Agenda

Lucas City Council Regular Meeting
November 20, 2014, 7:00 PM
City Hall - 665 Country Club Road – Lucas, Texas – 75002-7651

Notice is hereby given that a City of Lucas Regular City Council Meeting will be held on Thursday, November 20, 2014 at 7:00 pm at the Lucas City Hall, 665 Country Club Road, Lucas, Texas, 75002-7651 at which time the following agenda will be discussed. As authorized by Section 551.071 of the Texas Government Code, the City Council many convene into closed Executive Session for the purpose of seeking confidential legal advice from the City Attorney on any item on the agenda at any time during the meeting.

Call to Order

- Roll Call
- Determination of Quorum
- Reminder to turn off or silence cell phones
- Pledge of Allegiance

Citizens' Input

The Citizens' Input portion of the agenda is an opportunity for the public to address the City Council on any subject. By completing a "Request to Speak" form and submitting it to the City Secretary, citizens have an opportunity to speak at the City Council meeting. However, in accordance with the Texas Open Meetings Act, the City Council cannot discuss issues raised or make any decisions at this time but may refer items to City Staff for research and possible inclusion on a future agenda.

1. Citizens' Input.

Community Interest

Pursuant to Section 551.0415 of the Texas Government Code, the City Council may report on the following items 1) expression of thanks, congratulations or condolences; 2) information about holiday schedules; 3) recognition of individuals; 4) reminders about upcoming City Council events; 5) information about community events; and 6) announcements involving imminent threat to public health and safety.

2. Presentation by Chief Jim Kitchens regarding MDA fundraising efforts by the Lucas Fire Department to assist with summer camp. **[Fire Chief Jim Kitchens]**

3. Discussion and update regarding the drought contingency plan, conservation efforts and watering restrictions as it pertains to the City of Lucas. **[Councilmember Debbie Fisher and Public Works Director Stanton Foerster]**

Consent Agenda

All items listed under the consent agenda are considered routine and are recommend to the City Council for a single vote approval. If discussion is desired, an item may be removed from the consent agenda for a separate vote.

4. Consider the minutes from the November 6, 2014 City Council meeting. **[Administrative Assistant Jennifer Faircloth]**

5. Consider Ordinance No. 2014-11-00798 of the City of Lucas, Texas, amending the Code of Ordinances by amending Chapter 3 titled "Building Regulations" by amending Article 3.04 tilted "Building Code" by adopting the 2009 edition of the International Building Code with amendments; by amending Article 3.05 titled "Mechanical Code" by adopting the 2009 edition of the International Mechanical Code with amendments; by amending Article 3.06 titled "Plumbing" by amending Division 2 titled "Plumbing Code" by adopting the 2009 edition of the International Plumbing code with amendments; by amending Article 3.07 titled "Electricity" by amending Division 3 titled "Electrical Code" by adopting the 2011 National Electrical Code with amendments; by amending Article 3.08 titled "Residential Code" by adopting the 2009 edition of the International Residential Code with amendments, save and except Sections R 324.1 through R 324.2 of the International Residential Code which remain unchanged to require Residential Fire Sprinklers; by amending Article 3.09 titled "Energy Conservation Code" by adopting the 2009 edition of the International Energy Conservation Code; by amending Article 3.10 titled "Fuel Gas Code" by adopting the 2009 edition of the International Fuel Gas Code with amendments. **[Development Services Director Joe Hilbourn]**

6. Consider Ordinance No. 2014-11-00799 of the City of Lucas, Texas, to adopt the 2009 Edition of the International Fire Code with amendments. **[Development Services Director Joe Hilbourn]**

7. Consider the resignation of Cathey Bonczar from the Board of Adjustments. **[Administrative Assistant Jennifer Faircloth]**

Public Hearings

- No public hearings are scheduled for this meeting.

Regular Agenda

8. Consider a Collector Street Project Presentation to include the following:

   a. Introduction by City Manager Joni Clarke;

   b. Project Scope by Public Work Directors Stanton Foerster, PE;

   c. Design Features & Cost Projection by Louis Frisbie, P.E., Metropolitan Infrastructure, PLLC.

   d. Financial Analysis by Mark M. McLiney, Senior Vice President, Southwest Securities; and

   e. Receive citizen comments and public input regarding streets.

   Discussion by City Council regarding the condition of streets and causes for street failure, design elements, funding strategies and provide guidance to staff regarding a potential street project, the parameters of the project, prioritization of specified streets and to provide feedback on establishing a timeline.

9. Discuss and consider 2014 Update of the Collin County Mobility Plan and how it relates to the City of Lucas Thoroughfare Plan. **[Mayor Pro Tem Kathleen Peele and Public Works Director Stanton Foerster]**

10. Presentation by Wendi Delgado regarding the methodology used to conduct a comprehensive market analysis and survey with discussion and direction from City Council regarding expectations and feedback on the process. **[City Manager Joni Clarke and HR Manager Cheryl Meehan]**

Executive Session

The City Council may convene in a closed Executive Session pursuant to Chapter 551, Subchapter D of the Texas Government Code.

- An Executive Session is not scheduled for this meeting.

Reconvene into Regular Session

11. Adjournment.

Certification

I hereby certify that the above notice was posted in accordance with the Texas Open Meetings Act on the bulletin board at Lucas City Hall, 665 Country Club Road, Lucas, TX 75002-7651 and on the City's website at www.lucastexas.us by 5:00 p.m. on Friday, November 14, 2014.

_____

Jennifer Faircloth, TRMC
Administrative Assistant

In compliance with the American with Disabilities Act, the City of Lucas will provide for reasonable accommodations for persons attending public meetings at City Hall.

Requests for accommodations or interpretive services should be directed to Jennifer Faircloth at 972-727-8999 or by email at jfaircloth@lucastexas.us at least 48 hours prior to the meeting.

LUCAS CITY COUNCIL

Meeting Date November 20, 2014

AGENDA ITEM:

- Call to Order
- Roll Call

	Present	Absent
Mayor Rebecca Mark	☐	☐
Seat 1 CM Wayne Millsap	☐	☐
Seat 2 CM Jim Olk	☐	☐
Seat 3 CM Steve Duke	☐	☐
Seat 4 CM Philip Lawrence	☐	☐
Seat 5 CM Debbie Fisher	☐	☐
Seat 6 MPT Kathleen Peele	☐	☐

- Determination of Quorum
- Reminder to silence cell phones
- Pledge of Allegiance

Informational Purposes

City Manager Joni Clarke	☐
City Secretary	☐
Public Works Director Stanton Foerster	☐
Finance Director Liz Exum	☐
HR Director Cheryl Meehan	☐
Fire Chief Jim Kitchens	☐
Development Services Director Joe Hilbourn	☐
City Attorney Joe Gorfida, Jr.	☐
Administrative Assistant Jennifer Faircloth	☐

City of Lucas
City Council Regular Meeting
November 20, 2014

Name & Title of Requestor: Administrative Assistant Jennifer Faircloth

Agenda Item:

Citizen's Input.

