

A BILL FOR AN ORDINANCE

ORDINANCE NO: 23

SERIES OF 2013

INTRODUCED BY: COUNCILMEMBER ROEMER

AN ORDINANCE REPEALING AND REENACTING ARTICLES 2 THROUGH 8 OF CHAPTER 18 OF THE GREENWOOD VILLAGE CODE TO ADOPT BY REFERENCE THE INTERNATIONAL BUILDING CODE, 2012 EDITION; THE INTERNATIONAL RESIDENTIAL CODE, 2012 EDITION; THE INTERNATIONAL PLUMBING CODE, 2012 EDITION; THE INTERNATIONAL MECHANICAL CODE, 2012 EDITION; THE INTERNATIONAL FUEL GAS CODE, 2012 EDITION; THE INTERNATIONAL FIRE CODE, 2012 EDITION; THE INTERNATIONAL ENERGY CONSERVATION CODE, 2012 EDITION; AND ADDING A NEW ARTICLE 9 ADOPTING THE INTERNATIONAL SWIMMING POOL AND SPA CODE (ISPSC), 2012 EDITION

THE COUNCIL OF THE CITY OF GREENWOOD VILLAGE, COLORADO, ORDAINS:

Section 1. Article 2 of Chapter 18 of the Greenwood Village Municipal Code is hereby repealed in its entirety and reenacted to read as follows:

ARTICLE 2

Building Code

Sec. 18-2-10. Adoption.

Pursuant to Title 31, Article 16, Part 2, C.R.S., there is adopted as the building code of the City, by reference thereto, the International Building Code, 2012 edition ("IBC"), published by the International Code Council, Inc., 500 New Jersey Avenue, NW, 6th floor, Washington, DC 20001, to regulate the erection, construction, enlargement, alteration, repair, moving, removal, demolition, conversion, occupancy, equipment use, height, area and maintenance of all building and structures and building services equipment of all buildings and structures in the City, and with respect to the issuance of permits and collection of fees therefor, except and explicitly for the amendments, deletions and exclusions in Section 18-2-30 below.

Sec. 18-2-20. Copy on file.

At least one copy of the International Building Code shall be on file in the office of the City Clerk and may be inspected by any interested person during regular business hours.

Sec. 18-2-30. Amendments.

The 2012 IBC is hereby modified by the following additions, amendments and deletions:

(1) Additions. The following new sections and provisions are added to the IBC:

“All elevator and conveying systems shall be regulated by the current Safety Code for Elevators and Escalators American Society of Mechanical Engineers (ASME); ASME A17.1-2007 , Safety Code for Existing Elevators and Escalators; ASME A17.3-2005 and Safety Standard for Platform Lifts and Stairway Chairlifts; ASME A18.1 as adopted by the State of Colorado.”

“The Chief Building Official shall have the authority to approve all building, plumbing, mechanical, and other materials and applications, as necessary, in order to remain current with approved applications and installation methods as approved by nationally recognized testing and approval agencies.”

“Section 110, Inspections.

Section 110.3.1, Foundation location survey. When required by the Planning Manager, a foundation location and foundation height survey must be submitted to and approved by the Planning Division prior to any construction above grade; additionally, the survey must be approved prior to any above grade inspections by the Building Safety Division.”

Section 110.3.4, Roof Ridge Height Survey. When required by the Planning Manager, a roof ridge height survey must be submitted to and approved by the Planning Division prior to any above grade rough inspections by the Building Safety Division.”

“Section 111.3, Temporary occupancy.

Section 111.3.1, Financial surety for temporary occupancy. As a condition of the issuance of a Temporary Certificate of Occupancy, the Chief Building Official may require cash in the amount as may be deemed necessary to assure the completion or correction of work in accordance with the approved plans and specifications and an administrative fee. In lieu of cash, any instrument of credit approved by the Chief Building Official may be accepted.

In addition to the financial surety, the owner shall provide an access easement that would grant to the City and its agents the right to enter upon the property to complete work covered by the agreement. An agreed upon time frame

for the completion of the work shall be stipulated as a condition of the issuance of the Temporary Certificate of Occupancy.”

“**Section 202, Certificate of Completion.** A certificate stating that the materials and products meet specified standards or that work was done in compliance with this code and approved construction documents. Issuance of a Certificate of Completion shall not be construed as an approval of a violation of the provisions of this code or of other ordinances of the jurisdiction. Use of the space or equipment is prohibited until the Certificate of Completion is issued by the Building Official.”

