



**CITY OF PLANO  
COUNCIL AGENDA ITEM**

<b>CITY SECRETARY'S USE ONLY</b>				
<input type="checkbox"/> Consent <input type="checkbox"/> Regular <input type="checkbox"/> Statutory				
Council Meeting Date:		January 10, 2011		
Department:		Building Inspections		
Department Head		Selso Mata		
Agenda Coordinator (include phone #): <b>Diana Casady #5993</b>				
<b>CAPTION</b>				
<p>An Ordinance of the City of Plano, Texas repealing in its entirety, City of Plano Ordinance No. 2008-4-38 codified as Division 2 Plumbing Code, of Article VIII, Plumbing and Mechanical Equipment, of Chapter 6 of the Code of Ordinances; and adopting the 2009 Edition of the International Plumbing Code, with certain additions, deletions and amendments, as the Plumbing Code of the City of Plano; and providing a repealer clause, a severability clause, a savings clause, a penalty clause, a publication clause and an effective date.</p>				
<b>FINANCIAL SUMMARY</b>				
<input checked="" type="checkbox"/> NOT APPLICABLE <input type="checkbox"/> OPERATING EXPENSE <input type="checkbox"/> REVENUE <input type="checkbox"/> CIP				
FISCAL YEAR: <b>2010-11</b>	<b>Prior Year (CIP Only)</b>	<b>Current Year</b>	<b>Future Years</b>	<b>TOTALS</b>
Budget	0	0	0	<b>0</b>
Encumbered/Expended Amount	0	0	0	<b>0</b>
This Item	0	0	0	<b>0</b>
BALANCE	0	0	0	<b>0</b>
<b>FUND(S):</b>				
<b>COMMENTS:</b> This item has no fiscal impact.				
<b>SUMMARY OF ITEM</b>				
<p>This ordinance will adopt the most recent version of the International Plumbing Code published by the International Code Council and includes the regional amendments which have been developed by the North Central Texas Council of Governments. Public review of all construction related codes was addressed at work sessions held by the Building Standards Commission in September of 2010. Formal action was taken by the Building Standards Commission at its September 21, 2010 meeting. At that time, the Commission voted unanimously to forward this Code and amendments to the City Council for adoption as the Plumbing Code for the City of Plano</p>				
List of Supporting Documents:		Other Departments, Boards, Commissions or Agencies		
Supporting letter from Council of Governments		Building Standards Commission		
Minutes from BSC 09/21/10				



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## **MEMORANDUM**

December 22, 2010

To: Tom Muehlenbeck, City Manager  
From: Selso Mata, Chief Building Official  
Subject: 2009 Code adoption  
CC: Frank Turner, Deputy City Manager

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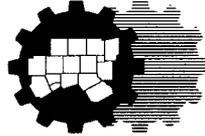
In mid 2009 and throughout 2010 the regional code committees in our North Texas area reviewed the International Code Council's 2009 construction codes and the National Fire Prevention Association's 2011 National Electrical Code (NEC). The culmination of these efforts is summarized in the attached memo from The North Central Texas Council of Governments (NCTCOG) with their recommendation for code adoption. Plano's Building Standards Commission (BSC) subsequently held four meetings this year to further review code amendments and receive stakeholder input. Meeting minutes are attached from each BSC hearing. As a result, the BSC unanimously recommends the 2009 International codes and the 2011 NEC with code amendments to the City Council for the January 10, 2011 meeting with an effective enforcement date of March 1, 2011.

The recommended codes with amendments are:

- 2009 – International Building Code
- 2009 – International Residential Code
- 2009 – International Plumbing Code
- 2009 – International Mechanical Code
- 2009 – International Fuel and Gas Code
- 2009 – International Energy Conservation Code
- 2011 – National Electrical Code

Please let me know if you have any questions or need additional information.

