

1 ORDINANCE NO. 787.9

2
3 AN ORDINANCE OF THE COUNTY OF RIVERSIDE
4 AMENDING ORDINANCE NO. 787 AND ADOPTING THE
5 2019 CALIFORNIA FIRE CODE AS AMENDED
6

7 The Board of Supervisors of the County of Riverside ordains as follows:

8 Section 1. Ordinance No. 787 is amended in its entirety to read as follows:

9
10 "ORDINANCE NO. 787

11
12 AN ORDINANCE OF THE COUNTY OF RIVERSIDE
13 ADOPTING THE 2019 CALIFORNIA
14 FIRE CODE AS AMENDED
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16 Section 1. FINDINGS. The Board of Supervisors finds the following:

- 17 a. Every three years the State of California adopts a new California
18 Fire Code, as part of the California Building Standards Code, which
19 becomes effective as to Riverside County 180 days after publication
20 by the California Building Standards Commission.
- 21 b. The International Fire Code has been published and adopted, as
22 amended, by the California Building Standards Commission into the
23 California Code of Regulations as Title 24, Part 9, titled the California
24 Fire Code.
- 25 c. Riverside County may establish more restrictive standards reasonably
26 necessary to provide fire protection for life and property because of
27 local climatic, geological or topographical conditions.
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- d. Riverside County has an arid climate with annual rainfall varying from three (3) inches in Blythe to over thirty three (33) inches in Pine Cove. The County also experiences annual hot, dry Santa Ana Winds, which contribute to fires spreading quickly throughout the County.
- e. A variety of regions exist within Riverside County including deserts, mountains, brush covered wild lands, the Salton Sea and agricultural lands. Additionally, elevations within Riverside County range from three hundred (300) feet below sea level to mountains over ten thousand (10,000) feet. This variety in regions contributes to an increased emergency response time, which necessitates cooperation between local agencies.
- f. Riverside County contains a large number of sensitive habitats for various species and vegetation, consists of large open space areas between major urban centers and includes landscapes varying from mountains and hills to valleys and deserts. These conditions impact building and structure location, which impedes emergency access and response.
- g. Riverside County extends from Orange County to the State of Arizona and is mixed with congested urban areas, rural lands and wild lands, which increase Riverside County Fire Department response times to emergencies.
- h. Two major earthquake faults, the San Andreas Fault and the San Jacinto Fault, bisect Riverside County and numerous minor faults exist throughout it. As a result, a substantial amount of property and persons located in Riverside County are likely to be impacted by earthquakes and will require emergency response and rescue.

1 i. The topography within Riverside County extends from flat to twenty-
2 five (25) percent slope for habitable land, which causes buildings and
3 structures to be located in unique areas that impact emergency
4 response and access.

5 j. In addition to earthquakes, a substantial amount of property and
6 persons located in Riverside County are likely to be impacted by
7 landslides, wind erosion, blown sand, flooding and wildfires because
8 of the County's unique climatic, geological and topographical
9 conditions.

10 k. The additional requirements included herein are necessary to properly
11 protect the health, safety and welfare of the residents and workers of
12 Riverside County.

13 l. Revenue shortages make it difficult to locate additional fire stations
14 and provide staffing sufficient to control fires in single and multi-
15 story retail, commercial and industrial buildings, making enhanced
16 built in protection necessary.

17 m. The sections of the California Fire Code may be referred to by the
18 same number used in said published compilation preceded by the
19 words "Riverside County Fire Code Section" or "Fire Code Section."

20 Section 2. PURPOSE. The purpose of this ordinance is to adopt the 2019
21 California Fire Code, California Code of Regulations, Title 24, Part 9, as amended, to govern the
22 safeguarding of life and property from fire, explosion hazards and hazardous conditions and to
23 regulate the issuance of permits and collection of fees.

24 Section 3. AUTHORITY. This ordinance is adopted pursuant to Health and
25 Safety Code Sections 17958, 17958.5, 17958.7 and 18941.5 which allow a county to adopt
26 modifications or changes to the California Fire Code that are reasonably necessary because of local
27 climatic, geological and topographical conditions.