Background Information:

N/A

Attachments/Supporting Documentation:

N/A

Budget/Financial Impact:

N/A

Recommendation:

N/A

City of Lucas
City Council Regular Meeting
November 20, 2014

Name & Title of Requestor: Mayor Rebecca Mark

Agenda Item:

Items of Community Interest:

2. Presentation by Chief Jim Kitchens regarding MDA fundraising efforts by the Lucas Fire Department to assist with summer camp. **[Fire Chief Jim Kitchens]**
3. Discussion and update regarding the drought contingency plan, conservation efforts and watering restrictions as it pertains to the City of Lucas. **[Councilmember Debbie Fisher and Public Works Director Stanton Foerster]**

Background Information:

N/A

Attachments/Supporting Documentation:

N/A

Budget/Financial Impact:

N/A

Recommendation:

N/A

Item No. 04-07

City of Lucas
City Council Regular Meeting
November 6, 2014

Name & Title of Requestor: Administrative Assistant Jennifer Faircloth

Agenda Item:

Consent and approve:

4. The minutes from the November 6, 2014 City Council meeting. **[Administrative Assistant Jennifer Faircloth]**
5. Consider Ordinance No. 2014-11-00798 of the City of Lucas, Texas, amending the Code of Ordinances by amending Chapter 3 titled "Building Regulations" by amending Article 3.04 tilted "Building Code" by adopting the 2009 edition of the International Building Code with amendments; by amending Article 3.05 titled "Mechanical Code" by adopting the 2009 edition of the International Mechanical Code with amendments; by amending Article 3.06 titled "Plumbing" by amending Division 2 titled "Plumbing Code" by adopting the 2009 edition of the International Plumbing code with amendments; by amending Article 3.07 titled "Electricity" by amending Division 3 titled "Electrical Code" by adopting the 2011 National Electrical Code with amendments; by amending Article 3.08 titled "Residential Code" by adopting the 2009 edition of the International Residential Code with amendments, save and except Sections R 324.1 through R 324.2 of the International Residential Code which remain unchanged to require Residential Fire Sprinklers; by amending Article 3.09 titled "Energy Conservation Code" by adopting the 2009 edition of the International Energy Conservation Code; by amending Article 3.10 titled "Fuel Gas Code" by adopting the 2009 edition of the International Fuel Gas Code with amendments. **[Development Services Director Joe Hilbourn]**
6. Consider Ordinance No. 2014-11-00799 of the City of Lucas, Texas, to adopt the 2009 Edition of the International Fire Code with amendments. **[Development Services Director Joe Hilbourn]**
7. Consider the resignation of Cathey Bonczar from the Board of Adjustments. **[Administrative Assistant Jennifer Faircloth]**

Background Information:

N/A

Attachments/Supporting Documentation:

1. 04 Minutes from the November 6, 2014 City Council meetings.
2. 05 Ordinance # 2014-11-00798
3. 06 Ordinance # 2014-11-00799
4. Resignation letter

Budget/Financial Impact:

N/A

Recommendation:

Recommend approval.

Motion:

I make a Motion to **approve/deny** the Consent Agenda as presented.

City Council Meeting
November 6, 2014, 7:00 PM
City Hall - 665 Country Club Road
Minutes

Call to Order

Mayor Rebecca Mark called the meeting to order at 7:05 p.m.

Present:

Mayor Rebecca Mark	Mayor Pro Tem Kathleen Peele
Councilmember Wayne Millsap	Councilmember Jim Olk
Councilmember Steve Duke	Councilmember Philip Lawrence
Councilmember Debbie Fisher	

Staff:

City Manager Joni Clarke	Admin Assistant Jennifer Faircloth
City Attorney Joe Gorfida	Public Works Dir. Stanton Foerster
Development Svc. Dir. Joe Hilbourn	

It was determined that a quorum was present.
Everyone was reminded to turn off or silence cell phones.
City Manager Joni Clarke led everyone in saying the Pledge of Allegiance.

Citizens' Input

1) Citizens' Input.

Emma Redman who resides at 1930 Mary Lee, is in attendance to earn credit for a government class she is taking at Collin County Community College.

Community Interest

2) Items of Community Interest.

a. Discussion and update regarding the drought contingency plan, conservation efforts and watering restrictions as it pertains to the City of Lucas.

Public Works Director Stanton Foerster commented that on November 1st the City went back to a seasonal watering schedule allowing citizens to water every two weeks. In the past we used zones for watering days now we are using the home addresses. Basically now you could water on your trash collection day depending on the odd and evenness of the address and date of your trash is picked up.

Councilmember Debbie Fisher attended a North Texas Municipal Water District Board of Directors meeting in October. The bad news is Lake Lavon is one foot lower than this time last year. With the recent rain we have received, this has brought up the lake levels. Also, the feral hogs are back if you receive calls on this please check the past newsletter articles on our website for links that can assist with information.

b. Presentation of the Veteran's Day proclamation.

Mayor Rebecca Mark read the proclamation into the record.

Consent Agenda

The Consent Agenda was presented for consideration and action.

3) Consent and Approve:

a) The minutes from the October 16, 2014 and October 23, 2014 City Council meeting.

b) **Ordinance # 2014-11-00797** of the City of Lucas, Texas amending Chapter 6, Health and Sanitation by amending Article 6.04, Smoking, adding a new Article 6.06, Regulation of Electronic Vaping Devices; prohibit the sale and use of such devices by minors; provide for definition of electronic vaping devices and identify where the use of electronic vaping devices is prohibited.

c) **Ordinance # 2014-11-00798** of the City of Lucas, Texas, to adopt the 2009 Edition of the International Building Code.

d) **Ordinance # 2014-11-00799** of the City of Lucas, Texas, to adopt the 2009 Edition of the International Fire Code.

e) **Ordinance # 2014-11-00800** amending the City of Lucas' Comprehensive Plan by adding a new Thoroughfare Plan.

Councilmember Jim Olk indicated that item (c) the legal notice is posted to adopt the 2009 edition of the International Building Codes but behind that is the Plumbing Code, Mechanical Code, Fuel Gas Code, and Residential Code they are not listed as adopting those codes in the posting. I request that we pull items (c) and (d) off the Consent Agenda for discussion.