(2) Amendments. The following sections of the 2012 IBC are hereby amended to read as follows:

“**Section 111, Use and Occupancy.** No building or structure shall be used or occupied, and no change in the existing occupancy classification of a building or structure or portion thereof shall be made, until the building official has issued a certificate of occupancy or Certificate of Completion therefor as provided herein. Issuance of a certificate of occupancy or Certificate of Completion shall not be construed as an approval of a violation of the provisions of this code or other ordinances of the jurisdiction.”

“**Chapter 27 Electrical.** This chapter governs the electrical components, equipment and systems used in buildings and structures covered by this code. Electrical components, equipment and systems shall be designed and constructed in accordance with the provisions of NFPA 70 and the National Electric Code adopted by the State of Colorado Electric Board. All regulation and inspection of electrical components, equipment and electrical systems shall remain with the Colorado State Electrical Board.”

(3) Deletions. The following items in the 2012 IBC are hereby deleted as follows:

- a. Any and all references to the International Existing Building Code.
- b. Section 3401.4; Alternative compliance.
- c. Any and all references to the International Property Maintenance Code.
- d. Section 105 Permits. Subsection 105.2, Work exempt from permit Item #2, Fences not over 7 feet high.

Section 2. Article 3 of Chapter 18 of the Greenwood Village Municipal Code is hereby repealed in its entirety and reenacted to read as follows:

ARTICLE 3

Residential Code

Sec. 18-3-10. Adoption.

Pursuant to Title 31, Article 16, Part 2, C.R.S., there is adopted as the residential code of the City, by reference thereto, the International Residential Code, 2012 edition ("IRC"), together with all appendices and tables thereto, published by the International Code Council, Inc., 500 New Jersey Avenue, NW, 6th floor, Washington, DC 20001, to have the same force and effect as if set forth herein in every particular. The subject matter of the adopted code regulates the erection, construction, enlargement, alteration, repair, moving, removal, demolition, conversion, occupancy, equipment use, height, area and maintenance of all building and structures and building services equipment of all buildings and structures in the City, and with respect to the issuance of permits and collection of fees therefore, except and explicitly for the following amendments, deletions and exclusions in Section 18-3-30 below.

Section 18-3-20. Copy on file.

At least one copy of the International Residential Code shall be on file in the office of the City Clerk and may be inspected by any interested person during regular business hours.

Section 18-3-30. Amendments.

The 2012 IRC is hereby modified by the following additions, amendments and deletions:

(1) Additions. The following new sections and provisions are added to the IRC.

“Any and all references to the International Electrical Code shall refer to the National Electric Code (NEC), as currently adopted by the State of Colorado. IRC Part VIII, Chapters 34 through 43 shall be deleted in their entirety. All regulation and inspection shall remain with the State Electric Board.”

“The Chief Building Official shall have the authority to approve all building, plumbing, mechanical, and other materials and applications, as necessary, in order to remain current with approved applications and installation methods as approved by nationally recognized testing and approval agencies.”

“**R109.1.1; Footing and foundation inspection.** When required by the Planning Manager, a foundation location and foundation height survey must be submitted to and approved by the Planning Division prior to any construction above grade; additionally, the survey must be approved prior to any above grade inspections by the Building Safety Division.”

“Section R109.1.1.2; Frame Inspection. When required by the Planning Manager, a roof ridge height survey must be submitted to and approved by the Planning Division prior to any above grade rough inspections by the Building Safety Division.”

“Section R110.4 .1; Financial Surety for Temporary Occupancy. As a condition of the issuance of a Temporary Certificate of Occupancy, the Chief Building Official may require cash in the amount as may be deemed necessary to assure the completion or correction of work in accordance with the approved plans and specifications and an administrative fee. In lieu of cash, any instrument of credit approved by the Chief Building Official may be accepted.

In addition to the financial surety, the owner shall provide an access easement that would grant to the City and its agents the right to enter upon the property to complete work covered by the agreement. An agreed upon time frame for the completion of the work shall be stipulated as a condition of the issuance of the Temporary Certificate of Occupancy.”

“Section R202. Certificate of Completion. A certificate stating that the materials and products meet specified standards or that work was done in compliance with this code and approved construction documents. Issuance of a Certificate of Completion shall not be construed as an approval of a violation of the provisions of this code or of other ordinances of the jurisdiction.”

“R2302 Solar Energy Systems, Section 2302.5
International Fire Code Chapter 6, section 605.11 is adopted in its entirety.”