XC: Hugo Esparza, Fire Chief  
David Kerr, Fire Marshal



North Central Texas Council Of Governments

**TO:** Jurisdictions throughout the North Central Texas Region **DATE:** November 23, 2010

**SUBJECT:** Model Construction Code Recommendations for North Central Texas

The North Central Texas Council of Governments (NCTCOG) has actively promoted the standardization of model construction codes since 1967 in an effort to simplify the construction process, advance the safety of building systems, promote common code interpretation, facilitate the mobility of contractors, and reduce training and construction costs.

In mid 2009, NCTCOG's Regional Codes Coordinating Committee (RCCC) directed its Code Advisory Boards to review the International Code Council's 2009 family of model construction codes and the National Fire Prevention Association's 2011 National Electrical Code. The Advisory Boards, comprised of 101 code professionals representing local jurisdictions and professional associations, held open meetings to consider the codes and achieve consensus on any needed regional amendments. Many national and regional subject matter experts also gave testimony and participated in the process.

As a result, the NCTCOG Executive Board, upon the recommendation of the RCCC and its Advisory Boards, encourages your jurisdiction to adopt the following model construction codes along with their respective regional amendments:

- ◆ **International Building Code – 2009 Edition**
- ◆ **International Residential Code – 2009 Edition**
- ◆ **International Fire Code – 2009 Edition**
- ◆ **International Plumbing Code – 2009 Edition**
- ◆ **International Mechanical Code – 2009 Edition**
- ◆ **International Fuel Gas Code – 2009 Edition**
- ◆ **International Energy Conservation Code - 2009 Edition**
- ◆ **National Electrical Code – 2011 Edition**

NCTCOG recommends adopting these codes with no local amendments other than the regional amendments with an effective date of **January 31, 2011** or as soon as possible thereafter. The ultimate goal is regional uniformity in the model construction codes for the North Central Texas region. NCTCOG feels strongly that municipalities, contractors, architects, builders, and manufacturers will benefit from the positive economic results coming from achievement of that goal.

As a follow-up measure, the RCCC intends to submit some of the regional amendments as proposed changes during the next international code change cycle. In the past, several NCTCOG regional amendments have been incorporated into the codes when those amendments were proposed as code changes to the main documents.

**PLEASE NOTE:**

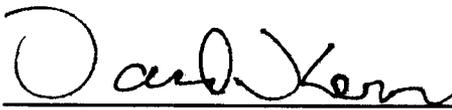
- 1) The Energy Efficiency amendments have been reviewed by the Energy Systems Laboratory (ESL) at Texas A&M to ensure equivalency with the current Energy Code adopted by the State of Texas (the 2003 International Energy Conservation Code).
- 2) The Energy Efficiency amendments have been reviewed by the Energy Systems Laboratory (ESL) at Texas A&M to ensure equivalency with the future Energy Code adopted by the State of Texas (the 2009 International Energy Conservation Code and Chapter 11 of the 2009 International Residential Code).
- 3) An International Code Compliance Calculator (ICCC) has been created by the ESL to demonstrate compliance with the State's Energy Conservation Requirements. The ICCC is "live" and can be accessed at <http://ecalc.tamu.edu>
- 4) There is a wide range in the fire fighting philosophies/capabilities of cities across the region; the consensus of the RCCC has been to include both an OPTION "A" and an OPTION "B" in the fire and building code amendments. Jurisdictions should choose one or the other based on their fire fighting philosophies/capabilities when adopting code amendments.

You may access our website at [www.dfwcodes.com](http://www.dfwcodes.com) to obtain a copy of the recommended regional amendments. For more information regarding regional codes, contact Michael King, Environment & Development Planner, by email at [mking@nctcog.org](mailto:mking@nctcog.org) or by phone at (817) 695-9277.

We appreciate your support of our continued efforts toward regional code uniformity. Please send a copy of your adopting ordinance(s) to NCTCOG including amendments. Your ordinance will help us to document the effectiveness of the codes coordinating effort in our region and may be used to provide a model to other jurisdictions.