Mayor Rebecca Mark removed items (c) and (d) off the Consent Agenda leaving items (a), (b) and (e) for approval. Items (c) and (d) will be brought back on the Consent Agenda at the November 20, 2014 City Council meeting.

MOTION: Councilmember Jim Olk made a Motion to approve the Consent Agenda items (a), (b), and item (e). Councilmember Debbie Fisher seconded the Motion. Motion carried. Vote: 7-0.

Regular Agenda

4) A change in zoning from AO to C (Commercial Business) for annexed tract of land, 30 acres±, situated in the Ann S. Hurt Survey, Abstract No. 428 and the James Lovelady Survey, Abstract No. 538 and being all of a tract of land conveyed to Lovejoy Independent School District as recorded in volume 2002-0137893 of the Deed of Records Collin County, Texas, more commonly known as Willow Springs Middle School located at 1101 W. Lucas Road.

a) Presentation by Development Services Director Joe Hilbourn
b) Conduct 2nd Public Hearing (the 1st Public Hearing was held on November 6, 2014, 6:00 p.m. by the Planning & Zoning Commission).
c) Discuss and consider

Presentation by Development Services Director Joe Hilbourn.

The Public Hearing was opened at 7:30 p.m.

There was no one present to speak FOR/AGAINST this item.

The Public Hearing was close at 7:31 p.m.

MOTION: Councilmember Wayne Millsap made a Motion to approve a change in from AO to C (Commercial Business) for annexed tract of land, 30 acres±, situated in the Ann S. Hurt Survey, Abstract No. 428 and the James Lovelady Survey, Abstract No. 538 and being all of a tract of land conveyed to Lovejoy Independent School District as recorded in volume 2002-0137893 of the Deed of Records Collin County, Texas, more commonly known as Willow Springs Middle School located at 1101 W. Lucas Road. Councilmember Philip Lawrence seconded the Motion. Motion carried. Vote: 7-0.

5) A change in zoning from R-2 to C (commercial business) for a parcel of land, 0.9723 acres±, situated in the Jas Grayum Survey, Abstract No. A0354, Tract 50, more commonly known as 1820 Country Club.

a) Presentation by Development Services Director Joe Hilbourn.
b) Conduct 2nd Public Hearing (the 1st Public Hearing was held on November 6, 2014, 6:00 p.m. by the Planning & Zoning Commission.
c) Discuss and consider

Mayor Rebecca Mark pulled this item from the agenda the Planning and Zoning Commission denied this item during the November 6th Planning and Zoning meeting.

6) Consider the proposed regulations regarding the installation of fences, permitting of fences, requirements for fences, and style of fences.

Mayor Rebecca Mark pulled this item from the agenda the Planning and Zoning Commission tabled this item during the November 6th Planning and Zoning meeting until the next regularly scheduled meeting.

7) Consider Ordinance #2014-11-00801 concerning proposed changes to the City of Lucas Code of Ordinances, Chapter 12, Traffic and Vehicles.

MOTION: Councilmember Jim Olk made a Motion to approve Ordinance #2014-114-00801 amending the City of Lucas Code of Ordinance, Chapter 12, Traffic and Vehicles with the only amendment correcting the spelling of Hart Elementary. Mayor Pro Tem Kathleen Peele seconded the Motion. Motion carried. Vote: 7-0.

8) Consider providing feedback to staff regarding the 2014 Founder's Day event, and set a date for the 2015 Founder's Day event.

MOTION: Councilmember Debbie Fisher made a Motion to set the date of October 24, 2015 for the City of Lucas' Founder's Day event. Councilmember Steve Duke seconded the Motion. Motion carried. Vote: 7-0.

9) Consider the appointment of Randy Barnes to serve on the Board of Adjustments for a two (2) year term, term being November 1, 2014 through October 31, 2016.

MOTION: Mayor Pro Tem Kathleen Peele made a Motion to appoint Randy Barnes to serve on the Board of Adjustments for a two (2) year term, term being November 1, 2014 through October 31, 2016. Councilmember Jim Olk seconded the Motion. Motion carried. Vote: 7-0.

Executive Session

The City Council convened into Executive Session at 7:58 p.m.

10) The City Council pursuant to Section 551.074(a)(1) of the Texas Government Code (Personnel Matters) may convene into Executive Session to deliberate the employment, reassignment, duties, discipline, or dismissal of the City Secretary.

Regular Agenda

The City Council reconvened into Regular Session at 9:03 p.m.

11) Take any action as necessary as a result of the Executive Session.

MOTION: Mayor Rebecca Mark made a Motion to remove the City Secretary, Kathy Wingo from her employment with the City of Lucas. This removal is for cause specifically job abandonment. I further instruct the City Manager to document that she is not eligible for rehire. Mayor Pro Tem Kathleen Peel seconded the Motion. Motion carried. Vote: 7-0.

MOTION: Mayor Rebecca Mark made a Motion to appoint Joni Clarke as Interim City Secretary and give authority to Ms. Clarke to delegate the duties as she deems necessary. Councilmember Wayne Millsap seconded the Motion. Motion carried. Vote: 7-0.

12) Adjournment.

MOTION: Councilmember Wayne Millsap made a Motion to adjourn the meeting at 9:05. Councilmember Steve Duke seconded the Motion. Motion carried. Vote: 7-0.

These minutes were approved by a majority vote of the City Council on November 20, 2014.

_____

Rebecca Mark
Mayor

ATTEST:

_____

Jennifer Faircloth, TRMC
Administrative Assistant

☐ Annexation
☐ Disannexation
☒ Code of Ordinances
☐ Other

ORDINANCE # 2014-11-00798
[ADOPTING 2009 INTERNATIONAL CODES]