“Section R324.1 Sound Transmission.
All regulation of sound transmission is referenced in the International Building Code, Chapter 12, and Section 1207.”

“Table R301.2(1) Climatic and Geographic Design Criteria Table”

Ground snow load	Wind design speed	Wind design topographic effect	Seismic design category	Weathering	Frost line depth
30 psf	100 mph	No	'B'	Severe	36"
Termite	Winter Design Temp	Ice Barrier underlayment required	Flood Hazard	Air Freezing index	Mean Annual Temp
Slight	1	Yes	(a)1980 (b) 08/16/1995	<1000	50

(2) Amendments. The following sections of the 2012 IRC are amended to read as follows:

“R105 Permits, R105.2, Work exempt from permit:

Item #1: One-story detached accessory structures used as tool and storage sheds, playhouses and similar uses, provided the floor area does not exceed 120 square feet.”

“Section R110; Certificate of Occupancy. No building or structure shall be used or occupied, and no change in the existing occupancy classification of a building or structure or portion thereof shall be made, until the building official has issued a Certificate of Occupancy or Certificate of Completion therefor as provided herein. Issuance of a Certificate of Occupancy or Certificate of Completion shall not be construed as an approval of a violation of the provisions of this code or other ordinances of the jurisdiction. Certificates presuming to give authority to violate or cancel the provisions of this code or other ordinances of the jurisdiction shall not be valid.”

“Section R303.5.1 Intake Openings. Mechanical and gravity outdoor air intake openings shall be located a minimum of 10 feet from any hazardous or noxious contaminant, such as vents, chimneys, plumbing vents, streets, alleys, parking lots and loading docks, except as otherwise specified in this code. Where a source of contaminant is located within 10 feet of an intake opening, such opening shall be located a minimum of 2 feet below the contaminant source.”

R313.1 Townhouse automatic fire sprinkler systems.

EXCEPTIONS:

1. An automatic sprinkler system shall not be required if the fire flow in the hydrant system and the required distance to the hydrant meets the requirement of the IFC.
2. An automatic sprinkler system is not required in townhouses that are less than 7700 square feet in area.
3. An automatic residential fire sprinkler system shall not be required for additions or alterations to existing buildings that are not already provided with an automatic residential sprinkler system.

R313.2 One- and two-family dwellings automatic fire sprinkler systems.

“AP101 Fire Sprinklers. An approved automatic fire sprinkler system shall be installed in new one- and two-family dwellings and townhouses with a total building area in excess of 7700 square feet in accordance with Section 903.3.1 of the International Building Code.” Delete in its entirety.

EXCEPTIONS:

1. An automatic sprinkler system shall not be required if the fire flow in the hydrant system and the required distance to the hydrant meets the requirements of the IFC.
2. An automatic sprinkler system is not required in one- and two-family dwellings that are less than 7700 square feet in area.
3. An automatic residential fire sprinkler system shall not be required for additions or alterations to existing buildings that are not already provided with an automatic residential sprinkler system.

“Section M1901 Ranges and Ovens; M1901.3 Prohibited Locations. Cooking Appliances designed, tested, listed and labeled for use in commercial occupancies may be installed within dwelling units. All requirements in the IBC, IMC, IFGC and the IFC for commercial cooking equipment shall be met.”

“Section P2503.5.1 Rough Plumbing. DWV (Drain Waste and Vent) systems, including plastic piping, shall be tested on completion of the rough piping installation by water. An air test is permitted if approved by the building official. With either test there shall be no evidence of leakage.”

“P2905.4 Water Service Pipe Only copper pipe approved by the Denver Water District Service Agreement shall be approved for use in water service lines.”

“Section 3103.5 Location of Vent Terminal. An open vent terminal from a drainage system shall not be located less than 4 feet directly beneath any door, operable window, or other air intake opening of the building or of an adjacent building, nor shall any such vent terminal be within 10 feet horizontally of such an opening unless it is not less than 2 feet above the top of such opening.”

- (3) Deletions. The following items shall be deleted from the 2012 edition of the IRC
- a. R105.2 Work exempt from permit, items 2 and 10.
 - b. Table P2905.4 Water Service Pipe
 - c. Section R313 Automatic Fire Sprinkler Systems

Section 3. Article 4 of Chapter 18 of the Greenwood Village Municipal Code is hereby repealed in its entirety and reenacted to read as follows:

ARTICLE 4

Plumbing Code

Section. 18-4-10. Adoption.