1 Section 4. APPLICATION AND ADOPTION OF THE CALIFORNIA
2 FIRE CODE. Except as stated in this Section or as amended below in Section 5 of this Ordinance,
3 all of the provisions and appendices of the 2019 California Fire Code, inclusive of all of the
4 inclusions and exclusions set for in each chapter's matrix, are hereby adopted and shall apply to the
5 unincorporated areas of Riverside County. In addition, the following provisions that are excluded
6 in the 2019 California Fire Code are hereby adopted - Chapter 1, Division II of the California Fire
7 Code is hereby adopted, except that Section 103.2 and 109.3 are not adopted, and Chapters 3, 25,
8 and Sections 403.12, 503, 510.2, and 1103.2 are adopted.

9 Section 5. AMENDMENTS TO CALIFORNIA FIRE CODE:

10 A. SCOPE AND GENERAL REQUIREMENTS.

11 1. Section 101.4 of the California Fire Code is deleted in its
12 entirety and replaced with the following:

13 **101.4 Severability.** If any provision, clause, sentence or
14 paragraph of this ordinance or the application thereof to any
15 person or circumstances shall be held invalid, such invalidity
16 shall not affect the other provisions of this ordinance which can
17 be given effect without the invalid provision or application, and
18 to this end, the provisions of this ordinance are hereby declared
19 to be severable.

20 B. APPLICABILITY.

21 1. Section 102.5 of the California Fire Code is amended as follows:

22 **102.5 Application of residential code.** Where structures are
23 designed and constructed in accordance with the California
24 Residential Code, the provisions of this code shall apply as follows:

25 1. Construction and design provisions of this code
26 pertaining to the exterior of the structure shall apply including,
27 but not limited to, premises identification, fire apparatus
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1 access and water supplies. Where interior or exterior systems
2 or devices are installed, construction permits required by
3 Section 105.7 of this code shall apply.

4 2. Administrative, operational and maintenance
5 provisions of this code shall apply.

6 3. Automatic fire sprinkler system requirements of this
7 code shall apply to detached accessory buildings 3,600 square
8 feet or greater in accordance with Section 903.2. The
9 provisions contained in Section 903.2.18 of the California Fire
10 Code or Section R309.6 of the California Residential Code
11 may be used for the design of the automatic fire sprinkler
12 system for detached private garages.

13 **C. DEPARTMENT OF FIRE PREVENTION.**

14 1. Sections 103.4 and 103.4.1 of the California Fire Code are deleted
15 in their entirety and replaced with the following:

16 **103.4 Liability.** Any liability against Riverside County or any officer
17 or employee for damages resulting from the discharge of their duties
18 shall be as provided by law.

19 **D. GENERAL AUTHORITY AND RESPONSIBILITIES.**

20 1. A new Section 104.1.1 is added to Section 104.1 of the California
21 Fire Code to read as follows:

22 **104.1.1 Authority of the Fire Chief and Fire Department.**

23 1. The Fire Chief is authorized and directed to enforce all
24 applicable State fire laws and provisions of this ordinance and
25 to perform such duties as directed by the Riverside County
26 Board of Supervisors.

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2. The Fire Chief is authorized to administer, interpret and enforce this ordinance. Under the Fire Chief's direction, the Riverside County Fire Department is authorized to enforce ordinances of Riverside County pertaining to the following:

- 2.1. The prevention of fires.
- 2.2. The suppression or extinguishment of dangerous or hazardous fires.
- 2.3. The storage, use and handling of hazardous materials.
- 2.4. The installation and maintenance of automatic, manual and other private fire alarm systems and fire extinguishing equipment.
- 2.5. The maintenance and regulation of fire escapes.
- 2.6. The maintenance of fire protection and the elimination of fire hazards on land, in buildings, structures and other property, including those under construction.
- 2.7. The maintenance of means of egress.
- 2.8. The investigation of the cause, origin and circumstances of fire and unauthorized releases of hazardous materials.