  
Mike Eastland, Executive Director  
North Central Texas Council of Governments

  
John Promise, Director  
Department of Environment and Development

  
David Kerr, Chairman  
Regional Codes Coordinating Committee

MK/ez

Building Standards Commission  
September 21, 2010

Present

Rich Prusha, Chairman  
Art Stone  
Mo Khoshkar  
Gary Johnston  
James Craft,  
Kevan Benkowitz, Present, not seated  
Mark Greer, Present, not seated.  
Sylvia Reid, Present, not seated

Staff

Selso Mata, Building Official  
John Gilliam, Assistant City Attorney  
Cliff Bormann, Assistant Building Official  
Gary Miles, Assistant Building Official  
Tony Han, Plan Review Services Supervisor  
Diana Casady, Sr. Administrative Assistant

1. Public comments: **No Public Comment**
2. Approval of Minutes from March 16, 2010 meeting.  
**Quorum was not present to pass the minutes from the March 16<sup>th</sup> meeting.**
3. Approval of Minutes from April 20, 2010 meeting  
**Quorum was not present to pass the minutes from the April 20<sup>th</sup> meeting**
4. Approval of Minutes from August 17, 2010 meeting  
**Mr. Johnston made the motion to approve the minutes of the August 17, 2010 meeting as written, Mr. Khoshkar seconded the motion. The Commission voted 5/0 in favor of approving the minutes from August 17, 2010.**
5. Discussion and consideration of recommendation to City Council for the adoption of the 2009 International Plumbing Code, the 2009 International Mechanical Code, the 2009 International Fuel Gas Code, and the 2009 International Building Code  
**Building Official, Selso Mata, opened the presentation of the I Codes to the Commission and introduced Gary Miles, Assistant Building Official to present the International Plumbing Code, Mr. Miles presented the IPC and let the Commission know that the Amendments have not changed since the last code cycle and went over the Local Amendments with the Commission.**  
  
**Mr. Miles presented the International Mechanical Code and answered questions from the Commission.**

**Mr. Miles presented the International Fuel Gas Code and answered questions from the Commission, the Fuel Gas Code has not changed since the last code cycle.**

**Cliff Bormann, Assistant Building Official, presented the 2009 International Building Code to the Commission, and answered questions from the Commission.**

**After hearing the Presentation, Commission Member Art Stone made the motion to Recommend approval for the 2009 International Plumbing Code amendments, 2009 International Mechanical Code amendments, 2009 International Fuel Gas Code amendments and the 2009 International Building Code Amendments as reviewed at this meeting, recognizing there is subject to changes made in future discussions. Commission member Gary Johnston seconded the motion. The Commission voted 5/0 in favor of this recommendation.**

6. Items for future agendas

**Code Review for the 2009 International Residential and 2009 Energy Conservation Codes on October 19, 2010**

**2200 Treehouse Lane, tabled from the August 17, 2010 meeting.**

The Public Hearing adjourned at 5: 03 P.M.

  
Rich Prusha, Chairman

**An Ordinance of the City of Plano, Texas repealing in its entirety, City of Plano Ordinance No. 2008-4-38 codified as Division 2 Plumbing Code, of Article VIII, Plumbing and Mechanical Equipment, of Chapter 6 of the Code of Ordinances; and adopting the 2009 Edition of the International Plumbing Code, with certain additions, deletions and amendments, as the Plumbing Code of the City of Plano; and providing a repealer clause, a severability clause, a savings clause, a penalty clause, a publication clause and an effective date.**

**WHEREAS**, on April 28, 2008, by Ordinance No. 2008-4-38, the City Council of the City of Plano established a Plumbing Code and provided regulations thereunder, and such Ordinances were codified as Division 2, Plumbing Code, of Article VIII, Plumbing and Mechanical Equipment, of Chapter 6 of the Code of Ordinances of the City of Plano, (“City”); and

**WHEREAS**, on September 21, 2010, the Building Standards Commission held a public hearing to discuss the adoption of the 2009 Edition of the International Plumbing Code, a publication of the International Code Council (I.C.C.), along with the Appendices of such Code, and to receive input from the general public and all persons who may be affected by the proposed adoption; and

**WHEREAS**, Upon recommendation of the Building Standards Commission and upon full review and consideration of all matters attendant and related thereto, the City Council is of the opinion that the 2009 Edition of the International Plumbing Code, along with the Appendices of such Code and the local amendments thereto, should be approved and adopted as the Plumbing Code of the City.

**NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF PLANO, TEXAS, THAT:**

**Section I.** Ordinance No. 2008-4-38, duly passed and approved by the city Council of the City of Plano on April 28, 2008 is hereby repealed in its entirety.

**Section II.** A new Division 2, Plumbing Code, of Article VIII, Plumbing and Mechanical Equipment, of Chapter 6 of the Code of Ordinances is hereby adopted and shall read in its entirety as follows:

#### DIVISION 2 PLUMBING CODE

Sec. 6-236. Penalty.

- (a) Any person, firm or corporation found to be violating any term or provision of this Ordinance, shall be subject to a fine in accordance with section 1-4(a) of the City Code of Ordinances for each offense. Every day a violation continues shall constitute a separate offense.

- (b) Civil. The City may file a civil action for enforcement of this Division with civil penalties up to \$1,000.00 per day for each offense as authorized by Subchapter B of Chapter 54 of the Texas Local Government Code, as amended.

Sec. 6-237. Adopted.

The 2009 Edition of the International Plumbing Code a publication of the International Code Council (I.C.C.) along with the appendices of such Code is hereby adopted and designated as the Plumbing Code of the City, to the same extent as if such code were copied verbatim in this Section, subject to the deletions, additions and amendments prescribed in this Division. A copy of the 2009 Edition of the International Plumbing Code is on file in the office of the City Secretary.

Sec. 6-238. Administrative authority.

For purposes of this Division and interpreting the Code adopted in this Division, the term “Administrative Authority” shall mean the Building Official of the City, his agents and employees who are hereby empowered with the authority to administer and enforce the provisions of this Division and the Plumbing Code.

Sec. 6-239. Deletions, Additions, Amendments.

The following deletions, additions, and amendments to the International Plumbing Code adopted in this Division are hereby approved and adopted:

***Table of Contents, Chapter 7, Section 714; change to read as follows:***

Section 714 Engineered\_Drainage Design . . . . . 67

***Section 102.8; change to read as follows:***

**102.8 Referenced codes and standards.** The codes and standards referenced in this code shall be those that are listed in Chapter 13 and such codes, when specifically adopted, and standards shall be considered as part of the requirements of this code to the prescribed extent of each such reference. Where the differences occur between provisions of this code and the referenced standards, the provisions of this code shall be the minimum requirements. Whenever amendments have been adopted to the referenced codes and standards, each reference to said code and standard shall be considered to reference the amendments as well. Any reference to NFPA 70 or the ICC *Electrical Code* shall mean the Electrical Code as adopted.

***Sections 106.6.2 and 106.6.3; change to read as follows:***

**106.6.2 Fee schedule.** The fees for all plumbing work shall be as adopted by resolution of

the governing body of the jurisdiction.

**106.6.3 Fee Refunds.** The code official shall establish a policy for authorizing the refunding of fees

**109.1 Application for appeal.** Any person shall have the right to appeal a decision of the code official to the board of appeals established by ordinance. The board shall be governed by the enabling ordinance.

*Section 305.6.1; change to read as follows:*

**305.6.1 Sewer depth.** Building sewers shall be a minimum of 12 inches (304 mm) below grade.

*Section 305.9; change to read as follows:*

**305.9 Protection of components of plumbing system.** Components of a plumbing system installed within 3 feet along alleyways, driveways, parking garages or other locations in a manner in which they would be exposed to damage shall be recessed into the wall or otherwise protected in an *approved* manner.

**Section 310.4; delete.**

*Section 310.5; delete.*

*Sections 312.10.1 and 312.10.2; change to read as follows:*

**312.10.1 Inspections.** Annual inspections shall be made of all backflow prevention assemblies and air gaps to determine whether they are operable. In the absence of local provisions, the owner is responsible to ensure that testing is performed.

