

1 **BILL NO. 2020-**

2 **ORDINANCE NO. \_\_\_\_\_**

3 AN ORDINANCE TO AMEND THE 2018 UNIFORM PLUMBING CODE AND THE SOUTHERN  
4 NEVADA AMENDMENTS TO THE 2018 UNIFORM PLUMBING CODE, AS ADOPTED BY THE  
5 CITY, TO MAKE ADJUSTMENTS REGARDING PLUMBING FIXTURES TO BE CONSISTENT WITH  
6 STATE LAW, TO MAKE VARIOUS OTHER ADJUSTMENTS TO REFLECT CITY-SPECIFIC  
7 CONDITIONS, AND TO PROVIDE FOR OTHER RELATED MATTERS.

6 Sponsored by: Councilwoman Michele Fiore

Summary: Amends the 2018 Uniform Plumbing  
Code and the Southern Nevada Amendments to  
the 2018 Uniform Plumbing Code, as adopted by  
the City, to make adjustments regarding plumbing  
fixtures to be consistent with State law and to  
make various other adjustments to reflect City-  
specific conditions.

10 THE CITY COUNCIL OF THE CITY OF LAS VEGAS DOES HEREBY ORDAIN AS  
11 FOLLOWS:

12 SECTION 1: The 2018 Uniform Plumbing Code, which was adopted by Ordinance No.  
13 6638, is hereby amended as set forth in Sections 2 to 6, inclusive, and Section 9 of this Ordinance. Deleted  
14 material is shown by strikethrough or by a reference to complete deletion, and new material is shown by  
15 underlining.

16 SECTION 2: Section 401.2 of the Uniform Plumbing Code is amended by adding a new  
17 Section 401.2.1, so that Section 401.2 reads as follows:

18 **401.2 Quality of Fixtures.** Plumbing fixtures shall be constructed of dense, durable, non-absorbent materials  
19 shall have smooth, impervious surfaces, free from unnecessary concealed fouling surfaces.

20 **401.2.1 WaterSense Program.** Water closets, urinals and faucets installed in every residential,  
21 commercial, or industrial structure on which construction, begins on or after January 1, 2020 shall  
22 be certified to EPA WaterSense – 2007 High Efficiency Lavatory Faucet Specification, EPA  
23 WaterSense – 2009 Specification for Flushing Urinals, EPA WaterSense – 2014 Specification for  
24 Tank-Type Toilets, as applicable.

25 SECTION 3: Section 407.4 of the Uniform Plumbing Code is amended to read as follows:  
26 **407.4 Transient Public Lavatories.** Self-closing or metering faucets shall be installed on lavatories ~~intended~~

1 ~~to service transient public, such as those in, but not limited to service stations, train stations, airports,~~  
2 ~~restaurant and convention halls. in public restrooms. Multiple faucets that are activated from a single point~~  
3 ~~shall not be installed.~~

4 SECTION 4: Section 612.0 of the Uniform Plumbing Code, along with all its constituent  
5 subparts, is deleted. Refer to the International Residential Code in lieu of Section 612.0.

6 SECTION 5: Section 710 of the Uniform Plumbing Code is amended by adding to the end  
7 of that section a new Section 710.14, reading as follows:

8 **710.14 Elevator Pit Sump Pump Discharge Locations.**

9 **710.14.1. Elevator sump pump discharge piping shall discharge to one of the following locations:**

- 10 1. To a sand oil interceptor in accordance with Section 1010.0.
- 11 2. To the exterior of the building with a placard or signage at the point of discharge that reads as  
12 follows; “Caution: Non Potable, Do Not Drink. Elevator Sump Pump Discharge Only. Drain To Suitable  
13 Container for Proper Offsite Disposal”. The point of discharge on the exterior of the building shall be  
14 provided with a shut off valve and a threaded cap for standard hose connection. Hose bibs are not permitted  
15 to be used as a shut off valve.