3. The following persons are hereby authorized to interpret and enforce the provisions of this ordinance and to make arrests and issue citations as authorized by law:

1 3.1. The Unit Chief, Peace Officers and Public
2 Officers of the California Department of Forestry and
3 Fire Protection.

4 3.2. The Fire Chief, Peace Officers and Public Officers
5 of the Riverside County Fire Department.

6 3.3. The Riverside County Sheriff and any deputy
7 sheriff.

8 3.4. The Police Chief and any police officer of any city
9 served by the Riverside County Fire Department.

10 3.5. Officers of the California Highway Patrol.

11 3.6. Code Officers of the Riverside County Code
12 Enforcement Department.

13 3.7. Peace Officers of the California Department of
14 Parks and Recreation.

15 3.8. The law enforcement officer of the Federal
16 Bureau of Land Management.

17 2. A new Section 104.12 is added to Section 104 of the
18 California Fire Code to read as follows:

19 **104.12 Authority of the Fire Chief to close hazardous fire areas.**

20 Except upon National Forest Land, the Fire Chief is authorized to
21 determine and announce the closure of any hazardous fire area or
22 portion thereof. Any closure by the Fire Chief for a period of more
23 than fifteen (15) calendar days must be approved by the Riverside
24 County Board of Supervisors within fifteen (15) calendar days of the
25 Fire Chief's original order of closure. Upon such closure, no person
26 shall go in or be upon any hazardous fire area, except upon the public
27 roadways and inhabited areas. During such closure, the Fire Chief

1 shall erect and maintain at all entrances to the closed area sufficient
2 signs giving notice of closure. This section shall not prohibit residents
3 or owners of private property within any closed area, or their invitees,
4 from going in or being upon their lands. This section shall not apply
5 to any entry, in the course of duty, by a peace officer, duly authorized
6 public officer or fire department personnel. For the purpose of this
7 section, "hazardous fire area" shall mean public or private land that is
8 covered with grass, grain, brush or forest and situated in a location
9 that makes suppression difficult resulting in great damage. Such areas
10 are designated on Hazardous Fire Area maps filed with the office of
11 the Fire Chief.

12 **E. FEES.**

13 1. Section 106.2 of the California Fire Code is deleted in its
14 entirety and replaced with the following:

15 **106.2 Schedule of permit fees.** Fees for services and permits shall be
16 as set forth in Riverside County Ordinance No. 671.

17 2. A new Section 106.6 is added to Section 106 of the California
18 Fire Code to read as follows:

19 **106.6 Cost recovery.** Fire suppression, investigation, rescue or
20 emergency medical costs are recoverable in accordance with Health
21 and Safety Code Sections 13009 and 13009.1, as may be amended
22 from time to time. Additionally, any person who negligently,
23 intentionally or in violation of law causes an emergency response,
24 including, but not limited to, a traffic accident, spill of toxic or
25 flammable fluids or chemicals is liable for the costs of securing such
26 emergency, including those costs pursuant to Government Code
27 Section 53150, et seq, as may be amended from time to time. Any
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1 expense incurred by the Riverside County Fire Department for
2 securing such emergency shall constitute a debt of such person and
3 shall be collectable by Riverside County in the same manner as in the
4 case of an obligation under contract, express or implied.

5 **F. BOARD OF APPEALS.**

6 1. Section 109.1 of the California Fire Code is deleted in its
7 entirety and replaced with the following:

8 **109.1 Board of appeals established.** The Board of Appeals shall be
9 the County Executive Officer. If he or she determines an outside
10 board is needed, he or she shall designate an outside hearing officer
11 to hear the appeal. The Fire Chief shall be notified of any appeal and
12 the Fire Chief or designee shall be in attendance at the appeal hearing.
13 Depending on the subject of the appeal, specialized expertise may be
14 solicited, at the expense of the applicant, for the purpose of providing
15 input to the Appeals Board.

16 **G. VIOLATIONS.**

17 1. Section 110.4 of the California Fire Code is deleted in its
18 entirety and replaced with the following:

19 **110.4 Violation and penalties.** It shall be unlawful for any person,
20 firm, corporation or association of persons to violate any provision of
21 this ordinance, or to violate the provisions of any permit granted
22 pursuant to this code or Ordinance No. 787. Punishments and
23 penalties for violations shall be in accordance with Ordinance No. 725
24 and Health and Safety Code Sections 17995 through 17995.5.

