

ORDINANCE NO. \_\_\_\_\_

1 AN ORDINANCE amending Chapter 25.03 of the Lincoln Municipal Code, the  
2 Uniform Mechanical Code, by amending Section 25.03.060 to provide for online permit  
3 applications; by amending Section 25.03.080 to provide refund amounts for unused permits;  
4 amending Section 25.03.090 to change the permit fee for unit heaters and infrared pipe heating  
5 systems; amending Section 25.03.140 to add a definition for “inactive Master HVAC contractor” and  
6 to provide that a journeyman HVAC technician may supervise a maximum of 5 apprentices on a job  
7 site; amending Section 25.03.170 to require corporate master HVAC contractors to be on duty during  
8 work; amending Section 25.03.190 to increase registration fees; adding a new section numbered  
9 25.03.195 to require continuing education; amending Section 25.03.290 to prohibit the installation  
10 of fuel burning equipment in a bathroom unless it is replacing previously approved installations;  
11 amending Section 25.03.320 to eliminate hood manufacturer air flow request standards and allowing  
12 for an opening area; amending Section 25.03.330 to eliminate ventilation of certain bathrooms with  
13 a recirculating fan; adding a new section numbered 25.03.335 to provide for residential kitchen  
14 exhaust; amending Section 25.03.340 to require a minimum height for vertical laundry dryer exhaust  
15 duct inlets; adding a new section numbered 25.03.365 to require that certain horizontal grease duct  
16 systems have cleanout openings; adding a new section 25.03.367 to require air velocity standards  
17 for Type I and Type II hoods; amending Section 25.03.400 to add a reference to Table 5-E relating  
18 to bath and laundry room duct limitations; for amending Section 25.03.410 requiring ducts in attics  
19 and crawl spaces to be sealed by certain means; amending Section 25.03.430 to delete Sections 701.1  
20 and 701.3 from the Uniform Mechanical Code; repealing Section 25.03.440 regarding combustion

1 air openings and fire dampers; amending Section 25.03.570 to increase gas log installer registration  
2 fees; and repealing Sections 25.03.060, 25.03.080, 25.03.090, 25.03.140, 25.03.170, 25.03.190,  
3 25.03.290, 25.03.320, 25.03.330, 25.03.340, 25.03.400, 25.03.410, 25.03.430, and 25.03.570 of the  
4 Lincoln Municipal Code as hitherto existing.

5 BE IT ORDAINED by the City Council of the City of Lincoln, Nebraska:

6 Section 1. That Section 25.03.060 of the Lincoln Municipal Code be amended to read  
7 as follows:

8 **25.03.060 Section 112 Amended; Permits.**

9 Section 112 of the Uniform Mechanical Code is amended to read as follows:

10 **112.1 Permits Required.** It shall be unlawful for any person other than a registered master  
11 HVAC contractor, journeyman HVAC technician, apprentice HVAC technician, or home owner,  
12 under certain conditions as defined in Section 25.03.240 herein, to make any installation, alteration,  
13 repair, replacement, or remodel of any heating, ventilating, cooling, or refrigeration system or  
14 equipment regulated in this code. It shall be unlawful for any registered master HVAC contractor,  
15 journeyman HVAC technician, apprentice HVAC technician, or home owner, under certain  
16 conditions as defined in Section 25.03.240 herein, to make any installation, alteration, repair,  
17 replacement, or remodel of any heating, ventilating, cooling, or refrigeration system or equipment  
18 regulated in this code except as permitted in subsection 112.2 of this section or cause the same to  
19 be done without first obtaining a separate mechanical permit for each separate building or structure.

20 **112.1.1 Online Permit Application.** A permit may be obtained online through  
21 the Building Official's electronic permit application form. The Building Official shall establish and  
22 maintain written procedures and requirements for issuing the Master HVAC contractor a unique  
23 personal identification number to be used in combination with an authenticated personal computer  
24 under the exclusive control of the Master HVAC contractor. The written procedures shall list the  
25 acceptable verification or authentication services, payment and use of which shall be the sole  
26 responsibility of the Master HVAC contractor. If a permit is applied for electronically, the applicant  
27 shall affix a signature by use of a digital or electronic signature that complies with the requirements  
28 of state law. The use of a digital or electronic signature shall have the same force and effect as the

1 use of a manual signature and the Master HVAC contractor shall be responsible for all aspects of the  
2 proper use or misuse of either the electronic signature or the unique personal identification number.