Pursuant to Title 31, Article 16, Part 2, C.R.S., there is adopted as the plumbing code of the City, by reference thereto, the International Plumbing Code, 2012 edition ("IPC"), and all appendices and tables thereto, published by the International Code Council, 500 New Jersey Avenue, NW, 6th floor, Washington, DC 20001, to regulate the erection, construction, enlargement, alteration, repair, moving, removal, demolition, conversion, occupancy, equipment use, height, area and maintenance of all building and structures and building services equipment of all buildings and structures in the City, and with respect to the issuance of permits and collection of fees therefore, except and explicitly for the following amendments, deletions and exclusions in Section 18-4-30 below.

Section. 18-4-20. Copy on file.

At least one copy of the International Plumbing Code shall be on file in the office of the City Clerk and may be inspected by any interested person during regular business hours.

Section. 18-4-30. Amendments.

The 2012 IPC is hereby modified by the following additions, amendments and deletions:

- (1) Additions. The following provision shall be added to the 2012 IPC:

“The Chief Building Official shall have the authority to approve all building, plumbing, mechanical, and other materials and applications, as necessary, in order to remain current with approved applications and installation methods as approved by nationally recognized testing and approval agencies.”

- (2) Amendments. The following sections of the IPC are amended to read as follows:

“**Section 605 Materials, joints and connections.** Only copper pipe approved by the Denver Water District shall be approved for use in water service lines”

“**Section 903.5 Location of Vent Terminal**

An open vent terminal from a drainage system shall not be located less than 4 feet directly beneath any door, operable window, or other air intake opening of the building or of an adjacent building, nor shall any such vent terminal be within 10 feet horizontally of such an opening unless it is not less than 2 feet above the top of such opening.”

- (3) Deletions. The following items shall be deleted from the IPC.

Table 605.3 Water Service Pipe.

Section 4. Article 5 of Chapter 18 of the Greenwood Village Municipal Code is hereby repealed in its entirety and reenacted to read as follows:

ARTICLE 5

Mechanical Code

Section. 18-5-10. Adoption.

Pursuant to Title 31, Article 16, Part 2, C.R.S., there is adopted as the mechanical code for the City, by reference thereto, the International Mechanical Code , 2012 edition ("IMC"), together with all appendices and tables thereto, published by the International Code Council, 500 New Jersey Avenue, NW, 6th floor, Washington, DC 20001, to regulate the erection, construction, enlargement, alteration, repair, moving, removal, demolition, conversion, occupancy, equipment use, height, area and maintenance of all building and structures and building services equipment of all buildings and structures in the City, and with respect to the issuance of permits and collection of fees therefore.

Section. 18-5-20. Copy on file.

At least one copy of the International Mechanical Code shall be on file in the office of the City Clerk and may be inspected by any interested person during regular business hours.

Section 18-5-30. Amendments.

- (1) Additions. The following provision shall be added to the 2012 IMC.

“The Chief Building Official shall have the authority to approve all building, plumbing, mechanical, and other materials and applications, as necessary, in order to remain current with approved applications and installation methods as approved by nationally recognized testing and approval agencies.”

- (2) Amendments. None.
- (3) Deletions. None.

Section 5. Article 6 of Chapter 18 of the Greenwood Village Municipal Code is hereby repealed in its entirety and reenacted to read as follows:

ARTICLE 6

Fuel Gas Code

Section. 18-6-10. Adoption.

The International Fuel Gas Code, 2012 edition (IFGC), published by the International Code Council, 500 New Jersey Avenue, NW, 6th floor, Washington, DC 20001, is hereby adopted by reference to regulate the erection, construction, enlargement, alteration, repair, moving, removal, demolition, conversion, occupancy, equipment use, height, area and maintenance of all building and structures and building services equipment of all buildings and structures in the city, and with respect to the issuance of permits and collection of fees therefore.

Sec. 18-6-20. Copy on file.

At least one copy of the International Fuel Gas Code shall be on file in the office of the City Clerk and may be inspected by any interested person during regular business hours.

Sec. 18-6-30. Amendments.

- (1) Additions. The following provision shall be added to the IFGC.

“The Chief Building Official shall have the authority to approve all building, plumbing, mechanical, and other materials and applications, as necessary, in order to remain current with approved applications and installation methods as approved by nationally recognized testing and approval agencies.”

- (2) Amendments. None.
(3) Deletions. None.

Section 6. Article 7 of Chapter 18 of the Greenwood Village Municipal Code is hereby repealed in its entirety and reenacted to read as follows:

ARTICLE 7

Fire Code

Sec. 18-7-10. Adoption.