25 **H. DEFINITIONS.**

26 1. Section 202, definition of "Fire Chief" in the California Fire
27 Code is deleted in its entirety and replaced with the following:
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FIRE CHIEF. The Fire Chief of Riverside County or the Fire Chief's designee.

I. OPEN FLAMES.

1. Section 308.1.6.3 of the California Fire Code is deleted in its entirety and replaced with the following:

308.1.6.3 Sky lanterns or similar devices. A person shall not release or cause to be released a sky lantern or similar device.

J. FIRE APPARATUS ACCESS ROADS.

1. Section 503.2.1 of the California Fire Code is deleted in its entirety and replaced with the following:

503.2.1 Dimensions. Fire apparatus access roads shall have an unobstructed width of not less than 24 feet (7315 mm), exclusive of shoulders, except for approved security gates in accordance with Section 503.6, and an unobstructed vertical clearance of not less than 13 feet 6 inches (4115 mm). For additional requirements or alternatives see Riverside County Fire Department Standards and Policies, as may be amended from time to time.

2. Section 503.2.2 of the California Fire Code is deleted in its entirety and replaced with the following:

503.2.2 Authority. The fire code official shall be the only authority authorized to designate fire apparatus access roads and fire lanes and to modify the minimum fire lane access widths for fire or rescue operations

3. A new Section 503.6.1 is added to Section 503.6 of the California Fire Code to read as follows:

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503.6.1 Automatic opener. New motorized gates shall be provided with means to be automatically opened remotely by emergency vehicle in accordance with Riverside County Fire Department standards and Policies, as may be amended from time to time.

Exception: Gates serving individual one- and two-family dwelling parcels.

4. A new Section 503.7 is added to Section 503 of the California Fire Code to read as follows:

503.7 Loading areas and passenger drop-off areas. On private properties, where fire apparatus access roads are utilized for loading or unloading or utilized for passenger drop-off or pick-up, an additional eight (8) feet of width shall be added to the minimum required width for the fire apparatus access road.

K. FIRE PROTECTION WATER SUPPLIES.

1. A new Section 507.5.7 is added to Section 507 of the California Fire Code to read as follows:

507.5.7 Fire hydrant size and outlets. As determined by the fire code official, fire hydrant sizes and outlets shall be based on the following:

1. Residential Standard - one (1) four (4) inch outlet and one (1) two and half (2 ½) inch outlet.
2. Super Hydrant Standard - one (1) four (4) inch outlet and two (2) two and one half (2½) inch outlet.
3. Super Hydrant Enhanced - two (2) four (4) inch outlet and one (1) two and one half (2½) inch outlet.

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2. A new Section 507.5.8 is added to Section 507 of the California Fire Code to read as follows:

507.5.8 Fire hydrant street marker. Fire hydrant locations shall be visually indicated in accordance with Riverside County Fire Department Technical Policy 06-11, as may be amended from time to time. Any hydrant marker damaged or removed during the course of street construction or repair shall be immediately replaced by the contractor, developer or person responsible for removal or damage.

L. FIRE COMMAND CENTER.

1. Section 508.1 of the California Fire Code is deleted in its entirety and replaced with the following:

508.1 General. Where required by other sections of this code and in all buildings classified as high-rise buildings by the California Building Code, in buildings greater than 300,000 square feet in area and in Group I-2 occupancies having occupied floors located more than 75 feet above the lowest level of fire department vehicle access, a fire command center for fire department operations shall be provided and comply with Sections 508.1.1 through 508.1.8.

2. Section 508.1.1 of the California Fire Code is deleted in its entirety and replaced with the following:

508.1.1 Location and access. The fire command center shall be located adjacent to the main lobby and shall be accessible from fire department vehicular access or as approved by the fire code official. The room shall have direct access from the building exterior at the lowest level of fire department access.