AN ORDINANCE OF THE CITY OF LUCAS, TEXAS, AMENDING THE CODE OF ORDINANCES BY AMENDING CHAPTER 3 TITLED "BUILDING REGULATIONS" BY AMENDING ARTICLE 3.04 TITLED "BUILDING CODE" BY ADOPTING THE 2009 EDITION OF THE INTERNATIONAL BUILDING CODE WITH AMENDMENTS; BY AMENDING ARTICLE 3.05 TITLED "MECHANICAL CODE" BY ADOPTING THE 2009 EDITION OF THE INTERNATIONAL MECHANICAL CODE WITH AMENDMENTS; BY AMENDING ARTICLE 3.06 TITLED "PLUMBING" BY AMENDING DIVISION 2 TITLED "PLUMBING CODE" BY ADOPTING THE 2009 EDITION OF THE INTERNATIONAL PLUMBING CODE WITH AMENDMENTS; BY AMENDING ARTICLE 3.07 TITLED "ELECTRICITY" BY AMENDING DIVISION 3 TITLED "ELECTRICAL CODE" BY ADOPTING THE 2011 NATIONAL ELECTRICAL CODE WITH AMENDMENTS; BY AMENDING ARTICLE 3.08 TITLED "RESIDENTIAL CODE" BY ADOPTING THE 2009 EDITION OF THE INTERNATIONAL RESIDENTIAL CODE WITH AMENDMENTS, SAVE AND EXCEPT SECTIONS R324.1 THROUGH R324.2 OF THE 2003 INTERNATIONAL RESIDENTIAL CODE WHICH REMAIN UNCHANGED TO REQUIRE RESIDENTIAL FIRE SPRINKLERS; BY AMENDING ARTICLE 3.09 TITLED "ENERGY CONSERVATION CODE" BY ADOPTING THE 2009 EDITION OF THE INTERNATIONAL ENERGY CONSERVATION CODE; BY AMENDING ARTICLE 3.10 TITLED "FUEL GAS CODE" BY ADOPTING THE 2009 EDITION OF THE INTERNATIONAL FUEL GAS CODE WITH AMENDMENTS; PROVIDING A REPEALING CLAUSE; PROVIDING A SEVERABILITY CLAUSE; PROVIDING A SAVINGS CLAUSE; PROVIDING FOR A PENALTY OF FINE NOT TO EXCEED TWO THOUSAND DOLLARS ($2,000.00); AND PROVIDING FOR AN EFFECTIVE DATE.

NOW, THEREFORE, BE IT ORDAINED THAT THE CITY COUNCIL OF THE CITY OF LUCAS:

Section 1. That the City Council of the City of Lucas, Texas, hereby adopts the 2009 editions of the International Building Code, International Mechanical Code, International Plumbing Code, International Residential Code, International Energy Conservation Code, International Fuel Gas Code; and, the 2011 edition of the National Electrical Code, together with certain amendments to each of said codes, as the codes for:

(1) regulating the erection, construction, enlargement, alteration, repair, moving, removal, demolition, conversion, occupancy, equipment, use, height, area and maintenance of all buildings or structures in the city; and

(2) providing for issuance of permits and collection of fees for such permits. All such fees, unless otherwise specified herein, shall be charged, assessed and collected in the amounts and rates set forth in the City's Master Fee Schedule.

Section 2. That the Code of Ordinances of the City of Lucas, Texas be, and the same is, hereby amended by amending Chapter 3 titled "Building Regulations", by amending Article 3.04 titled "Building Code", to read as follows:

"CHAPTER 3

BUILDING REGULATIONS

. . .

ARTICLE 3.04 BUILDING CODE

Sec. 3.04.001 Adopted

The International Building Code, 2009 edition, as published by the International Code Council, is hereby adopted by reference. Unless deleted, amended, expanded or otherwise changed herein, all provisions of such code shall be fully applicable and binding.

Sec. 3.04.002 Amendments

Section 101.4; change to read as follows:

101.4 Referenced codes. The other codes listed in Sections 101.4.1 through 101.4.6 and referenced elsewhere in this code, when specifically adopted, shall be considered part of the requirements of this code to the prescribed extent of each such reference. 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 Electrical Code shall mean the Electrical Code as adopted.

Section 101.4.7; add the following:

101.4.7 Electrical. The provisions of the Electrical Code shall apply to the installation of electrical systems, including alterations, repairs, replacement, equipment, appliances, fixtures, fittings and appurtenances thereto.

Section 103 and 103.1 amend to insert the Department Name

SECTION 103

~~DEPARTMENT OF BUILDING SAFETY~~ CITY OF LUCAS DEVELOPMENT SERVICES DEPARTMENT

103.1 Creation of enforcement agency. The ~~Department of Building Safety~~ City of Lucas Development Services Department is hereby created and the official in charge thereof shall be known as the *building official.*

Section 109; add Section 109.7 to read as follows:

109.7 Re-inspection Fee. A fee as established by city council resolution may be charged when:

1. The inspection called for is not ready when the inspector arrives;

2. No building address or permit card is clearly posted;
3. City approved plans are not on the job site available to the inspector;

4. The building is locked or work otherwise not available for inspection when called;

5. The job site is red-tagged twice for the same item;

6. The original red tag has been removed from the job site.

7. Failure to maintain erosion control, trash control or tree protection.

Any re-inspection fees assessed shall be paid before any more inspections are made on that job site.

Section 109; add Section 109.8, 109.8.1, 109.8.2 and 109.9 to read as follows:

109.8 Work without a permit.

109.8.1 Investigation. Whenever work for which a permit is required by this code has been commenced without first obtaining a permit, a special investigation shall be made before a permit may be issued for such work.

109.8.2 Fee. An investigation fee, in addition to the permit fee, shall be collected whether or not a permit is subsequently issued. The investigation fee shall be equal to the amount of the permit fee required by this code or the city fee schedule as applicable. The payment of such investigation fee shall not exempt the applicant from compliance with all other provisions of either this code or the technical codes nor from penalty prescribed by law.

109.9 Unauthorized cover up fee. Any work concealed without first obtaining the required inspection in violation of section 110 shall be assessed a fee as established by the city fee schedule.

Section 110.3.5; jurisdiction has the option to delete depending on local inspection policies.

Section 304.1; add the following to the list of occupancies:

Fire stations
Police stations with detention facilities for 5 or less

Section 307.1; add the following to Exception 4:

4. Cleaning establishments... *{text unchanged}* ...with Section 712, or both. See also IFC chapter 12, Dry Cleaning Plant provisions.

Section 310.1; amend second paragraph under R-3 as follows:

Adult care and child care facilities with 5 or fewer unrelated persons that are within a single-family home are permitted to comply with the *International Residential Code*.

Section 403.1, Exception 3; change to read as follows:

3. Open air portions of buildings ~~Buildings~~ with a Group A-5 occupancy in accordance with Section 303.1.

Section 403.3, Exception; delete item 2.

Section 404.1.1; change definition of "Atrium" as follows:

ATRIUM. An opening connecting ~~two~~ three or more stories...*{Balance remains unchanged}*

Section 404.5; delete Exception.

Section 406.1.2; add item 3 to read as follows:

3. A separation is not required between a Group R-2 and U carport provided that the carport is entirely open on all sides and that the distance between the two is at least 10 feet (3048 mm).

Section 406.6.1; add a second paragraph to read as follows:

This occupancy shall also include garages involved in minor repair, modification and servicing of motor vehicles for items such as lube changes, inspections, windshield repair or replacement, shocks, minor part replacement and other such minor repairs.

Section 506.2.2; add a sentence to read as follows:

506.2.2 Open space limits. Such open space shall be either on the same lot or dedicated for public use and shall be accessed from a street or *approved fire lane*. In order to be considered as accessible, if not in direct contact with a street or *fire lane*, a minimum 10-foot wide pathway meeting fire department access from the street or *approved fire lane* shall be provided.