**312.10.2 Testing.** Reduced pressure principle backflow preventer assemblies, double check-valve assemblies, pressure vacuum breaker assemblies, reduced pressure detector fire protection backflow prevention assemblies, double check detector fire protection backflow prevention assemblies, hose connection backflow preventers, and spill-proof vacuum breakers shall be tested at the time of installation, immediately after repairs or relocation and at least annually. The testing procedure shall be performed in accordance with applicable local provisions. In the absence of local provisions, the owner is responsible to ensure that testing is done in accordance with one of the following standards: *{list of standards unchanged}*

*Section 314.2.1; change to read as follows:*

**314.2.1 Condensate disposal.** Condensate from all cooling coils and evaporators shall be conveyed from the drain pan outlet to an *approved* place of disposal. ... {language

unchanged} ... Condensate shall not discharge into a street, alley, sidewalk, rooftop, or other areas so as to cause a nuisance.

***Section 314.2.2; change to read as follows:***

**314.2.2 Drain pipe materials and sizes.** Components of the condensate disposal system shall be cast iron, galvanized steel, copper, cross-linked polyethylene, polyethylene, ABS, CPVC, or schedule 80 PVC pipe or tubing when exposed to ultra violet light. All components shall be selected for the pressure, temperature and exposure rating of the installation. Joints and connections shall be made in accordance with the applicable provisions of Chapter 7 relative to the material type. Condensate waste and drain line size shall not be less than ¾-inch (19 mm) internal diameter and shall not decrease in size from the drain pan connection to the place of condensate disposal. Where the drain pipes from more than one unit are manifolded together for condensate drainage, the pipe or tubing shall be sized in accordance with Table 314.2.2. All horizontal sections of drain piping shall be installed in uniform alignment at a uniform slope.

***Section 401.1; add a sentence to read as follows:***

The provisions of this Chapter are meant to work in coordination with the provisions of the Building Code. Should any conflicts arise between the two chapters, the Code Official shall determine which provision applies.

Section 403.1; Add

**403.1 Minimum number of fixtures.** Where circumstances dictate that a different ratio is needed, the adjustment shall be approved by the Building Official.

1. B,M, and Assembly Occupancies: At least one drinking fountain shall be provided at each floor level in an *approved* location.

**Exception:** A drinking fountain need not be provided in a drinking or dining establishment and B Occupancies less than 2500 sq.ft. or M Occupancies less than 3000 sq. ft.

***Section 403.1.2; add Section 403.1.2 to read as follows:***

**403.1.2 Finish material.** Finish materials shall comply with Section 1209 of the *International Building Code*.

***Section 405.6; delete.***

Section 409.2; change to read as follows:

**409.2 Water connection.** The water supply to a commercial dishwashing machine shall be protected against backflow by an air gap or backflow preventer in accordance with Section 608.

*Section 410.1; change to read as follows:*

**410.1 Approval.** Drinking fountains shall conform to ASME A112.19.1M, ASME A112.19.2M or ASME A112.19.9M, and water coolers shall conform to ARI 1010. Drinking fountains and water coolers shall conform to NSF 61, Section 9.

**Exception:** A drinking fountain need not be provided in a drinking or dining establishment.

*Section 412.4; change to read as follows:*

**412.4 Required location.** Floor drains shall be installed in the following areas.

1. In public coin-operated laundries and in the central washing facilities of multiple family dwellings, the rooms containing automatic clothes washers shall be provided with floor drains located to readily drain the entire floor area. Such drains shall have a minimum outlet of not less than 3 inches (76 mm) in diameter.
2. Commercial kitchens. In lieu of floor drains in commercial kitchens, the code official may accept floor sinks.

*Section 417.5; change to read as follows:*

**417.5 Shower floors or receptors.** Floor surfaces shall be constructed of impervious, noncorrosive, nonabsorbent and waterproof materials.

Thresholds shall be a minimum of 2 inches (51 mm) and a maximum of 9 inches (229 mm), measured from top of the drain to top of threshold or dam. Thresholds shall be of sufficient width to accommodate a minimum twenty-two (22) inch (559 mm) door.