16 SECTION 6: Chapter 9 of the Uniform Plumbing Code is amended by adding to the end  
17 of that chapter a new Section 913.0, reading as follows:

18 **913.0 Air Admittance Valves**

19 **913.1 General.** Vent systems utilizing air admittance valves shall comply with this section. Stack-type air  
20 admittance valves shall conform to ASSE 1050. Individual and branch-type air admittance valves shall  
21 conform to ASSE 1051. Air admittance valves shall meet all performance standards of: ASSE 1050, ASSE  
22 1051.

23 **913.2 Installation.** The valves shall be installed in accordance with the requirements of this section and the  
24 manufacturer’s instructions. Air admittance valves shall be installed after the DWV testing required by  
25 Section 318.0 or 712.0 has been performed.

26 **913.3 Where permitted.** Individual, branch and circuit vents shall be permitted to terminate with a

1 connection to an individual or branch-type air admittance valve in accordance with Section 913.3.1. *Stack*  
2 *vents* and *vent stacks* shall be permitted to terminate to stack-type air admittance valves in accordance with  
3 Section 913.3.2.

4 **913.3.1 Horizontal branches.** Individual and branch-type air admittance valves shall vent only fixtures that  
5 are on the same floor level and connect to a *horizontal branch drain*. Where the *horizontal branch* is located  
6 more than four branch intervals from the top of the stack, the *horizontal branch* shall be provided with a relief  
7 vent that shall connect to a vent stack or stack vent, or extend outdoors to the open air. The relief vent shall  
8 connect to the *horizontal branch drain* between the stack and the most downstream *fixture drain* connected  
9 to the *horizontal branch drain*. The relief vent shall be sized in accordance with Table 703.2 and installed  
10 in accordance with Section 905. The relief vent shall be permitted to serve as the vent for other fixtures.

11 **913.3.2 Stack.** Stack-type air admittance valves shall be prohibited from serving as the vent terminal for  
12 *vent stacks* or *stack vents* that serve drainage *stacks* having more than six *branch intervals*.

13 **913.4 Location.** Individual and branch-type air admittance valves shall be located not less than 4 inches  
14 (102 mm) above the *horizontal branch drain* or *fixture drain* being vented. Stack-type air admittance valves  
15 shall be located not less than 6 inches (152 mm) above the *flood level rim* of the highest fixture being vented.  
16 The air admittance valve shall be located within the maximum *developed length* permitted for the vent. The  
17 air admittance valve shall be installed not less than 6 inches (152 mm) above insulation materials.

18 **913.5 Access and ventilation.** Access shall be provided to all air admittance valves. Such valves shall be  
19 installed in a location that allows air to enter the valve.

20 **913.6 Size.** The air admittance valve shall be rated in accordance with the standard for the size of the vent  
21 to which the valve is connected.

22 **913.7 Vent required.** Within each plumbing system, the drainage piping of each building and each  
23 connection to public sewer or a private sewage disposal system shall be vented by means of one or more vent  
24 pipes, the aggregate cross-sectional area of which shall be not less than that of the largest required building  
25 sewer and shall extend outdoors to the open air.

26 **913.8 Prohibited installations.** Air admittance valves shall not be installed in non-neutralized special waste

1 systems. Air admittance valves shall not be located in spaces utilized as supply or return air plenums. Air  
2 admittance valves shall not be used to vent sumps or tanks except where the vent system for the sump or tank  
3 has been designed by an engineer. Air admittance valves shall not be installed on outdoor vent terminals for  
4 the sole purpose of reducing clearances to gravity air intakes or mechanical air intakes.

5 SECTION 7: The document entitled “Southern Nevada Amendments to the 2018 Uniform  
6 Plumbing Code,” which was adopted by Ordinance No. 6638, is hereby amended as set forth in Section 8 of  
7 this Ordinance.

8 SECTION 8: All material in the Southern Nevada Amendments pertaining to Section  
9 1009.0 through Section 1017.2 is deleted in its entirety and replaced by the following:

10 *Delete Sections 1009.0 through 1017.2; retaining Section 1012, 1014.2 through 1014.2.2 and Table*  
11 *1014.3.6; adding new Section 1009.0, 1010.0, 1011.0 as follows:*

12 **1009.0 Gravity and Hydromechanical Grease Interceptors**

13 **1009.1 General.** A grease interceptor shall be provided for proper handling of liquid wastes containing  
14 grease. A grease interceptor as described in these standards shall be installed in any business establishment  
15 with kitchen facilities including restaurants, cafes, lunch counters, cafeterias, supermarkets, convenience  
16 stores, bakeries, bars and clubs, hotels, hospitals, sanitariums, factory or school kitchens, any other  
17 commercial establishment where grease may be introduced into the sewer system, or any business  
18 establishment as regulated by Title 14 of the City of Las Vegas Municipal Code.