Section 508.2.5, add a sentence at the end of paragraph:

508.2.5 Separation of incidental accessory occupancies. The incidental accessory occupancies listed in Table 508.2.5 shall be separated from the remainder of the building or equipped with an automatic fire-extinguishing system, or both, in accordance with Table 508.2.5. An incidental accessory occupancy shall be classified in accordance with the occupancy of that portion of the building in which it is located.

{Exception unchanged}

Section 708.2, Exception 7; amend item 7.3 and delete items 7.4 and 7.5 and renumber as follows:

7.1. Does not connect more than two stories.

7.2. Is not part of the required means of egress system except as permitted in Section 1022.1.

7.3. Is not concealed within the building construction of a wall or a floor/ceiling assemble.

~~7.4. Is not open to a *corridor* in Group I and R occupancies.~~

~~7.5. Is not open to a *corridor* on nonsprinklered floors in any occupancy.~~

~~7.6.~~ 7.4 Is separated from floor openings and air transfer openings serving other floors by construction conforming to required shaft enclosures.

~~7.7.~~ 7.5 Is limited to the same smoke compartment.

Section 903.1.1; change to read as follows:

[F] 903.1.1 Alternative protection. Alternative automatic fire-extinguishing systems complying with Section 904 shall be permitted in ~~lieu of~~ addition to automatic sprinkler protection where recognized by the applicable standard, or as approved by the fire code official.

Section 903.2; change to read as follows:

[F] 903.2 Where required. *Approved automatic sprinkler systems* in new buildings and structures shall be provided in the locations described in Section 903.2.1 through 903.2.12.

Automatic sprinklers shall not be installed in elevator machine rooms, elevator machine spaces, and elevator hoist ways. Storage shall not be allowed within the elevator machine room. Signage shall be provided at the entry doors to the elevator machine room indicating "ELEVATOR MACHINERY – NO STORAGE ALLOWED".

~~Exception:~~ *{text of exception deleted}*

Section 903.2.9; add Section 903.2.9.3 to read as follows:

[F] 903.2.9.3 Self-service storage facility. An *automatic sprinkler system* shall be installed throughout all self-service storage facilities.

Exception: One-story self-service storage facilities that have no interior corridors, with a one-hour fire barrier separation wall installed between every storage compartment.

Section 903.2.11; amend 903.2.11.3 and add 903.2.11.7 and 903.2.11.8, as follows:

[F] 903.2.11.3 Buildings 55 feet or more in height. An *automatic sprinkler system* shall be installed throughout buildings with a floor level, other than penthouses in compliance with Section 1509 of the *International Building Code*, ~~having an occupant load of 30 or more~~ that is located 55 feet (16 764 mm) or more above the lowest level of fire department vehicle access.

Exceptions:

~~1. Airport control towers.~~

~~2.~~ Open parking structures in compliance with Section 406.3 of the Building Code.

~~3. Occupancies in Group F-2.~~

{text of Sections 903.2.11.4 through 903.2.11.6 unchanged}

[F] 903.2.11.7 High-Piled Combustible Storage. For any building with a clear height exceeding 12 feet (4572 mm), see Chapter 23 to determine if those provisions apply.

[F] 903.2.11.8 Spray Booths and Rooms. New and existing spray booths and spraying rooms shall be protected by an approved automatic fire-extinguishing system.

Section 903.3.1.1.1; change to read as follows:

[F] 903.3.1.1.1 Exempt locations. When approved by the *fire code official*, automatic sprinklers shall not be required in the following rooms or areas where such... *{text unchanged}* ...because it is damp, of fire-resistance-rated construction or contains electrical equipment.

1. Any room where the application of water, or flame and water, constitutes a serious life or fire hazard.

2. Any room or space where sprinklers are considered undesirable because of the nature of the contents, when approved by the code official.

3. Generator and transformer rooms, under the direct control of a public utility, separated from the remainder of the building by walls and floor/ceiling or roof/ceiling assemblies having a fire-resistance rating of not less than 2 hours.

4. ~~In rooms or areas that are of noncombustible construction with wholly noncombustible contents.~~

5. ~~Fire service access~~ Elevator machine rooms, machinery spaces, and hoistways.

Section 903.3.1.3; add the following:

[F] 903.3.1.3 NFPA 13D sprinkler systems. Where allowed, *automatic sprinkler systems* installed in one- and two-family *dwellings* and *townhouses* shall be installed throughout in accordance with NFPA 13D or in accordance with state law.

Section 903.3.5; add a second paragraph to read as follows:

[F] 903.3.5 Water supplies. Water supplies for *automatic sprinkler systems* shall comply with this section and the standards referenced in Section 903.3.1. The potable water supply shall be protected against backflow in accordance with the requirements of this section and the *International Plumbing Code*.

Water supply as required for such systems shall be provided in conformance with the supply requirements of the respective standards; however, every fire protection system shall be designed with a 10 psi safety factor.

Section 903.4; add a second paragraph after the exceptions to read as follows:

Sprinkler and standpipe system water-flow detectors shall be provided for each floor tap to the sprinkler system and shall cause an alarm upon detection of water flow for more than 45 seconds. All control valves in the sprinkler and standpipe systems except for fire department hose connection valves shall be electrically supervised to initiate a supervisory signal at the central station upon tampering.

Section 903.4.2; add a second paragraph to read as follows:

The alarm device required on the exterior of the building shall be a weatherproof horn/strobe notification appliance with a minimum 75 candela strobe rating, installed as close as practicable to the fire department connection.

Section 903.6; add Section 903.6.3 to read as follows:

[F] 903.6.3 Spray booths and rooms. New and existing spray booths and spray rooms shall be protected by an *approved* automatic fire-extinguishing system in accordance with Section 1504.

Section 905.2; change to read as follows:

[F] 905.2 Installation standard. Standpipe systems shall be installed in accordance with this section and NFPA 14. Manual dry standpipe systems shall be supervised with a minimum of 10 psig and a maximum of 40 psig air pressure with a high/low alarm.

Section 905.3; add Section 905.3.8 with exception to read as follows:

[F] 905.3.8 Building area. In buildings exceeding 10,000 square feet in area per story, Class I automatic wet or manual wet standpipes shall be provided where any portion of the building's interior area is more than 200 feet (60960 mm) of travel, vertically and horizontally, from the nearest point of fire department vehicle access.

Exception: Automatic dry and semi-automatic dry standpipes are allowed as provided for in NFPA 14.