3 **112.2 Exempt Work.** A mechanical permit shall not be required for the following:

- 4 1. Any portable heating appliance, portable ventilating equipment, portable cooling unit, or  
5 portable evaporative cooler.
- 6 2. Any closed system of steam, hot, or chilled water piping within any heating or cooling  
7 equipment regulated by this code;
- 8 3. Replacement of any component, part, or assembly of an appliance which does not alter  
9 its original approval and which complies with the applicable requirements of this code;
- 10 4. Any refrigeration equipment which is a part of the equipment for which a permit has been  
11 issued pursuant to the requirements of this code;
- 12 5. Any unit refrigeration system;
- 13 6. Replacement of a connector vent.

14 **112.3** Exemption from the permit requirements of this code shall not be deemed to grant  
15 authorization for work to be done in violation of the provisions of this code or other laws or  
16 ordinances of this jurisdiction.

17 Section 2. That Section 25.03.080 of the Lincoln Municipal Code be amended to read  
18 as follows:

19 **25.03.080 Section 114.4.1 Amended; Permit Issuance; Expiration.**

20 Section 114.4.1 of the Uniform Mechanical Code is amended to read as follows:

21 **114.4.1 Expiration.** Every permit issued by the Building Official shall under these  
22 provisions expire by limitation and become null and void if the building or work authorized by such  
23 permit is not commenced within 120 days from the date of such permit, or if the building or work  
24 authorized by such permit is suspended or abandoned at any time after the work has commenced for  
25 a period of 180 days. Before such work can be recommenced, a new permit shall be first obtained  
26 so to do, and the fee thereof shall be one-half the amount required for a new permit for such work;  
27 provided, no changes have been made or will be made in the original plans and specifications for  
28 such work; and, provided further, that such suspension or abandonment has not exceeded one year.

29 There shall be no refunds or credits given on permits which have expired. Permit holders  
30 returning an unused permit prior to the expiration date of the permit shall be limited to a maximum

1 refund amounting to two-thirds of the original fee, ~~with the remaining one-third to be used to pay~~  
2 ~~in part the cost of processing the permit if the original fee is \$75.00 or less.~~ For permits where the  
3 original fee was greater than \$75.00, a \$25.00 processing fee will be levied and the remaining fee  
4 amount will be refunded to the permit holder.

5 Section 3. That Section 25.03.090 of the Lincoln Municipal Code be amended to read  
6 as follows:

7 **25.03.090 Section 115 Amended; Permit Fees.**

8 Section 115 of the Uniform Mechanical Code is amended to read as follows:

9 **Section 115.** Any person desiring a permit required by this code shall, at the time of filing  
10 an application therefor, pay a fee to the Building Official as set forth below.

11 Where work for which a permit is required by this code is started or proceeded with prior to  
12 obtaining said permit, the fees hereinafter specified shall be doubled; but the payment of such double  
13 fees shall not relieve any person or persons from fully complying with the requirements of this code  
14 in the execution of the work or any other penalties prescribed herein.

15 **HEATING, VENTILATING, & COOLING**  
16 **SYSTEMS PERMIT FEE SCHEDULE**

17	Minimum Permit Fee .....	\$15.00
18	Installation or replacement of any type of heating equipment:	
19	Per unit .....	25.00
20	Installation or replacement of any type of cooling equipment:	
21	Per unit .....	20.00
22	Installation or replacement of any type of heat pump.	
23	(Fee for furnace or air handler is separate, if installed)	
24	Per unit .....	20.00
25	Installation or replacement of any type of solar equipment	
26	interconnected with heating or cooling equipment per	
27	unit (does not include back-up heating or cooling	
28	equipment) .....	20.00
29	** Installation of air handling volume or mixing boxes (each) .....	10.00
30	Installation of exhaust systems, per Chapter 5, (each) .....	5.00
31	Installation of clothes dryer vent (each) .....	5.00
32	For each ventilation fan connected to a single duct .....	5.00