The International Fire Code, 2012 edition (IFC), published by the International Code Council, 500 New Jersey Avenue, NW, 6th floor, Washington, DC 20001, is hereby adopted by reference to regulate the erection, construction, enlargement, alteration, repair, moving, removal, demolition, conversion, occupancy, equipment use, height, area and maintenance of all building and structures and building services equipment of all buildings and structures in the City, and with respect to the issuance of permits and collection of fees therefore.

Sec. 18-7-20. Copy on file.

At least one copy of the International Fire Code shall be on file in the office of the City Clerk and may be inspected by any interested person during regular business hours.

Sec. 18-7-30. Amendments.

- (1) Additions. The following provision shall be added to the IFC.

Appendix C, Fire Hydrant Locations and Distribution, is adopted in its entirety.

- (2) Amendments. The following sections of the IFC are amended to read as follows:

“Section 109.3, Violation penalties. Persons who violate a provision of this code or fail to comply with any of the requirements thereof or who erect, install, alter, repair or do work in violation of the approved construction documents or directive of the fire code official, or of a permit or certificate used under provisions of this Code, shall be subject to fine and/or imprisonment up to the maximum specified in Section 18-1-30 of the Greenwood Village Code. Each day that a violation continues after due notice has been served shall be deemed a separate offense.”

“Section 111.4, Failure to comply. Any person who shall continue any work after having been served with a stop work order, except such work as that person is directed to perform to remove a violation or unsafe condition, shall be subject to fine and/or imprisonment up to the maximum specified in Section 18-1-30 of the Greenwood Village Code.”

“Section 507.3, Fire Flow. Fire flow requirements for buildings or portions of buildings and facilities shall be determined in accordance with Appendix B or by an approved method.”

“Section 507.5, Fire Hydrant systems. Fire hydrant systems shall comply with Section 507.5.1 through 507.5.6 and Appendix C or by an approved method.”

“Section 907.2.9.1 Group –R, Manual Fire alarm system. A manual fire alarm system that activates the occupant notification system in accordance with Section 907.6 shall be installed in Group R-2 occupancies where:

1. (No changes)
2. (No changes)
3. The building contains more than 16 dwelling units or sleeping rooms.

EXCEPTIONS:

1. (No changes)
2. (No changes)

3. A fire alarm system is not required in buildings that do not have interior corridors serving dwelling units, provided that dwelling units either have a means of egress door opening directly to an exterior exit access that leads directly to the exits or are served by open-ended corridors designed in accordance with Section 1026.6, Exception 4.”

“**Section 5601.1.3, Fireworks.** The possession, manufacture, storage, sale, handling and use of fireworks are prohibited.

EXCEPTIONS:

Storage and handling of fireworks as allowed in Section 3304. Delete in its entirety.

Manufacture, assembly and testing of fireworks as allowed in Section 3305.” Delete in its entirety.

The use of fireworks for fireworks displays as allowed in Section 5608. (Remains as written)

The possession, storage, sale , handling and use of specific types of Division 1.4G fireworks where allowed by applicable laws, ordinances and regulations, provided such fireworks comply with CPSC 16 CFR, Parts 1500 and 1507, and DOTn49CFRn Parts 100-185, for consumer fireworks.” Delete in its entirety.”

“**Section B105.1 One- and two-family dwellings.** The minimum fire-flow requirements for one- and two-family dwellings having a fire-flow calculation area which does not exceed 3,600 square feet (344.5 m²) shall be 1,000 gallons per minute (3785.4 L/min). Fire flow and flow duration for dwellings having a fire-flow calculation area in excess of 3,600 square feet (344.5 m²) shall not be less than that specified in Table B105.1.”

“EXCEPTIONS: Regardless of the fire-flow calculation area, the following exceptions shall apply:

i. For new subdivisions, a reduction in required fire flow of 50 percent is allowed when the building is provided with an approved automatic sprinkler system installed in accordance with Section 903.1.1, 903.1.2 or 903.3.1.3.

ii. When sufficient fire flow exists and hydrant spacing meets the requirements in Appendix C fire sprinklers are not required.”

(3) Deletions. The following section shall be deleted from the IFC.

Section 108, Board of appeals.

Section 7. Article 8 of Chapter 18 of the Greenwood Village Municipal Code is hereby repealed in its entirety and reenacted to read as follows:

ARTICLE 8

Energy Conservation Code

Sec. 18-8-10. Adoption.