**Exception:** Showers designed to comply with ICC/ANSI A117.1.

*Section 417.5.2; change to read as follows:*

**417.5.2 Shower lining.** Floors under shower compartments, except where prefabricated receptors have been provided, shall be lined and made water tight utilizing material complying with Sections 417.5.2.1 through 417.5.2.5. Such liners shall turn up on all sides at least 2 3 inches (54 76 mm) above the finished threshold level and shall extend outward over the threshold and fastened to the outside of the threshold jamb. Liners shall be recessed and fastened to an *approved* backing so as not to occupy the space required for wall covering, and shall not be nailed or perforated at any point less than 1 inch (25 mm) above the finished threshold. Liners shall be pitched one-fourth unit vertical in 12

units horizontal (2-percent slope) and shall be sloped toward the fixture drains and be securely fastened to the waste outlet at the seepage entrance, making a water-tight joint between the liner and the outlet. The completed liner shall be tested in accordance with Section 312.9 and Section 417.7.

***Section 417.7; add Section 417.7 to read as follows:***

**417.7 Test for shower receptors.** Shower receptors shall be tested for water tightness by filling with water to the level of the rough threshold. The drain shall be plugged in a manner so that both sides of pans shall be subjected to the test at the point where it is clamped to the drain.

Section 419.3; change to read as follows:

**419.3 Surrounding material.** Wall and floor space to a point 2 feet (610 mm) in front of a urinal lip and 4 feet (1219 mm) above the floor and at least 2 feet (610 mm) to each side of the urinal shall be waterproofed with a smooth, readily cleanable, hard, nonabsorbent material.

***Section 502.3; change to read as follows:***

**502.3 Water heaters installed in attics.**

Attics containing a water heater shall be provided with an opening and unobstructed passageway large enough to allow removal of the water heater. The passageway shall not be less than 30 inches (762 mm) high and 22 inches (559 mm) wide and not more than 20 feet (6096 mm) in length when measured along the centerline of the passageway from the opening to the water heater. The passageway shall have continuous solid flooring not less than 24 inches (610 mm) wide. A level service space at least 30 inches (762 mm) deep and 30 inches (762 mm) wide shall be present at the front or service side of the water heater. The clear access opening dimensions shall be a minimum of 20 inches by 30 inches (508 mm by 762 mm), or larger where such dimensions are not large enough to allow removal of the water heater.

***Section 502.6; Add Section 502.6 to read as follows:***

**502.6 Water heaters above ground or floor.** When the attic, roof, mezzanine or platform in which a water heater is installed is more than eight (8) feet (2438 mm) above the ground or floor level, it shall be made accessible by a stairway or permanent ladder fastened to the building.

**Exception:** A max 10 gallon water heater (or larger with approval) is capable of being accessed through a lay-in ceiling and a water heater is installed is not more than ten (10) feet (3048 mm) above the ground or floor level and may be reached with a portable ladder.

**502.6.1 Illumination and convenience outlet.** Whenever the mezzanine or platform is not adequately lighted or access to a receptacle outlet is not obtainable from the main level, lighting and a receptacle outlet shall be provided in accordance with Section 502.1.

**Section 504.6; change to read as follows:**

**504.6 Requirements for discharge piping.** The discharge piping serving a pressure relief valve, temperature relief valve or combination thereof shall:

1. Not be directly connected to the drainage system.
2. Discharge through an air gap
3. Not be smaller than the diameter of the outlet of the valve served and shall discharge full size to the air gap.
4. Serve a single relief device and shall not connect to piping serving any other relief device or equipment.

**Exception:** Multiple relief devices may be installed to a single T & P discharge piping system when *approved* by the administrative authority and permitted by the manufactures installation instructions and installed with those instruction..