Section 905.4, item 5; change to read as follows:

5. Where the roof has a slope less than four units vertical in 12 units horizontal (33.3-percent slope), each standpipe shall be provided with a two-way hose connection located either… *{remainder of text unchanged}.*

Section 905.4; add the following item 7:

7. When required by this Chapter, standpipe connections shall be placed adjacent to all required exits to the structure and at two hundred feet (200') intervals along major corridors thereafter.

Section 905.9; add a second paragraph after the exceptions to read as follows:

Sprinkler and standpipe system water-flow detectors shall be provided for each floor tap to the sprinkler system and shall cause an alarm upon detection of water flow for more than 45 seconds. All control valves in the sprinkler and standpipe systems except for fire department hose connection valves shall be electrically supervised to initiate a supervisory signal at the central station upon tampering.

Section 906.1 {Where required}; change Exception to item 1 as follows:

Exception: ~~In new and existing Group A, B and E occupancies equipped throughout with quick response sprinklers, portable fire extinguishers shall be required only in locations specified in Items 2 through 6.~~ In R-2 occupancies, portable fire extinguishers shall be required only in locations specified in Items 2. through 6. where each dwelling unit is provided with a portable fire extinguisher having a minimum rating of 1-A:10-B:C.

Section 907.1; add Section 907.1.4 to read as follows:

[F] 907.1.4 Design Standards. All alarm systems, new or replacement, shall be addressable. Alarm systems serving more than 20 smoke detectors shall be analog addressable.

Exception: Existing systems need not comply unless the total building remodel or expansion initiated after the effective date of this code, as adopted, exceeds 30% of the building. When cumulative building remodel or expansion exceeds 50% of the building, compliance is required within 18 months of permit application.

Section 907.2.1; change to read as follows:

[F] 907.2.1 Group A. A manual fire alarm system that activates the occupant notification system in accordance with new Section 907.6 shall be installed in Group A occupancies having an occupant load of 300 or more persons or more than 100 persons above or below the lowest level of exit discharge. Portions of Group E occupancies occupied for assembly purposes shall be provided with a fire alarm system as required for the Group E occupancy. Activation of fire alarm notification appliances shall:

1. Cause illumination of the *means of egress* with light of not less than 1 foot-candle (11 lux) at the walking surface level, and

2. Stop any conflicting or confusing sounds and visual distractions.

{exception unchanged}

Section 907.2.3; change to read as follows:

[F] 907.2.3 Group E. A manual fire alarm system that activates the occupant notification system in accordance with Section 907.6 shall be installed in Group E educational occupancies. When *automatic sprinkler systems* or smoke detectors are installed, such systems or detectors shall be connected to the building fire alarm system. An *approved* smoke detection system shall be installed in Group E day care occupancies. Unless separated by a minimum of 100' open space, all buildings, whether portable buildings or the main building, will be considered one building for alarm occupant load consideration and interconnection of alarm systems.

Section 907.2.3; change exception 1 and add exception 1.1 to read as follows:

Exceptions:

1. A manual fire alarm system is not required in Group E educational and day care occupancies with an occupant load of less than 50 when provided with an approved automatic sprinkler system.

1.1. Residential In-Home day care with not more than 12 children may use interconnected single station detectors in all habitable rooms. (For care of more than five children 2 1/2 or less years of age, see Section 907.2.6.)

{remaining exceptions unchanged}

Section 907.2.13; *{text unchanged}*

Section 907.2.13, Exception 3; change to read as follows:

3. Buildings with an occupancy in Group A-5 in accordance with Section 303.1 of the *International Building Code*, when used for open air seating; however, this exception does not apply to accessory uses including but not limited to sky boxes, restaurants and similarly enclosed areas.

Section 907.5.2; add Section 907.5.2.6 to read as follows:

[F] 907.5.2.6 Type. Manual alarm initiating devices shall be an approved double action type.

Section 907.7.1; add Section 907.7.1.1 to read as follows:

[F] 907.7.1.1 Installation. All fire alarm systems shall be installed in such a manner that a failure of any single initiating device or single open in an initiating circuit conductor will not interfere with the normal operation of other such devices. All initiating circuit conductors shall be Class "A" wired with a minimum of six feet separation between supply and return circuit conductors. IDC – Class "A" Style D; SLC - Class "A" Style 6; NAC - Class "B" Style Y. The IDC from an addressable device used to monitor the status of a suppression system may be wired Class B, Style B provided the distance from the addressable device is within 10-feet of the suppression system device.

Section 907.7.5; add Section 907.7.5.2 to read as follows:

[F] 907.7.5.2 Communication Requirements. All alarm systems, new or replacement, shall transmit alarm, supervisory and trouble signals descriptively to the approved central station, remote supervisory station or proprietary supervising station as defined in NFPA 72, with the correct device designation and location of addressable device identification. Alarms shall not be permitted to be transmitted as a General Alarm or Zone condition.

Section 910.1; change Exception 2 to read as follows:

2. Where areas of buildings are equipped with early suppression fast-response (ESFR) sprinklers, ~~automatic~~ only manual smoke and heat vents shall ~~not~~ be required within these areas. Automatic smoke and heat vents are prohibited.

Section 910.2; add Section 910.2.3 with exceptions and 910.2.4 to read as follows:

910.2.3 Group H. Buildings and portions thereof used as a Group H occupancy as follows: 1. In occupancies classified as Group H-2 or H-3, any of which are more than 15,000 square feet (1394 m^2) in single floor area.

Exceptions:

1. Buildings of noncombustible construction containing only noncombustible materials.

2. In areas of buildings in Group H used for storing Class 2, 3 and 4 liquid and solid oxidizers, Class 1 and unclassified detonable organic peroxides, Class 3 and 4 unstable (reactive) materials, or Class 2 or 3 water-reactive materials as required for a high-hazard commodity classification.

910.2.4 Exit access travel distance increase. Buildings and portions thereof used as a Group F-1 or S-1 occupancy where the maximum exit access travel distance is increased in accordance with Section 1016.3.

Table 910.3; change the title of the first row of the table from "Group F-1 and S-1" to include "Group H" and to read as follows:

Group H, F-1 and S-1

Section 910.3.2.2; add second paragraph to read as follows:

The automatic operating mechanism of the smoke and heat vents shall operate at a temperature rating at least 100 degrees F (approximately 38 degrees Celsius) greater than the temperature rating of the sprinklers installed.

Section 912.2; add Section 912.2.3 to read as follows:

[F] 912.2.3 Hydrant distance. An *approved* fire hydrant shall be located within 100 feet of the fire department connection as the fire hose lays.