Pursuant to Title 31, Article 16, Part 2, C.R.S., there is adopted as the energy conservation code for the City, by reference thereto, the International Energy Conservation Code, 2012 edition, ("IECC"), published by the International Code Council, 500 New Jersey Avenue, NW, 6th floor, Washington, DC 20001, to regulate the erection, construction, enlargement, alteration, repair, moving, removal, demolition, conversion, occupancy, equipment use, height, area and maintenance of all building and structures and building services equipment of all buildings and structures in the City, and with respect to the issuance of permits and collection of fees therefor, except and explicitly for the amendments, deletions and exclusions in Section 18-8-30 below.

Sec. 18-8-20. Copy on file.

At least one copy of the International Energy Conservation Code shall be on file in the office of the City Clerk and may be inspected by any interested person during regular business hours.

Sec. 18-8-30. Amendments.

The 2012 IECC is hereby modified by the following additions, amendments and deletions:

(1) Additions. The following provision shall be added to the IECC

“The Chief Building Official shall have the authority to approve all building, plumbing, mechanical, and other materials and applications, as necessary, in order to remain current with approved applications and installation methods as approved by nationally recognized testing and approval agencies.”

(2) Amendments. The following sections of the IECC are amended to read as follows:

“Section C101.2 Scope.

This code applies to commercial buildings and the buildings sites and associated systems and equipment. Commercial energy conservation regulations shall not be applied to existing commercial buildings.”

“Section C402.4.7 Vestibules.

All A building entrances shall be protected with an enclosed vestibule, with all doors opening into and out of the vestibule equipped with self-closing devices.”

(3) Deletions. The following section shall be deleted from the IECC.

Section 101.4.3 Additions, alterations, renovations or repairs.

Section 8. A new Article 9 is hereby added to Chapter 18 of the Greenwood Village Municipal Code to read as follows:

ARTICLE 9

Swimming Pool and Spa Code

Sec. 18-9-10. Adoption.

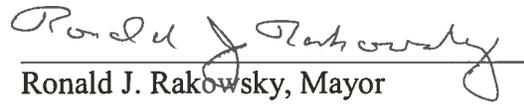
The International Swimming Pool and Spa Code (ISPSC), 2012 edition, as published by the International Code Council (ICC), 500 New Jersey Avenue, NW, 6th Floor, Washington, DC 20001, is hereby adopted by reference and incorporated into this Chapter as though fully set forth herein. Except as otherwise provided hereafter, such code is adopted in full, including the outline of contents, index and appendices contained therein.

Sec. 18-9-20. Copy on file.

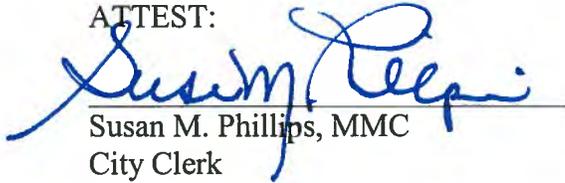
At least one copy of the International Swimming Pools and Spa Code shall be on file in the office of the City Clerk and may be inspected by any interested person during regular business hours.

Section 9. Effective Date. This ordinance shall take effect January 1, 2014.

INTRODUCED AND APPROVED ON FIRST READING ON THE 4th DAY OF NOVEMBER, 2013, AND ORDERED PUBLISHED IN THE VILLAGER.

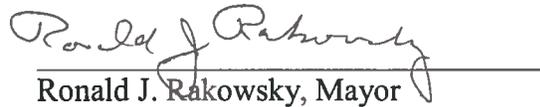

Ronald J. Rakowsky, Mayor

ATTEST:

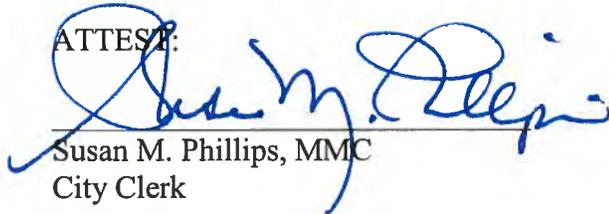

Susan M. Phillips, MMC
City Clerk



INTRODUCED AND APPROVED ON SECOND READING ON THE 18th DAY OF NOVEMBER, 2013, AND ORDERED PUBLISHED BY REFERENCE TO TITLE ONLY.


Ronald J. Rakowsky, Mayor

ATTEST:


Susan M. Phillips, MMC
City Clerk



EFFECTIVE: January 1, 2014