1	Air-handling units not in conjunction with any of the above and	
2	with or without steam, water, or DX coils:	
3	Per unit (commercial or residential) . . . . .	25.00
4	Installation of vent or chimney liner not in conjunction with	
5	the installation of any of the above . . . . .	20.00
6	Alteration of existing vent or duct work . . . . .	20.00
7	Installation of circulating heaters . . . . .	25.00
8	Installation or replacement of conversion burners . . . . .	25.00
9	Installation or replacement of any <u>unit heater or infrared pipe heating system</u> . . . . .	<del>35.00</del> 30.00
10	Installation of a ventilation system which is not a portion of	
11	any heating or cooling system authorized by permit:	
12	Per unit . . . . .	45.00
13	<del>Installation of unit heater . . . . .</del>	<del>25.00</del>
14	Installation of gas or decorative fireplace . . . . .	45.00
15	Installation of hood with or without mechanical exhaust	
16	including the ducts for such hood (per hood) . . . . .	125.00
17	Underground duct work (per system) . . . . .	20.00
18	Reinspection fee (wrong address, equipment that does not pass	
19	inspection, incomplete work, equipment inaccessibility,	
20	etc.) . . . . .	25.00
21	<b>115.1 General.</b> Deleted.	
22	<b>115.2 Permit Fees.</b> Deleted.	
23	<b>115.3 Plan Review Fees.</b> Deleted.	
24	<b>115.3.1 Separate fees for plan review.</b> Deleted.	
25	<b>115.3.2 Incomplete or Changed Plans.</b> Deleted.	
26	<b>115.4 Expiration of Plan Review.</b> Deleted.	
27	<b>115.5 Investigation Fees: Work Without a Permit.</b> Deleted.	
28	<b>115.6 Fee Refunds.</b> Deleted	
29	<b>115.6.1 Building permit fee refund.</b> Deleted.	
30	<b>115.6.2 Plan review fee refund.</b> Deleted.	
31	<b>115.6.3 Refund application.</b> Deleted.	

32                   Section 4. That Section 25.03.140 of the Lincoln Municipal Code be amended to read  
33 as follows:

34 **25.03.140     Registration of Master HVAC Contractors and HVAC Technicians.**

35                   There shall be three classes of registration as follows:

- 36                   (a)     Master HVAC contractor is hereby defined to be any person skilled in the planning,  
37 superintending, and material installation of heating, ventilating, and cooling equipment and their  
38 accessories and who is familiar with the ordinances and regulations governing the same, and who  
39 is competent to install, repair, alter, or remove ~~plumbing or drainage~~ HVAC equipment or gas piping

1 with the full responsibility of supervision, whether doing such work by himself or employing  
2 journeyman HVAC technicians and apprentice HVAC technicians to assist him.

3 Inactive Master HVAC contractor is hereby defined to be any person meeting the  
4 qualifications of a Master HVAC contractor but will not be active as an HVAC contractor and will  
5 not be issued HVAC permits.

6 (b) Journeyman HVAC technician is hereby defined to be any person employed by a  
7 master HVAC contractor, other than an apprentice HVAC technician, who as his principal  
8 occupation is engaged in the practical installation, alteration, repair, or removal of heating,  
9 ventilating, and cooling equipment. A journeyman may supervise a maximum of five apprentices  
10 on a job site.

11 (c) Apprentice HVAC technician is hereby defined to be any person, other than a master  
12 HVAC contractor or journeyman HVAC technician, who as his principal occupation is engaged in  
13 learning and assisting in the installation, repair, alteration, or removal of heating, ventilating and  
14 cooling equipment and their accessories as an employee under the supervision of a master HVAC  
15 contractor or journeyman HVAC technician.

16 No person shall engage in or hold himself out as engaging in the heating, ventilating and  
17 cooling business in the city or within three miles thereof or install any heating, ventilating and  
18 cooling systems or their accessories except as provided for in Section 25.03.060 unless duly  
19 authorized to do so by registration.

20 Section 3. Amending Section 25.03.170 of the Lincoln Municipal Code to read as  
21 follows:

22 **25.03.170 Registration of Corporation, Firm or Partnership.**

23 Any corporation may be registered as a master HVAC contractor in the name of such  
24 corporation, provided such corporation shall have a registered master HVAC contractor as a bona  
25 fide officer or employee of such corporation ~~and~~ who shall at all times be on duty and be in actual  
26 charge of heating, ventilating, and cooling work done by such corporation. The registration certifi-  
27 cate shall also be issued in the name of the person registered as a master HVAC contractor. In the  
28 event such master HVAC contractor shall sever his or her relationship with such corporation as a  
29 bona fide officer or employee, such registered master HVAC contractor must immediately notify the  
30 Building Official and the Board of Examiners, who shall forthwith recommend to the Mayor that the

1 certificate of registration of such corporation be revoked. It shall be unlawful for any corporation  
2 to act, engage in, advertise, or to otherwise represent itself as a master HVAC contractor in the City  
3 of Lincoln unless a bona fide officer or employee of such corporation is duly registered as a master  
4 HVAC contractor as provided in this code.