5. Discharge to a an indirect waste receptor or to the outdoors. Where discharging to the outdoors in areas subject to freezing, discharge piping shall be first piped to an indirect waste receptor through an air gap located in a conditioned area.
6. Discharge in a manner that does not cause personal injury or structural damage.
7. Discharge to a termination point that is readily observable by the building occupants.
8. Not be trapped.
9. Be installed so as to flow by gravity.
10. Not terminate less than 6 inches or more than 24 inches (152 mm) above grade nor more than 6 inches above the waste receptor.
11. Not have a threaded connection at the end of such piping.
12. Not have valves or tee fittings.
13. Be constructed of those materials listed in Section 605.4 or materials tested, rated and *approved* for such use in accordance with ASME A112.4.1.

**Section 604.4; add Section 604.4.1 to read as follows:**

**604.4.1 State maximum flow rate.** Where the State mandated maximum flow rate is more restrictive than those of this section, the State flow rate shall take precedence.

**Table 605.3; Water Service Pipe.** Delete Polyvinyl Chloride (PVC) Plastic Pipe from table.

**Section 606.1; delete items #4 and #5.**

**Section 606.2; change to read as follows:**

**606.2 Location of shutoff valves.** Shutoff valves shall be installed in the following locations:

1. On the fixture supply to each plumbing fixture other than bathtubs and showers in one- and two-family residential occupancies, and other than in individual sleeping units that are provided with unit shutoff valves in hotels, motels, boarding houses and similar occupancies.
2. On the water supply pipe to each appliance or mechanical equipment.

**Section 608.1; change to read as follows:**

**608.1 General.** A potable water supply system shall be designed, installed and maintained in such a manner so as to prevent contamination from nonpotable liquids, solids or gases being introduced into the potable water supply through cross-connections or any other piping connections to the system. Backflow preventer applications shall conform to applicable local regulations, Table 608.1 and as specifically stated in Sections 608.2 through 608.16.10.

Section 608.16.5; change to read as follows:

**608.16.5 Connections to lawn irrigation systems.**

The potable water supply to lawn irrigation systems shall be protected against backflow by an atmospheric-type vacuum breaker, a pressure-type vacuum breaker, a double-check assembly or a reduced pressure principle backflow preventer. A valve shall not be installed downstream from an atmospheric vacuum breaker. Where chemicals are introduced into the system, the potable water supply shall be protected against backflow by a reduced pressure principle backflow preventer.

**Section 608.17; change to read as follows:**

**608.17 Protection of individual water supplies.** An individual water supply shall be located and constructed so as to be safeguarded against contamination in accordance with applicable local regulations. In the absence of other local regulations, installation shall be in accordance with Sections 608.17.1 through 608.17.8.

**Section 610.1; add exception to read as follows:**

**610.1 General.** New or repaired potable water systems shall be purged of deleterious matter and disinfected prior to utilization. The method to be followed shall be that prescribed by the health authority or water purveyor having jurisdiction or, in the absence of a prescribed method, the procedure described in either AWWA C651 or AWWA C652, or as described in this section. This requirement shall apply to “on-site” or “inplant” fabrication of a system or to a modular portion of a system.

1. The pipe system shall be flushed with clean, potable water until dirty water does not appear at the points of outlet.
2. The system or part thereof shall be filled with a water/chlorine solution containing at least 50 parts per million (50 mg/L) of chlorine, and the system or part thereof shall be valved off and allowed to stand for 24 hours; or the system or part thereof shall be filled with a water/chlorine solution containing at least 200 parts per million (200 mg/L) of chlorine and allowed to stand for 3 hours.
3. Following the required standing time, the system shall be flushed with clean potable water until the chlorine is purged from the system.
4. The procedure shall be repeated where shown by a bacteriological examination that contamination remains present in the system.

**Exception:** With prior approval the Code Official may wave this requirement when deemed un-necessary by the Code Official.

*Section 712.5; add Section 712.5 to read as follows:*

**712.5 Dual Pump System.** All sumps shall be automatically discharged and, when in any “public use” occupancy where the sump serves more than 10 fixture units, shall be provided with dual pumps or ejectors arranged to function independently in case of overload or mechanical failure. For storm drainage sumps and pumping systems, see Section 1113.