Section 913.1; add second paragraph and exception to read as follows:

When located on the ground level at an exterior wall, the fire pump room shall be provided with an exterior fire department access door that is not less than 3 ft. in width and 6 ft. – 8 in.

in height, regardless of any interior doors that are provided. A key box shall be provided at this door, as required by Section 506.1.
Exception: When it is necessary to locate the fire pump room on other levels or not at an exterior wall, the corridor leading to the fire pump room access from the exterior of the building shall be provided with equivalent fire resistance as that required for the pump room, or as approved by the *fire code official*. Access keys shall be provided in the key box as required by Section 506.1.

Section 1004.1.1; delete exception:

1004.1.1 Areas without fixed seating. The number of occupants shall be computed at the rate of one occupant per unit of area as prescribed in Table 1004.1.1. For areas without fixed seating, the occupant load shall not be less than that number determined by dividing the floor area under consideration by the occupant per unit of area factor assigned to the occupancy as set forth in Table 1004.1.1. Where an intended use is not listed in Table 1004.1.1, the building official shall establish a use based on a listed use that most nearly resembles the intended use.

~~Exception: Where approved by the building official, the actual number of occupants for whom each occupied space, floor or building is designed, although less than those determined by calculation, shall be permitted to be used in the determination of the design occupant load.~~

Section 1007.1; add the following Exception 4:

Exceptions:

{previous exceptions unchanged}

4. Buildings regulated under State Law and built in accordance with State registered plans, including any variances or waivers granted by the State, shall be deemed to be in compliance with the requirements of Section 1007.

Section 1008.1.9.3; Locks and Latches; add condition as follows:

1008.1.9.3, Locks and latches. Locks and latches shall... *{text unchanged}*...any of the following exists:

{text of conditions 1 through 3 unchanged}

3.1 Where egress doors are used in pairs and positive latching is required, approved automatic flush bolts shall be permitted to be used, provided that both leaves achieve positive latching regardless of the closing sequence and the door leaf having the automatic flush bolts has no doorknobs or surface mounted hardware.

{text of conditions 4 and 5 unchanged}

Section 1008.1.9.4; amend exceptions 3 and 4 as follows:

Exceptions: *{Text of Exceptions 1 and 2 unchanged}*

3. Where a pair of doors serves an *occupant load* of less than 50 persons in a Group B, F, M or S occupancy, *{remaining text unchanged}*

4. Where a pair of doors serves a Group B, F, M or S occupancy, *{remaining text unchanged}*

Section 1008.1.9.8; change to read as follows:

1008.1.9.8 Electromagnetically locked egress doors. Doors in the *means of egress* that are not otherwise required to have panic hardware in buildings with an occupancy in Group A, B, E, I-1, I-2, M, R-1 or R-2 and doors to tenant spaces in Group A, B, E, I-1, I-2, M, R-1 or R-2 shall be permitted to be electromagnetically locked if equipped with *listed* hardware that incorporates a built-in switch and meet the requirements below: *{remaining text unchanged}*

Section 1015; add new section 1015.7 to read as follows:

1015.7 Electrical Rooms. For electrical rooms, special exiting requirements may apply. Reference the electrical code as adopted.

Section 1016; add new section 1016.3 to read as follows:

1016.3. Roof Vent Increase. In buildings that are one story in height, equipped with automatic heat and smoke roof vents complying with Section 910 and equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1, the maximum exit access travel distance shall be 400 feet for occupancies in Group F-1 or S-1.

Section 1018.1; add exception 5 to read as follows:

{previous text unchanged}

5. In Group B office buildings, corridor walls and ceilings need not be of fire-resistive construction within office spaces of a single tenant when the space is equipped with an approved automatic fire alarm system within the corridor. The actuation of any detector shall activate alarms audible in all areas served by the corridor.

Section 1018.6; amend to read as follows:

1018.6, Corridor Continuity. ~~Fire-Resistance-Rated~~ All corridors shall be continuous from the point of entry to an *exit,* and shall not be interrupted by intervening rooms.

{Exception unchanged}

Section 1022.1; add exceptions 8 and 9 to read as follows:

{previous text unchanged}

8. In other than occupancy Groups H and I, a maximum of 50 percent of egress stairways serving one adjacent floor are not required to be enclosed, provided at least two means of egress are provided from both floors served by the unenclosed stairways. Any two such interconnected floors shall not be open to other floors.

9. In other than occupancy Groups H and I, interior egress stairways serving only the first and second stories of a building equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 are not required to be enclosed, provided at least two means of egress are provided from both floors served by the unenclosed stairways. Such interconnected stories shall not be open to other stories.

Section 1022.9; *{text unchanged}*

Section 1024.1; *{text unchanged}*

Section 1026.6; amend exception 4 to read as follows:

Exceptions: *{Exceptions 1 through 3 unchanged}*

3. Separation from the ~~interior~~ open-ended *corridors* of the building... *{remaining text unchanged}*

Section 1101.2; add an exception to read as follows:

Exception: Buildings regulated under State Law and built in accordance with State registered plans, including any variances or waivers granted by the State, shall be deemed to be in compliance with the requirements of this Chapter.

Table 1505.1; replace footnotes b and c with the following:

~~b. All individual replacement shingles or shakes shall be in compliance with the rating required by this table.~~

~~c~~b. Non-classified roof coverings shall be permitted on buildings of U occupancies having not more than 120 sq.ft. of projected roof area. When exceeding 120 sq.ft of projected roof area, buildings of U occupancies may use non-rated non-combustible roof coverings.

Section 1505.7; delete the section.

Section 1510.1; add a sentence to read as follows:

1510.1 General. Materials and methods of applications used for recovering or replacing an existing roof covering shall comply with the requirements of Chapter 15. All individual replacement shingles or shakes shall be in compliance with the rating required by Table 1505.1.

{text of exception unchanged}

Section 2308.4; add Section 2308.4.3 to read as follows:

2308.4.3 Application to engineered design. When accepted by the Building Official, any portion of this section is permitted to apply to buildings that are otherwise outside the limitations of this section provided that:

1. The resulting design will comply with the requirements specified in Chapter 16;

2. The load limitations of various elements of this section are not exceeded; and

3. The portions of this section which will apply are identified by an engineer in the construction documents.

Section 2901.1; add a sentence to read as follows:

[P] 2901.1 Scope. The provisions of ths chapter and the... *{text unchanged}* ...conform to the *International Private Sewage Disposal Code.* The provisions of this Chapter are meant to work in coordination with the provisions of Chapter 4 of the International Plumbing Code. Should any conflicts arise between the two chapters, the Building Official shall determine which provision applies.

Section 2902.1; change to read as follows and add sub sections:

[P]2902.1 Minimum number of fixtures. Plumbing fixtures shall be provided for the type of occupancy and in the minimum number as follows:

1. 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.