5 Any firm or partnership may be registered as a master HVAC contractor in the name of such  
6 firm or partnership, provided such firm or partnership shall have a registered master HVAC  
7 contractor as a bona fide member or employee of such firm or partnership and who shall at all times  
8 be on duty and be in actual charge of the heating, ventilating, and cooling work done by such firm  
9 or partnership. The registration certificate shall also be issued in the name of the person registered  
10 as a master HVAC contractor. In the event such master HVAC contractor shall sever his or her  
11 relationship with such firm or partnership as a bona fide member or employee, such registered master  
12 HVAC contractor must immediately notify the Building Official and Board of Examiners, who shall  
13 forthwith recommend to the Mayor that the certificate of registration of such firm or partnership be  
14 revoked. It shall be unlawful for any firm or partnership to act, engage in, advertise, or to otherwise  
15 represent itself as a master HVAC contractor in the City of Lincoln unless a bona fide member or  
16 employee of such firm or partnership is duly registered as a master HVAC contractor as provided  
17 in this code.

18 No corporation, firm, or partnership shall be registered as a master HVAC contractor until  
19 the corporation, firm, or partnership has a registered master HVAC contractor as a bona fide officer,  
20 member, or employee of such corporation, firm, or partnership who shall at all times be on duty and  
21 be in actual charge of heating, ventilating, and cooling work being done by such corporation, firm,  
22 or partnership.

23 Section 5. That Section 25.03.190 of the Lincoln Municipal Code be amended to read  
24 as follows:

25 **25.03.190 Examination and Registration Fee.**

26 Each applicant for a master HVAC contractor registration or journeyman HVAC technician  
27 registration shall pay to the Building Official an examination fee as follows:

28	Master HVAC contractor examination fee . . . . .	<del>\$50.00</del> <u>150.00</u>
29	Journeyman HVAC technician examination fee . . . . .	<del>\$50.00</del> <u>100.00</u>

1 Upon the initial issuance or subsequent renewal of a registration certificate, a registration fee shall  
2 be paid annually to the Building Official as follows:

- 3 Master HVAC contractor registration fee . . . . . ~~\$50.00~~ 250.00
- 4 Inactive Master HVAC contractor registration fee . . . . . \$50.00
- 5 Journeyman HVAC technician registration fee . . . . . ~~\$15.00~~ \$25.00
- 6 Apprentice HVAC technician registration fee . . . . . ~~\$13.00~~ \$15.00

7 Any person dealing in heating, ventilating or cooling equipment or supplies, but not engaged in the  
8 installation, alteration, repair, or removal of equipment or supplies shall not be required to register  
9 hereunder.

10 Section 6. Amending Chapter 25.03 of the Lincoln Municipal Code by adding a new  
11 section numbered 25.03.195 to read as follows:

12 **25.03.195 Continuing Education Requirements.**

13 All registered master HVAC contractors shall submit proof of eight hours of continuing  
14 education. Credit for continuing education may include attending educational meetings with  
15 organizations such as ASHRAE, RSES, ACCA, Lincoln Heating and Cooling Contractors  
16 Association, or Manufacturers Seminar presentations. These continuing education credits shall be  
17 submitted to the Building Official each calendar year before the registration certificate expires  
18 (December 31).

19 Section 7. That Section 25.03.290 of the Lincoln Municipal Code be amended to read  
20 as follows:

21 **25.03.290 Section 304.5 Amended; Prohibited Locations.**

22 Section 304.5 of the Uniform Mechanical Code is amended to read as follows:

23 **304.5 Prohibited Locations.** Equipment shall not be located in a hazardous location unless  
24 listed and approved for the specific installation. Fuel-burning equipment, electric resistance heating  
25 devices or electrostatic air cleaners shall not be installed in a surgical procedure or medical treatment  
26 room. Fuel-burning -equipment shall not be installed in a closet, bathroom or a room readily usable  
27 as a bedroom, or in a room, compartment or alcove opening directly into any of these.

28 **EXCEPTIONS:**

- 29 1. Direct vent equipment and electric heat furnaces.

1                   2. Access to furnaces located in an attic or underfloor crawl space  
2 may be through a closet.

3                   3. A vented appliance located in an unconfined space in accordance  
4 with the combustion air requirements of Chapter 7.

5                   4. A fireplace may be approved for installation in a bathroom or  
6 bedroom if equipped with an approved method of obtaining combustion air  
7 from outside.

