no less than 2 inches in diameter. The fixture drain for the standpipe serving an automatic clothes washer shall connect to a 2-inch or larger diameter fixture branch or stack. Automatic clothes washers that discharge by gravity shall be permitted to drain to a waste receptor or an approved trench drain.

412.3.1. Insert the following new section: Floor Drains. A minimum of one floor drain shall be required for all residential structures with basements.

406.2. Delete and insert in lieu thereof the following: Shower waste outlet. Waste outlets serving showers shall be no less than 2 inches in diameter and, for other than waste outlets in bathtubs, shall have removable strainers no less than 3 inches in diameter with strainer openings ¼ inch in least dimension. Where each shower space is not provided with an individual waste outlet, the waste outlet shall be located and the floor pitched so that waste from one shower does not flow over the floor areas serving another shower. Waste outlets shall be fastened to the waste pipe in an approved manner.

603.2. Delete and insert in lieu thereof the following: Separation of water service and building sewer. Where water service piping is located in the same trench with the building sewer, such sewer shall be constructed of materials listed in Table 702.2. Where the building sewer piping is not constructed of materials listed in Table 702.2, the water and service pipe and the building sewer shall be horizontally separated by not less than 10 feet of undisturbed or compacted earth. The required separation distance shall not apply where a water service pipe crosses a sewer pipe, provided the water service is sleeved to a point not less than 5 feet horizontally from the sewer pipe centerline on both sides of such crossing. The sleeve shall be of pipe materials listed in Table 605.3, 702.2 or 702.3. the required separation distance shall not apply where the bottom of the water service pipe, located within 5 feet of the sewer, is not less than 12 inches above the highest point of the top of the building sewer.

Table 605.3. Delete "Type M" and "Type WM".

607.3.1. Insert the following new section: Expansion tanks. Any system with a new or a replacement water heating apparatus shall be provided with an approved, listed and adequately sized thermal expansion device (expansion tank), installed within ten (10) feet of and on the cold water supply to the water heater. The tank may be installed in a vertical up, vertical down, or horizontal position in accordance with the manufacturer's recommendation.

Exception:

1. Listed non-storage instantaneous heaters having an inside diameter of not more than three (3") inches.
2. Water heaters, 30 gallons or less, installed under counter or in confined spaces in multi-family units, may use adequately sized mechanical water hammer arrestors to provide for thermal expansion with the approval of the authority having jurisdiction or his/her representative.
3. One and two-family residences served by private well.

608.13. Delete entire section.

608.14. Delete entire section.

701.2. Delete and insert in lieu thereof the following: Sewer required. Buildings in which plumbing fixtures are installed and premises having drainage piping shall be connected to a public sewer if within 400 feet of the structure's property line except as set forth in Section 705.020(D) of the On-Site Sewage Treatment Code of Jefferson County.

703.7. Insert the following new section: Minimum size building sewers. The gravity building sewer shall not be less than four (4) inches in size.

705.11.2. Delete the word "purple" in this Section and anywhere referenced when associated with the word "primer" where it appears in the 2015 International Plumbing Code.

708.1.12. Insert the following new section: Base of stack. A cleanout shall be provided at the base of each waste or soil stack a minimum of thirty-six inches (36") from the finished floor.

Table 710.1(1). Insert the following new footnotes:

- b. The minimum size of the main building drain shall be 4 inches.
- c. The maximum developed length of underground 2" diameter pipe shall be 20 feet.

901.7. Insert the following new section: Stack required. every building in which plumbing is installed shall have at least one stack the size of which is not less than seventy-five percent (75%) of the required size of the building drain. Such stack shall run undiminished in size

903.1. Delete and insert in lieu thereof the following: Roof extension. Open vent pipes that extend through a roof shall be terminated not less than 12 inches above the roof. Where a roof is to be used for assembly or as a promenade, observation deck, sunbathing deck or similar purposes, open vent pipes shall terminate not less than 7 feet above the roof.