19 Special consideration shall be given to every fish, fowl and animal slaughterhouse or establishment; every  
20 fish, fowl and meat packing or curing establishment; every soap factory, tallow rendering, fat rendering and  
21 hide curing establishment; or any other establishment from which considerable amounts of grease are likely  
22 to be discharged into the sewer system. Written application describing exact operation and anticipated  
23 volumes of grease shall be made to the Sanitation Authority Having Jurisdiction to determine the standards  
24 for such systems.

25 **1009.2 Fixtures.** The waste discharge from fixtures and equipment which may contain grease from the  
26 businesses set out previously shall be drained through a grease interceptor or grease interceptors. Fixtures

1 such as, but not limited to, the following are included: scullery sinks, pot and pan sinks, dishwashing  
2 machines, soup kettles and similar cooking equipment, trash compactors, floor drains in grease generating  
3 areas, trash can wash areas, or any other fixture as regulated by Title 14 of the City of Las Vegas Municipal  
4 Code.

5 **NOTE:** Title 14 of the City of Las Vegas Municipal Code establishes requirements for commercial  
6 businesses to provide a grease interceptor where there is a potential to discharge materials that can  
7 float or settle in the sanitary sewer systems. This applies to facilities where preparation,  
8 manufacturing, processing of food or washing/sanitizing of dishes or equipment occurs.  
9 Establishments may include, but not limited to, restaurants, cafes, fast food outlets, pizza outlets,  
10 delicatessens, sandwich shops, coffee shops, smoothie/frozen yogurt shops, schools, nursing homes  
11 and other facilities that prepare, service or otherwise make food, or the like, available for  
12 consumption.

13 **1009.3 Prohibited fixtures.** The waste lines from toilets, urinals, and other similar fixtures shall not drain  
14 through a grease interceptor.

15 **1009.4 Location.**

16 1. Grease interceptors shall be so installed and connected that they shall be at all times easily accessible for  
17 inspection, cleaning and removal of the intercepted grease.

18 2. Grease interceptors shall be placed as close as practical to the fixtures served.

19 3. Grease interceptors shall be located on the exterior of buildings. The location of indoor grease interceptors  
20 must first be approved by the Southern Nevada Health District prior to installation.

21 4. Grease interceptors shall be so located as to be accessible for service without the use of ladders or the  
22 removal of bulky equipment.

23 5. The location of all grease interceptors shall be shown on the approved plans.

24 6. Each grease interceptor shall serve only one business establishment. Multiple business connections to a  
25 single interceptor are not permitted unless approved by the sanitation authority in writing. An Alternate  
26 Means and Methods Request (AMMR) is not required with sanitation authority approval.

1 7. An accessible hose bib shall be located within 25 feet (7620 mm) of every grease interceptor.

2 **1009.5 Size and Design.**

3 1. Gravity grease interceptors shall be sized in accordance with Table 1014.3.6 and shall not be more than  
4 one size larger than required in Table 1014.3.6.

5 **Exception:** Business establishments with eight (8) grease waste drainage fixture units or less may  
6 install an in-ground hydromechanical grease interceptor in accordance with Sections 1014.2,  
7 1014.2.1 and 1014.2.2. Only one hydromechanical grease interceptor permitted per business  
8 establishment. Floor drains that do not receive the discharge from other fixtures and not used as an  
9 indirect waste receptor may be considered an emergency floor drain per Table 702.1.

10 **NOTE:** For situations not covered by this code or projects with engineering constraints a Grease Interceptor  
11 Alternative Method of Design application request shall be submitted to the Building Official for approval.  
12 Such designs shall be prepared by a Nevada Registered Engineer.