8                   5. A warm-air furnace in an enclosed space with combustion air  
9 obtained from outside the building in conformance with Chapter 7 and having  
10 a tightfitting gasketed door with a closer may have access through a bathroom  
11 or bedroom.

12                   6. Fuel burning equipment may be approved for replacement in a  
13 bathroom with combustion air obtained in accordance with Chapter 7.

14                   Equipment burning liquefied petroleum gas (LPG) or liquid fuel shall not be located in a pit,  
15 and underfloor space, below grade or similar location where vapors or fuel might unsafely collect  
16 unless an approved method for the safe collection, removal and containment or disposal of the  
17 vapors or fuel is provided. Appliances so fueled shall not be installed in any room or area unless  
18 installed with the use of a UL or AGA approved alarm in each area.

19                   In areas subject to flooding, equipment which would be damaged or create hazardous  
20 conditions if subjected to inundation shall not be installed at or below grade unless suitably protected  
21 by elevation or other approved means.

22                   Section 8. That Section 25.03.320 of the Lincoln Municipal Code be amended to read  
23 as follows:

24 **25.03.320 Section 402.4 Amended; Make-up Air.**

25                   Section 402.4 of the Uniform Mechanical Code is amended to read as follows:

26                   **402.4 Make-up Air.** Ventilation air supply shall be sufficient to provide make-up air for  
27 exhaust systems when required by this code or the Building Code. Make-up air systems shall be  
28 electrically interlocked with their associated exhaust systems.

1 A four-inch minimum round fresh air opening or an opening equivalent to half of the  
2 common flue cross sectional area shall be provided within six feet of the mechanical equipment or  
3 tied into the return air duct.

4 **402.4.1.** Each room provided with an exhaust system shall have air supplied to the room  
5 equal to the amount of air to be exhausted. Makeup diffusers shall be located to prevent a short-  
6 circuiting of air furnished to the exhaust system. Windows and doors shall not be used for the  
7 purpose of providing makeup air. The exhaust and makeup air systems shall be connected by an  
8 electrical interlocking switch. Compensating hoods shall meet the airflow requirements specified  
9 in Sections 508.7 through 508.7.4. All compensating hoods shall extract at least forty percent of  
10 their required exhaust airflow from the kitchen area ~~unless the hood manufacturer requests different~~  
11 ~~air flow.~~

12 Section 9. That Section 25.03.330 of the Lincoln Municipal Code be amended to read  
13 as follows:

14 **25.03.330 Section 504.1 Amended; Environmental Air Ducts; Makeup and Exhaust Air**  
15 **Ducts.**

16 Section 504.1 of the Uniform Mechanical Code is amended to read as follows:

17 **504.1 Makeup and Exhaust Air Ducts.** Environmental air ducts not regulated by other  
18 provisions of this code shall comply with this section. Ducts shall be substantially airtight and shall  
19 comply with the provisions of Chapter 6. Exhaust ducts shall terminate outside the building and  
20 shall be equipped with backdraft dampers. Environmental air ducts which have an alternate function  
21 as a part of an approved smoke-control system do not require design as Class I product-conveying  
22 ducts. Where environmental exhaust ducts pass through unconditioned spaces, they shall be  
23 insulated as per Table 6D.

24 Toilet rooms shall be provided with a fully openable exterior window at least three square  
25 feet (.279 m<sup>2</sup>) in area; or a vertical duct not less than 100 square inches (64,520 mm<sup>2</sup>) in area for the  
26 first toilet facility, with fifty additional square inches (32,260 mm<sup>2</sup>) for each additional facility; or  
27 a mechanically operated exhaust system capable of providing a complete change of air every fifteen  
28 minutes. Such systems shall be connected directly to the outside, and the point of discharge shall  
29 be at least three feet (914.4 mm) from any opening into the building.

1 Residential bathrooms, water closet compartments, laundry rooms and similar rooms shall  
2 be provided with natural ventilation by means of openable exterior openings with an area not less  
3 than one twentieth of the floor area of such rooms with a minimum of 1 1/2 square feet (0.14 m<sup>2</sup>).