903.2. Delete and insert in lieu thereof the following: Frost closure. Where the 97.5-percent value for outside design temperature is 0°F (-18°C) or less, vent extensions through a roof or wall shall be not less than 2 inches in diameter. Any increase in the size of the vent shall be made not less than 1 foot inside the thermal envelope of the building.

Chapter 12. Delete entire chapter.

The 2015 IPSDC is specifically not adopted and shall not apply.

ARTICLE XI

~~International Existing Building Code 2009~~

Delete Existing Article XI and Section 500.480 and insert in lieu thereof the following:

ARTICLE XI

International Swimming Pool and Spa Code 2015 - Amendments

Section 500.480. Additions, Insertions, Deletions, and Changes.

The International Swimming Pool and Spa Code, 2015 Edition, is hereby amended as follows:

101.1. Delete and insert in lieu thereof the following: Title. These regulations shall be known as the Swimming Pool and Spa Code of Jefferson County, Missouri, hereinafter referred to as "this code".

105.6. Delete entire section. (Refer to Jefferson County Building Code Sections 500.065 and 500.250).

105.6.1. Delete entire section. (Refer to Jefferson County Building Code Section 500.300).

105.6.2. Delete entire section. (Refer to Jefferson County Building Code Section 500.250).

105.6.3. Delete entire section. (Refer to Jefferson County Building Code Section 500.260).

107.1. Delete entire section. (Refer to Jefferson County Building Code Section 500.300).

107.2. Delete entire section. (Refer to Jefferson County Building Code Section 500.300).

107.3. Delete entire section. (Refer to Jefferson County Building Code Section 500.300).

107.4. Delete entire section. (Refer to Jefferson County Building Code Section 500.300).

107.5. Delete entire section. (Refer to Jefferson County Building Code Section 500.310).

108. Delete entire section. (Refer to Jefferson County Building Code Section 500.280).

Chapter 705. On-Site Sewage Treatment Code.

705.130(F). Delete paragraph (F) and insert in lieu thereof the following: *Water Softener Discharge.* Water softener discharge may be discharged onto the ground away from the drainfield area or into a curtain drain. This discharge shall not be directed into the on-site sewage system.

Table 602.1. Amend Table 602.1 Minimum Distance from Property lines as follows:

Property lines ⁵	10	10**	<u>75100</u>
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705.320.(A)(1) Amend Section (A)(1) as follows: 1. *Volume determination.* In determining the volume of sewage from single-family dwellings, the minimum flow rate shall be one hundred twenty (120) gallons per day per bedroom. The minimum volume of sewage from each single-family dwelling shall be two hundred forty (240) gallons per day. When the occupancy of a single-family dwelling exceeds two (2) persons per bedroom, the volume of sewage shall be determined by the maximum occupancy at a rate of ~~seventy-fivesixty~~ (7560) gallons per person per day.

705.350. Insert new paragraph (E) to read as follows: E. *Tank Replacement.* Septic tanks shall no longer be permitted for tank replacement on existing systems unless a soil morphology test is performed detailing the soil application rate is 0.5 or better, or a NSF Class 1 Aerator must be installed. A septic tank can be used preceding a lagoon and as a trash tank preceding a NSF Class 1 Aerator, existing septic tanks must be inspected by a licensed design engineer or licensed installer to verify the tank is sealed and has sufficient structural integrity. Tank replacement will require a permit, drawings or plans that detail the proposed tank location.

705.420.(B)(1)(b). Amend section (B)(1)(b) as follows: An approved Class 1 aeration unit or other approved pretreatment system and a pumping or dosing tank. The pumping or dosing tank shall be sized at a minimum of five hundredone thousand (5001,000) gallons or ~~have the capacity to store one (1) day's flow-storage~~ above the pump-on level, ~~or~~ whichever is greater;

705.420.(C). Insert new paragraph 17 to read as follows: 17. Lagoons shall be designed with a 4" diameter outfall pipe drawing effluent from 8" below the operating surface. All outfall discharge shall be kept on the subject property.