13 2. All grease interceptors shall have a minimum of two compartments with a minimum of 3 inch (76.2 mm)  
14 diameter fittings designed for grease retention. The fittings shall be installed in the following manner: A  
15 sanitary tee shall be installed at the inlet, a sanitary tee on the inlet side of the interceptor baffle, and a sanitary  
16 tee installed at the outlet.

17 3. There shall be adequate access for cleaning all areas of the separator. A minimum of one access point into  
18 each compartment within the separator shall be provided. In addition, no access points shall be further apart  
19 than 10 feet (3048 mm) regardless of the number of compartments. Separator covers shall be of gas-tight  
20 construction. Interceptor covers shall have a minimum opening dimension of twenty (20) inches (508 mm)  
21 in diameter.

22 4. All waste shall enter the grease interceptor through the inlet pipe.

23 5. Grease interceptors shall be so designed that they will not become air bound. Each interceptor shall be  
24 properly vented with a relief vent located on the outlet side of the interceptor.

25 6. Cleanouts shall be installed in the drainage piping inlet and outlet side of each grease interceptor and the  
26 outlet side of each sample box.

1 7. Each fixture discharging into a grease interceptor shall be individually trapped and vented in an approved  
2 manner.

3 8. Each grease interceptor shall have an approved water seal of not less than two (2) inches (50.8 mm) in  
4 depth or the diameter of its outlet, whichever is greater.

5 9. When grease interceptors are located in areas of pedestrian or vehicle travel, the design of the interceptor  
6 shall be adequate to support the imposed load. Structural calculations to verify its adequacy may be required.

7 10. A sample box shall be provided on the outlet side of each grease interceptor down stream of the required  
8 cleanout and vent.

9 **1009.6 Water Test.** A water test shall be applied to the level of the top of the interceptor inlet opening  
10 through the outlet opening or discharge side of the sample box. Interceptors shall show no leakage from  
11 section seams, pinholes or other imperfections. Any leakage below this level is cause for rejection.

12 **1. Backfill.** Interceptors shall not be backfilled until the inspection has been made to verify there are  
13 no leaks.

14 **1010.0 Sand/Oil Interceptors.**

15 **1010.1 Where Required.** An interceptor shall be provided for the proper handling of liquid wastes  
16 containing oil (of petroleum origin), sand, inert solids or any other similar substances.

17 **NOTE:** A sand/oil interceptor is not intended for the disposal of hazardous waste or as a backup  
18 system for accidental spills.

19 Interceptors as described in these standards shall be installed in, but not limited to, the following locations:  
20 car washes, motor vehicle, boat or airplane storage yards, gasoline and diesel service stations, repair garages  
21 or any other similar facility which may introduce sand and oil into the sewer system.

22 Submittal of a written application describing the exact facility operation and the types and anticipated  
23 volumes of waste to be generated may be required by the building official.

24 Floor and/or trench drain(s) shall be installed in enclosed parking garages, motor vehicle garages, repair  
25 garages, or other locations and establishments as otherwise required by the Building Official. Such drains  
26 shall discharge to an approved sand oil interceptor. The floor shall be sloped to the drain(s) to allow for

1 positive drainage in such a way that will not allow any spills or liquids from routine cleaning to leave the  
2 footprint of the building not allowing drainage to the public storm water system.

3 **1010.2 Fixtures.** The waste discharge from fixtures and equipment which may contain sand, oil-based waste  
4 and inert solids shall drain only through an interceptor. This requirement includes, but is not limited to, the  
5 following: floor drains, floor sinks, special processing equipment, trench drains, and area drains.

6 **1010.3 Prohibited Fixtures.** The waste line from toilets, urinals, lavatories and other similar fixtures, which  
7 discharge domestic wastes only, shall not drain through the interceptor.

8 **1010.4 Location.**

9 1. Sand/oil interceptors shall be so installed and connected that they shall be at all times accessible for  
10 inspection, cleaning and removal of the intercepted waste.

11 2. Sand/oil interceptors shall be placed as close as practical to the fixtures served.

12 3. Sand/oil interceptors shall be located on the exterior of buildings unless specifically approved otherwise  
13 in writing by the sanitation authority.