4 In lieu of required exterior openings for natural ventilation in bathrooms containing a bathtub  
5 or shower or combination thereof, laundry rooms, and similar rooms, a mechanical ventilation  
6 system connected directly to the outside capable of providing five air changes per hour shall be  
7 provided. Such systems shall be connected directly to the outside, and the point of discharge shall  
8 be at least three feet (914 mm) from any opening which allows air entry into occupied portions of  
9 the building. ~~Bathrooms which contain only a water closet or lavatory or combination thereof, and  
10 similar rooms may be ventilated with an approved mechanical recirculating fan or similar device  
11 designed to remove odors from the air.~~

12 Section 10. That Chapter 25.03 of the Lincoln Municipal Code be amended by adding  
13 a new section numbered 25.03.335 to read as follows:

14 **25.03.335 Section 504.2.1 Added; Residential Kitchen Exhaust.**

15 Section 504.2 of the Uniform Mechanical Code is amended by adding a new Section 504.2.1  
16 to read as follows:

17 **504.2.1 Residential Kitchen Exhaust.** Residential kitchen exhaust shall not be sized with  
18 air flow exceeding 300 cfm.

19 **Exception.** Residential kitchen exhaust may exceed 300 cfm provided makeup air is  
20 supplied into the structure. The makeup air shall be controlled by a motorized damper that is  
21 electrically interlocked to open with the operation of the kitchen exhaust fan. The makeup air shall  
22 be conditioned to within 10E F. of the of the space design temperature during the winter heating  
23 mode. The makeup air may be conditioned in the winter heating mode by circulation with a forced  
24 air furnace system or by other means approved by the Building Official.

25 Section 11. That Section 25.03.340 of the Lincoln Municipal Code be amended to read  
26 as follows:

1       **25.03.340   Section 504.3.1 Amended; Environmental Air Ducts; Domestic Dryer Vent;**  
2                   **Moisture Exhaust Ducts.**

3                   Section 504.3.1 of the Uniform Mechanical Code is amended to read as follows:

1           **504.3.1 Moisture exhaust ducts.** Moisture exhaust ducts for domestic clothes dryers shall  
2 terminate on the outside of the building and shall be equipped with a back-draft damper. Screens  
3 shall not be installed at the duct termination. Ducts for exhausting clothes dryers shall not be  
4 connected or installed with sheet metal screws or other fasteners which will obstruct the flow.  
5 Clothes-dryer moisture-exhaust ducts shall not be connected to a gas vent connector, gas vent or  
6 chimney. Clothes-dryer moisture exhaust ducts may extend into or through ducts or plenums  
7 provided connections are sealed airtight. Vertical laundry dryer exhaust duct inlets in excess of ten  
8 feet shall be a minimum of six inches above the dryer cabinet for duct cleaning access.

9           Section 12. Chapter 25.03 of the Lincoln Municipal Code be amended by adding a new  
10 section numbered 25.03.365 to read as follows:

11 **25.03.365 Section 507.5 Amended; Cleanouts and Other Openings.**

12           Section 507.5 of the Uniform Mechanical Code is amended to read as follows:

13           **507.5 Cleanouts and Other Openings.** Grease duct systems shall not have openings therein  
14 other than those required for proper operation and maintenance of the system. Any portion of such  
15 system having sections inaccessible from the duct entry or discharge shall be provided with adequate  
16 cleanout openings. Cleanout openings shall be equipped with tightfitting doors constructed of steel  
17 having a thickness not less than that required for the duct. Doors shall be equipped with a substantial  
18 method of latching, sufficient to hold the door tightly closed. Doors shall be so designed that they  
19 can be opened without the use of a tool. Any portion of horizontal grease duct systems having  
20 sections inaccessible from duct entry or discharge shall be provided with adequate cleanout openings  
21 at every change of direction and at 12-foot intervals.

22           Section 13. That Chapter 25.03 of the Lincoln Municipal Code be amended by adding  
23 a new section numbered 25.03.367 to read as follows:

24 **25.03.367 Section 507.8 Amended; Air Velocity.**

25           Section 507.8 of the Uniform Mechanical Code is amended to read as follows:

26           **507.8 Air Velocity.** Grease duct systems serving a Type I hood shall be designed and  
27 installed in a manner to provide an air velocity within the duct system of not less than 1,500 feet per  
28 minute (7.5 m/s) and not to exceed 2,500 feet per minute (12.7 m/s). Ducts for Type II hoods that  
29 collect and remove steam, vapor, heat, and odors shall have a minimum velocity of 1,000 feet per  
30 minute and a maximum velocity of 1,500 feet per minute.