*Section 714, 714.1; change to read as follows:*

**714.1 Design of drainage system.** The sizing, design and layout of the drainage system shall be permitted to be designed by *approved* design methods.

*Section 802.1.6; change to read as follows:*

**802.1.6 Domestic dishwashing machines.** Domestic dishwashing machines shall discharge indirectly through an air gap or air break into a standpipe or waste receptor in accordance with Section 802.2, or discharge into a wye-branch fitting on the tailpiece of the kitchen sink or the dishwasher connection of a food waste grinder. The waste line of a domestic dishwashing machine discharging into a kitchen sink tailpiece or food waste grinder shall connect to a deck-mounted air gap.

*Section 802.4; add a sentence to the end of the paragraph to read as follows:*

No standpipe shall be installed below the ground.

*Section 904.1; change to read as follows:*

**904.1 Roof extension.** All open vent pipes that extend through a roof shall be terminated at least six (6) inches (152 mm) above the roof, except that where a roof is to be used for any purpose other than weather protection, the vent extensions shall be run at least 7 feet (2134 mm) above the roof.

*Section 906.1; change to read as follows:*

**906.1 Distance of trap from vent.** Each fixture trap shall have a protecting vent located so that the slope and the developed length in the fixture drain from the trap weir to the vent fitting are within the requirements set forth in Table 906.1.

*Section 912.1; change to read as follows:*

**912.1 Type of fixture.** A combination drain and vent system shall not serve fixtures other than floor drains, standpipes, and indirect waste receptors. Combination drain and vent systems shall not receive the discharge from a food waste grinder or clinical sink.

*Section 1002.10; delete.*

*\*Section 1101.8; change to read as follows:*

**1101.8 Cleanouts required.** Cleanouts shall be installed in the building storm drainage system and shall comply with the provisions of this code for sanitary drainage pipe cleanouts.

**Exception:** Subsurface drainage system

*Section 1106.1; change to read as follows:*

**1106.1 General.** The size of the vertical conductors and leaders, building storm drains, building storm sewers, and any horizontal branches of such drains or sewers shall be based on six (6) inches per hour rainfall rate

*Section 1107.3; change to read as follows:*

**1107.3 Sizing of secondary drains.** Secondary (emergency) roof drain systems shall be sized in accordance with Section 1106 Scuppers shall be sized to prevent the depth of ponding water from exceeding that for which the roof was designed as determined by Section 1101.7. Scuppers shall not have an opening dimension of less than 4 inches (102

mm). The flow through the primary system shall not be considered when sizing the secondary roof drain system.

Section 1202.1; delete Exception 2.

**Section III.** All provisions of the Code of Ordinances of the City of Plano in conflict with the provisions of this Ordinance are hereby repealed, and all other provisions of the Code of Ordinances of the City of Plano, not in conflict with the provisions of this Ordinance, shall remain in full force and effect.

**Section IV.** It is the intention of the City Council that this Ordinance, and every provision thereof, shall be considered severable, and the invalidity or unconstitutionality of any section, clause, provision or portion of this Ordinance shall not affect the validity or constitutionality of any other portion of this Ordinance.

**Section V.** The repeal of any Ordinance or part of Ordinances effectuated by the enactment of this Ordinance shall not be construed as abandoning any action now pending under or by virtue of such Ordinance or as discontinuing, abating, modifying or altering any penalty accruing or to accrue, or as affecting any rights of the municipality under any section or provision of any Ordinances at the time of passage of this Ordinance.

**Section VI.** Any person, firm or corporation found to be violating any term or provision of this Ordinance, shall be subject to a fine in accordance with Section 1-4(a) of the City Code of Ordinances for each offense. Every day a violation continues shall constitute a separate offense.

**Section VII.** This Ordinance shall become effective March 1, 2011, and after its passage and publication as required by law.

DULY PASSED AND APPROVED this 10th day of January, 2011

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Phil Dyer, MAYOR

ATTEST:

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Diane Zucco, CITY SECRETARY

APPROVED AS TO FORM:

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Diane C. Wetherbee, CITY ATTORNEY