14 4. Sand/oil interceptors shall be located as to be accessible for service without the use of ladders or the  
15 removal of bulky equipment.

16 5. The location of all sand/oil interceptors shall be shown on the approved plans.

17 6. Each sand/ oil interceptor shall serve only one business establishment. Multiple business connections to a  
18 single sand/ oil interceptor are not permitted unless approved by the sanitation authority in writing. An  
19 Alternate Means and Methods Request (AMMR) is not required with sanitation authority approval.

20 **1010.5 Size and Design.**

21 1. All sand/oil interceptors shall be a minimum of three hundred (300) gallons (40 cubic feet) (1136 l) of total  
22 liquid capacity with a minimum floating liquid capacity of 55 gallons (208 l).

23 2. All sand/oil interceptors shall have a minimum of two compartments with a minimum of 3 inch (76.2 mm)  
24 diameter fittings designed for retention. The fittings shall be installed in the following manner: a 90° long  
25 sweep shall be installed at the interceptor inlet, a sanitary tee shall be installed on the inlet side of the  
26 interceptor baffle, and a sanitary tee installed at the outlet.



1 3. There shall be adequate access for cleaning all areas of the separator. A minimum of one (1) access point  
2 into each compartment within the separator shall be provided. In addition, no access points shall be further  
3 apart than ten (10) feet (3048 mm) regardless of number of compartments. Access covers shall have a  
4 minimum opening dimension of twenty (20) inches (508 mm) in diameter. Separator covers shall be of gas-  
5 tight construction.

6 4. The sand/oil interceptor shall be properly vented and designed to prevent it from becoming air bound in  
7 accordance with this code.

8 5. Each business establishment for which a sand/oil interceptor is required shall be provided with an  
9 interceptor which shall serve that establishment only and no others. Separate owners or lessees within a large  
10 business or establishment shall require separate interceptors.

11 6. Each sand/oil interceptor shall have a water seal of not less than six (6) inches (152 mm).

12 7. When separators are located in areas of foot or vehicle traffic, the design of the separator shall be adequate  
13 for the imposed load. Structural calculations performed by a Nevada Registered Engineer to verify adequacy  
14 may be required.

15 8. Any private or public wash rack or slab used for cleaning machinery or machine parts, shall drain to a  
16 sand/oil separator, and shall be adequately protected against storm or surface water intrusion.

17 9. Design standards other than those listed above may be acceptable. Redwood baffles shall not be used for  
18 new or existing interceptors. Any alternate design shall be prepared by a Nevada Registered Engineer and  
19 submitted for review and approval by the sanitation authority and the building official.

20 10. Cleanouts shall be installed in the drainage piping inlet and outlet side of each sand/oil interceptor and  
21 the outlet side of each sample box.

22 11. A sample box shall be provided on the outlet side of the interceptor down stream of the required cleanout  
23 and vent.

24 **1010.6 Water Test.** A water test shall be applied to the level of the top of the interceptor inlet opening  
25 through the outlet opening or discharge side of the sample box. Interceptors shall show no leakage from  
26 section seams, pinholes or other imperfections. Any leakage below this level is cause for rejection.

1 1. Backfill. Interceptors shall not be backfilled until the inspection has been made to verify there are  
2 no leaks.

3 **1011.0 Maintenance of interceptors.**

4 **1011.1** Grease and sand/oil interceptors shall be maintained in efficient operating condition by periodic  
5 removal of the accumulated grease or sand/oil. No such collected grease, sand/oil, or any material collected  
6 from the interceptor shall be introduced into any drainage piping, public or private sewers. The materials  
7 removed from interceptors shall be handled and disposed of in a proper manner in accordance with published  
8 health district and sanitation authority requirements. Illegal dumping of waste into the sewer shall not be  
9 allowed.

10 **1011.2** Maintenance records for each installed interceptor shall be maintained on the premises at all times  
11 and presented to a duly authorized agent of the sanitation authority upon request.

12 **1011.3** The Authority Having Jurisdiction shall have the authority to mandate the installation of additional  
13 equipment or devices and enforce a maintenance program.