1                   Section 14. That Section 25.03.400 of the Lincoln Municipal Code be amended to read  
2 as follows:

3 **25.03.400 Section 601.1 Amended; Ducts Systems; Scope; Material.**

4                   Section 601.1 of the Uniform Mechanical Code is amended to read as follows:

5                   **601.1 Material.** Return air and supply air for heating, cooling, absorption or evaporative  
6 cooling systems shall be conducted through duct systems constructed of metal as set forth in Table  
7 Nos. 6A, 6B, 6C or factory-made air ducts complying with Uniform Mechanical Code Standard No.  
8 6-2. Ducts, plenums, and fittings may be constructed of concrete, clay, ceramics, fiberglass, steel  
9 with plastic coating, or metal with exterior coating of polyvinyl chloride (P.V.C.) when installed in  
10 the ground, or in a concrete slab, provided all joints are tightly sealed.

11                   **601.1.1 Use of corridor as plenum.** Corridors shall not be used to convey air to or from  
12 rooms if the corridor is required to be of fire resistive construction by Section 1005 of the Uniform  
13 Building Code.

14                   Environmental ducts may extend into or through ducts or plenums provided the  
15 requirements of section 601.3 are met. All joints shall be sealed with duct tape or other approved  
16 materials.

17                   **601.1.2 Use of concealed space as plenum.** Concealed building spaces or independent  
18 construction within buildings may be used as ducts or plenums. Vents or vent connectors shall not  
19 extend into or through ducts or plenums.

20                   **601.1.3 Materials exposed within ducts.** Materials exposed within ducts or plenums shall  
21 have a flame-spread rating of not more than twenty-five and a smoke-development rating of not more  
22 than fifty.

23                                   EXCEPTION: Return-air ducts, plenums, or concealed spaces which  
24                                   serve a dwelling unit may be of combustible construction.

25                   Wiring in plenums shall comply with the electrical code.

26                   Where gypsum products are exposed in ducts or plenums, the air temperatures shall be  
27 restricted to range from 50E F. to 125E F.; and moisture content shall be controlled so that the  
28 material is not adversely affected. Gypsum products shall not be exposed in ducts serving  
29 evaporative coolers or in rooms with tubs, showers, or similar type equipment. Bath and laundry

1 room exhaust ducts shall not exceed the limitations set forth in Table No. ~~6-G of the Uniform~~  
2 ~~Mechanical Code 5-E of this code.~~

3 Section 15. That Section 25.03.410 of the Lincoln Municipal Code be amended to read  
4 as follows:

5 **25.03.410 Section 601.6 Amended; Joints, Seams and Fittings.**

6 Section 601.6 of the Uniform Mechanical Code is amended to read as follows:

7 **601.6 Joints and seams of ducts.** Joints, seams, and fittings of duct systems shall be made  
8 substantially airtight. In addition, all ducts in attics and crawl spaces and supply and return air  
9 connections to the equipment cabinet shall be sealed by means of tape, mastics, gasketing, or other  
10 means approved by the Building Official.

11 Section 16. That Section 25.03.430 of the Lincoln Municipal Code be amended to read  
12 as follows:

13 **25.03.430 Section 701 Amended; Combustion Air; General; Air Supply.**

14 Section 701 of the Uniform Mechanical Code is amended to read as follows:

15 ~~**701.1 Air Supply.** Fuel-burning equipment shall be assured a sufficient supply of~~  
16 ~~combustion air. The methods of providing combustion air in this chapter do not apply to direct vent~~  
17 ~~appliances, appliances listed as having separated combustion systems, enclosed furnaces, listed~~  
18 ~~cooking appliances, refrigerators and domestic clothes dryers.~~

19 **701.2 Unusually Tight Construction.** In buildings of unusually tight construction,  
20 combustion air shall be obtained from outside. With prior approval of the Building Official, in all  
21 other buildings, all or a portion of the combustion air for fuel-burning appliances may be obtained  
22 from infiltration when the requirement for fifty cubic feet (1.5 m<sup>3</sup>) per 1000 Btu/hr (4.831 L/W) input  
23 is met.

24 All new construction shall be considered to be of unusually tight construction and shall  
25 comply with Section 707.1 of the Uniform Mechanical Code.

26 Combustion air may be taken from the outside and brought into the return air system or into  
27 the mechanical space and within six feet of the appliances served, provided the free area is not less  
28 than 12.566 square inches (8107.58 mm<sup>2</sup>) (4 inch round) or fifty percent of the flue size in square  
29 inches (mm<sup>2</sup>), whichever is greater, or in accordance with the manufacturer's instructions. In  
30 addition, the other requirements of Chapter 7 of the Uniform Mechanical Code shall be met.

1 Combustion/ventilation air ducts directly from the outdoors, including attic, shall be insulated  
2 with at least a one-half inch liner or a one-inch wrap material.