1 3. Section 508.1.3 of the California Fire Code is amended to add
2 the following:

3 **Exception:** A fire command center solely required because a building
4 is greater than 300,000 square feet in area shall be a minimum of 96
5 square feet (9 m²) with a minimum dimension of 8 feet (2438mm).

6 4. Section 508.1.6 of the California Fire Code is amended to add
7 the following:

8 **Exception:** A fire command center solely required because a building
9 is greater than 300,000 square feet in area shall comply with NFPA
10 72 and contain the features set forth in Section 508.1.6 subsections 5,
11 8, 10, 12, 13 and 14. The features set forth in Section 508.1.6
12 subsections 1, 2, 3, 4, 6, 7, 9, 11, 15, 16, 17, 18 and 19 shall be
13 required when such building contains systems or functions related to
14 these features.

15 5. A new Section 508.1.8 is added to Section 508 of the
16 California Fire Code to read as follows:

17 **508.1.8 Fire command center identification.** The fire command
18 center shall be identified by a permanent easily visible sign stating
19 “Fire Dept. Command Center,” located on the door to the fire
20 command center.

21 **M. FIRE PROTECTION AND UTILITY**

22 **EQUIPMENT IDENTIFICATION AND LOCATION.**

23 1. A new Section 509.2.1 is added to Section 509 of the
24 California Fire Code to read as follows:

25 **509.2.1 Minimum clearances.** A 3-foot (914 mm) clear space shall
26 be maintained around the circumference of exterior fire protection
27 system control valves, or any other exterior fire protection system
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component that may require immediate access, except as otherwise required or approved.

N. MECHANICAL REFRIGERATION.

1. Section 606.10.1.2 of the California Fire Code is deleted in its entirety and replaced with the following:

606.10.1.2 Manual operation. When required by the fire code official, automatic crossover valves shall be capable of manual operation. The manual valves shall be located in an approved location immediately outside of the machinery room in a secure metal box or equivalent and marked as Emergency Controls.

O. AUTOMATIC SPRINKLER SYSTEMS.

1. Section 903.2 of the California Fire Code is deleted in its entirety and replaced with the following:

903.2 Where required. In all new buildings and structures which are 3,600 square feet or greater, an approved automatic sprinkler system shall be provided regardless of occupancy classification. Where the Sections 903.2.1 – 903.2.20 of the California Fire Code require more restrictive requirements than those listed below, the more restrictive requirement shall take precedence.

Exception: Unless required elsewhere in this code or the California Building Code, automatic fire sprinkler systems shall not be required for the following:

1. Detached Group U occupancies used for agricultural purposes constructed in accordance with the California Building Code.

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2. Detached non-combustible equestrian arena shade canopies that are open on all sides and used for riding only - no commercial, assembly or storage uses.

3. Detached fabric or non-combustible shade structures that are open on all sides and used to shade playground equipment, temporary storage of vehicles and dining areas with no cooking.

4. Where determined by the Fire Chief that no major life safety hazard exists, and the fuel load does not pose a significant threat to firefighter safety or to other structures or property, automatic fire sprinklers may be exempted.

One- and two-family dwellings shall have an automatic fire sprinkler system regardless of square footage in accordance with the California Residential Code. Fire sprinkler systems shall be installed in mobilehomes, manufactured homes and multifamily manufactured homes with two dwelling units in accordance with Title 25 of the California Code of Regulations.

The following exceptions in the California Fire Code shall not be allowed:

- a. Exception in Section 903.2.3
- b. Exception 2 in Section 903.2.11.3

2. A new Section 903.3.5.3 is added to Section 903 of the California Fire Code to read as follows:

903.3.5.3 Hydraulically calculated systems. The design of hydraulically calculated fire sprinkler systems shall not exceed 90% of the water supply capacity.

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P. DESIGNATION OF HIGH-PILED STORAGE AREAS.