14 **1011.4 Abandoned interceptors.** Abandoned interceptors shall be cleaned and filled as required by Section  
15 722.0 of the Plumbing Code for abandoned sewers and sewage disposal facilities.

16 **1011.5 Existing Buildings.** Whenever an existing building has a change in use which requires an interceptor  
17 or whenever there is an increase in the total number of drainage fixture units served by an existing interceptor,  
18 one or more interceptors shall be installed in the drainage system serving the building meeting the  
19 requirements of Sections 1009 and 1010.

20 *Add Sections 1014.2.3 and 1014.2.4, as follows:*

21 **1014.2.3 Sample Box.** A sample box shall be provided on the outlet side of each hydromechanical grease  
22 interceptor.

23 **1014.2.4 Cleanouts.** A cleanout shall be provided on the outlet side of each sample box.

24 SECTION 9: Chapter 17 of the Uniform Plumbing Code is amended by adding to Table  
25 1701.1 the following two standards:

26 ASSE 1050 – Performance Requirements for Stack Air Admittance Valves for Sanitary Drainage Systems.

1 ASSE 1051 – Performance Requirements for Individual and Branch Type Air Admittance Valves for Sanitary  
2 Drainage Systems.

3                   SECTION 10: If any section, subsection, subdivision, paragraph, sentence, clause or phrase  
4 in this ordinance or any part thereof is for any reason held to be unconstitutional or invalid or ineffective by  
5 any court of competent jurisdiction, such decision shall not affect the validity or effectiveness of the  
6 remaining portions of this ordinance or any part thereof. The City Council of the City of Las Vegas hereby  
7 declares that it would have passed each section, subsection, subdivision, paragraph, sentence, clause or phrase  
8 thereof irrespective of the fact that any one or more sections, subsections, subdivisions, paragraphs,  
9 sentences, clauses or phrases be declared unconstitutional, invalid or ineffective.

10                   SECTION 11: Whenever in this ordinance any act is prohibited or is made or declared to  
11 be unlawful or an offense or a misdemeanor, or whenever in this ordinance the doing of any act is required  
12 or the failure to do any act is made or declared to be unlawful or an offense or a misdemeanor, the doing of  
13 such prohibited act or the failure to do any such required act shall constitute a misdemeanor and upon  
14 conviction thereof, shall be punished by a fine of not more than \$1,000.00 or by imprisonment for a term of  
15 not more than six months, or by any combination of such fine and imprisonment. Any day of any violation  
16 of this ordinance shall constitute a separate offense.

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SECTION 12: All ordinances or parts of ordinances or sections, subsections, phrases, sentences, clauses or paragraphs contained in the Municipal Code of the City of Las Vegas, Nevada, 1983 Edition, in conflict herewith are hereby repealed.

PASSED, ADOPTED and APPROVED this \_\_\_\_ day of \_\_\_\_\_, 2020.

APPROVED:

By \_\_\_\_\_  
CAROLYN G. GOODMAN, Mayor

ATTEST:

\_\_\_\_\_  
LUANN D. HOLMES, MMC  
City Clerk

APPROVED AS TO FORM:

\_\_\_\_\_  
Val Steed, Date  
Deputy City Attorney

1 The above and foregoing ordinance was first proposed and read by title to the City Council on the \_\_\_\_ day  
2 of \_\_\_\_\_, 2020, and referred to a committee for recommendation, the committee being  
3 composed of the following members \_\_\_\_\_;  
4 thereafter the said committee reported favorably on said ordinance on the \_\_\_\_ day of  
5 \_\_\_\_\_, 2020, which was a \_\_\_\_\_ meeting of said Council; that at said  
6 \_\_\_\_\_ meeting, the proposed ordinance was read by title to the City Council as first  
7 introduced and adopted by the following vote:

8 VOTING "AYE": \_\_\_\_\_

9 VOTING "NAY": \_\_\_\_\_

10 ABSENT: \_\_\_\_\_

11 APPROVED:

12  
13 By \_\_\_\_\_  
CAROLYN G. GOODMAN, Mayor

14 ATTEST:

15 \_\_\_\_\_  
16 LUANN D. HOLMES, MMC  
City Clerk

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