3 Combustion/ventilation air shall not be taken from the ventilated attic when exhaust fan air  
4 terminates in the attic space.

5 ~~**701.3 Ordinary Construction.** In buildings of ordinary tightness insofar as infiltration is  
6 concerned all or a portion of the combustion air for fuel-burning appliances may be obtained from  
7 infiltration when the requirements for fifty cubic feet (1.5 m<sup>3</sup>) per 1,000 Btu/hr (4.831 L/W) input  
8 is met.~~

9 **701.4 Existing Buildings.** When fuel-burning appliances are installed in an existing  
10 building containing other fuel-burning appliances, the room or space shall be provided with  
11 combustion air as required by this chapter for all fuel-burning appliances contained therein.  
12 Additional floor area can be used for combustion air requirements of a replacement furnace when  
13 all of the following conditions are met:

14 (1) The structure is a single family dwelling.

15 (2) The communicating high-low combustion grills between the mechanical space and  
16 adjoining areas must constitute at least fifty percent of the required cubic feet for combustion air for  
17 the total BTU's in the space.

18 (3) A blower-type furnace is being installed.

19 (4) A grill equivalent to one square inch (25 mm<sup>2</sup>) free air per 4000 BTU (19.324 L/W)  
20 input rating of all appliances shall be installed on the supply duct or plenum.

21 (5) The grill shall not have shutters and shall be labeled with at least one-half inch  
22 letters of metal, plastic, or other approved materials and read: "Combustion Air Grill - Do Not  
23 Cover. If covered, may cause illness or death."

24 (6) The combustion grill cannot be on the plenum or supply duct, within the furnace  
25 room, if the furnace room area is less than twenty-five percent of the required cubic feet.

26 Section 17. That Section 25.03.440 of the Lincoln Municipal Code be and the same  
27 is hereby repealed:

1 ~~25.03.440 — Section 702.2 Amended; Combustion-Air Openings; Dampers Prohibited.~~

2 ~~— Section 702.2 of the Uniform Mechanical Code is amended to read as follows:~~

1 ~~702.2 Dampers Prohibited.~~ Combustion air openings shall not be installed so as to pass  
2 through construction where fire dampers are required. Fire or volume dampers shall not be installed  
3 in combustion air openings unless safety means such as interlocks with the gas valve are provided,  
4 and the proposed installation is approved by the Building Official prior to the installation.

5 Section 18. That Section 25.03.570 of the Lincoln Municipal Code be amended to read  
6 as follows:

7 **25.03.570 Section 1706 Added; Examination and Registration Fees.**

8 Section 1706 is added to the Uniform Mechanical Code to read as follows:

9 **1706. Examination and Registration Fees.** Each applicant for a new registration shall  
10 pay to the Building Official an examination fee of fifty dollars.

11 Upon initial issuance or subsequent renewal of a registration certificate, annual registration  
12 fees shall be paid as follows:

13 Decorative fireplace/gas log contractor registration fee. . . \$50.00

14 Decorative fireplace/gas log installer registration fee . . . ~~\$20.00~~ 25.00

15 All registrations provided by this section shall expire on the last day of December following  
16 the date of issuance thereof, and shall not be assignable.

17 Any person registered under the provisions of this code as a decorative fireplace/gas log  
18 contractor or a decorative fireplace/gas log installer who does not renew his certificate of registration  
19 within a period of sixty days after the expiration of same shall pay the examination fee required by  
20 this code and shall submit himself to and pass the regularly scheduled written examination given by  
21 the Board of Examiners before such person can be again registered hereunder.

22 ~~All registered decorative fireplace/gas log contractors or installers duly registered at the time~~  
23 ~~of the adoption of this code shall be automatically registered in their appropriate classification~~  
24 ~~without submitting to an examination~~

25 Section 19. That Sections 25.03.060, 25.03.080, 25.03.090, 25.03.140, 25.03.170,  
26 25.03.190, 25.03.290, 25.03.320, 25.03.330, 25.03.340, 25.03.400, 25.03.410, 25.03.430, and  
27 25.03.570 of the Lincoln Municipal Code as hitherto existing be and the same are hereby repealed.

28 Section 20. That the operative date of this ordinance shall be October 1, 2003.

29 Section 21. That this ordinance shall take effect and be in force from and after its  
30 passage and publication according to law.

Introduced by:

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Approved as to Form & Legality:

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City Attorney

Approved this \_\_\_ day of \_\_\_\_\_, 2003:

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Mayor