1. A new Section is added to Section 3204.2 of the California Fire Code to read as follows:

3204.2.1 Minimum requirements for client leased or occupant owned warehouses. Designs of an automatic sprinkler system for client leased or occupant owned buildings containing high pile storage shall be based on the requirements of NFPA 13. The responsible fire protection engineer shall perform a survey of the building to determine commodity classification, storage configuration, building height and other information related to the development of an appropriate sprinkler system design. The fire protection engineer shall also make reasonable efforts to meet with the building owner or operator to understand seasonal or customer related fluctuations to the stored commodities, storage height, and configuration. The sprinkler design shall be based on the most demanding requirements determined through the onsite survey and discussions with the building owner or operator. The technical report shall describe the basis for determining the commodity and sprinkler design selection, how the commodities will be isolated or separated, and include references to the design document(s). If a specific fire test is used as the basis of design, a copy of the fire test report shall be provided at the time of plan review.

Q. FIRE HAZARD SEVERITY ZONES.

1. A new Section 4904.3 is added to Section 4904 of the California Fire Code to read as follows:

4904.3 High Fire Hazard Severity Zone Maps. In accordance with Government Code Sections 51175 through 51189, Very High Fire

1 Hazard Severity Zones are designated as shown on a map titled Very
2 High Fire Hazard Severity Zones, dated December 24, 2009 and
3 retained on file at the office of the Fire Chief, which supersedes other
4 maps previously adopted by Riverside County designating high fire
5 hazard areas.

6 **R. APPENDIX B.**

7 1. Table B105.2 of the California Fire Code is amended as
8 follows:

9 **TABLE B105.2**
10 **REQUIRED FIRE-FLOW FOR BUILDINGS OTHER THAN ONE- AND**
TWO-FAMILY DWELLINGS, GROUP R-3 AND R-4 BUILDINGS AND TOWNHOUSES

AUTOMATIC SPRINKLER SYSTEM (Design Standard)	MINIMUM FIRE-FLOW (gallons per minute)	FLOW DURATION (hours)
No automatic sprinkler system	Value in Table B105.1(2)	Duration in Table B105.1(2)
Section 903.3.1.1 of the <i>California Fire Code</i>	50% of the value in Table B105.1(2) ^a	Duration in Table B105.1(2) at the reduced flow rate
Section 903.3.1.2 of the <i>California Fire Code</i>	50% of the value in Table B105.1(2) ^b	Duration in Table B105.1(2) at the reduced flow rate

17 For SI: 1 gallon per minute = 3.785 L/m.

- 18
- 19 a. The reduced fire-flow shall be not less than 1,000
20 gallons per minute.
- 21 b. The reduced fire-flow shall be not less than 1,500
22 gallons per minute.

23 **S. APPENDIX C.**

24 1. Section C103.1 of the California Fire Code is deleted in its
25 entirety and replaced with the following:
26

1 **C103.1 Hydrant spacing.** Fire apparatus access roads and public
2 streets providing required access to buildings in accordance with
3 Section 503 of the California Fire Code shall be provided with one or
4 more fire hydrants, as determined by Section C102.1. Where more
5 than one fire hydrant is required, the distance between required fire
6 hydrants shall be in accordance with Sections C103.2 and C103.3.
7 Fire hydrants shall be provided at street intersections.

8 Section 2. EFFECTIVE DATE. This ordinance shall take effect January 1, 2020.”

9
10 BOARD OF SUPERVISORS OF THE COUNTY
OF RIVERSIDE, STATE OF CALIFORNIA

11
12 By: 
Chairman

13 ATTEST:

14 CLERK OF THE BOARD

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16 By: 
Deputy

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19 (SEAL)

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23 APPROVED AS TO FORM:

24 October 11, 2019

25
26 By: 
BRUCE G. FORDON
27 Deputy County Counsel

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STATE OF CALIFORNIA)
)
COUNTY OF RIVERSIDE) ss

I HEREBY CERTIFY that at a regular meeting of the Board of Supervisors of said county held on November 5, 2019, the foregoing ordinance consisting of 2 Sections was adopted by the following vote:

AYES: Jeffries, Spiegel, Washington, Perez and Hewitt
NAYS: None
ABSENT: None

DATE: November 5, 2019

KECIA R. HARPER
Clerk of the Board
BY: *Karen [Signature]*
Deputy

SEAL