2. Groups A, B, F, H, I, M and S Occupancies: Buildings or portions thereof where persons are employed shall be provided with at least one water closet for each sex except as provided for in Section 2902.2.

3. Group E Occupancies: Shall be provided with fixtures as shown in Table 2902.1.

4. Group R Occupancies: Shall be provided with fixtures as shown in Table 2902.1. It is recommended, but not required, that the minimum number of fixtures provided also comply with the number shown in Table 2902.1. Types of occupancies not shown in Table 2902.1 shall be considered individually by the *building official*. The number of occupants shall be determined by this code. Occupancy classification shall be determined in accordance with Chapter 3.

Section 2092.2; change Exception 3 as follows:

3. Separate facilities shall not be required in mercantile occupancies in which the maximum *occupant load* is ~~50~~ 100 or less.

Section 3006.1; add Section 3006.1 to read as follows and renumber remaining sections:

3006.1, General. Elevator machine rooms shall be provided."

{Renumber remaining sections.}

Section 3006.4 {3006.5 if previous amendment adopted}; add a sentence to read as follows and delete exceptions 1 and 2:

[F] 3006.4. Machine Rooms: *{text unchanged}*... Storage shall not be allowed within the elevator machine room. Provide approved signage at each entry door to the elevator machine room stating "*Elevator Machinery – No Storage Allowed.*"

Section 3109.1; change to read as follows:

3109.1 General. Swimming pools shall comply with the requirements of this section and other applicable sections of this code as well as also complying with applicable state laws.

..."

Section 3. That the Code of Ordinances of the City of Lucas, Texas be, and the same is, hereby amended by amending Chapter 3 titled "Building Regulations", by amending Article 3.05 titled "Mechanical Code", to read as follows:

"ARTICLE 3.05 MECHANICAL CODE

Sec. 3.05.001 Adopted

The International Mechanical Code, 2009 edition, as published by the International Code Council, is hereby adopted by reference. Unless deleted, amended, expanded or otherwise changed herein, all provisions of such code shall be fully applicable and binding.

Section 3.05.002 Amendments

Section 102.8; change to read as follows:

102.8 Referenced codes and standards. The codes and standards referenced herein shall be those that are listed in Chapter 15 and such codes, when specifically adopted, and standards shall be considered part of the requirements of this code to the prescribed extent of each such reference. Where differences occur between provisions of this code and the referenced standards, the provisions of this code shall apply. 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.

Section 304.6; delete.

Section 306.3; change to read as follows:

306.3 Appliances in attics. Attics containing appliances requiring *access* shall be provided . . . *{bulk of paragraph unchanged}* . . . side of the appliance. 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 largest appliance. As a minimum, for *access* to the attic space, provide one of the following:

1. A permanent stair.

2. A pull down stair with a minimum 300 lb (136 kg) capacity.

3. An *access* door from an upper floor level.

4. *Access* Panel may be used in lieu of items 1, 2, and 3 with prior approval of the code official due to building conditions.

Exceptions:

1. The passageway and level service space are not required where the appliance is capable of being serviced and removed... *{remainder of section unchanged}*

Section 306.5; change to read as follows:

306.5 Equipment and appliances on roofs or elevated structures. Where *equipment* requiring *access* and appliances are installed on roofs or elevated structures at ~~a~~ an aggregate height exceeding 16 feet (4877 mm), such *access* shall be provided by a permanent *approved* means of *access*.~~, the extent of which shall be from~~ Permanent exterior ladders providing roof *access* need not extend closer than ~~8~~ 12 feet (2438 mm) to the finish grade or floor level below and shall extend to the *equipment* and appliances' level service space. Such *access*

shall . . . *{language unchanged}*. . . on roofs having a slope greater than 4 units vertical in 12 units horizontal (33-percent slope). ... *{remaining language unchanged}*.

Section 306.5.1; change to read as follows:

306.5.1 Sloped roofs. Where appliances, *equipment*, fans or other components that require service are installed ~~on a roof having a slope of 3 units vertical in 12 units horizontal (25-percent slope) or greater~~ on roofs having slopes greater than 4 units vertical in 12 units horizontal and having an edge more than 30 inches (762 mm) above grade at such edge, a catwalk at least 16 inches in width with substantial cleats spaced not more than 16 inches apart shall be provided from the roof *access* to a level platform at the appliance. The level platform shall be provided on each side of the appliance to which *access* is required for service, repair or maintenance. The platform shall be not less than 30 inches (762 mm) in any dimension and shall be provided with guards. The guards shall extend not less than 42 inches (1067 mm) above the platform, shall be constructed so as to prevent the passage of a 21-inch-diameter (533 mm) sphere and shall comply with the loading requirements for guards specified in the *International Building Code*.

Section 306; add Section 306.6 to read as follows:

306.6 Water heaters above ground or floor. When the 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.

306.6.1 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 306.3.1.

Section 307.2.2; change to read as follows:

307.2.2 Drain pipe materials and sizes. Components of the condensate disposal system shall be cast iron, galvanized steel, copper, cross-linked polyethylene, polybutylene, polyethylene, ABS, CPVC or schedule 80 PVC pipe or tubing when exposed to ultra violet light. All components shall be selected for the pressure, ~~and~~ temperature, and exposure rating of the installation.

{Remaining language unchanged}

Section 307.2.3; amend item 2 to read as follows:

2. A separate overflow drain line shall be connected to the drain pan provided with the equipment. Such overflow drain shall discharge to a conspicuous point of disposal to alert occupants in the event of a stoppage of the primary drain. The overflow drain line shall connect to the drain pan at a higher level than the primary drain connection. However, the conspicuous point shall not create a hazard such as dripping over a walking surface or other areas so as to create a nuisance.

Section 403.2.1; add an item 5 to read as follows:

5. Toilet rooms within private dwellings that contain only a water closet, lavatory or combination thereof may be ventilated with an *approved* mechanical recirculating fan or similar device designed to remove odors from the air.

Section 501.2; add an exception to read as follows:

501.2 Exhaust discharge. The air removed by every mechanical exhaust system shall be discharged outdoors at a point where it will not cause a nuisance and not less than the distances specified in Section 501.2.1. The air shall be discharged to a location from which it cannot again be readily drawn in by a ventilating system. Air shall not be exhausted into an attic or crawl space.

Exceptions:

1. Whole-house ventilation-type attic fans shall be permitted to discharge into the attic space of dwelling units having private attics.

2. Commercial cooking re-circulating systems.

3. Toilet room exhaust ducts may terminate in a warehouse or shop area when infiltration of outside air is present.

Section 504.6; add a sentence at the end of the paragraph to read as follows:

504.6 Domestic clothes dryer ducts. Exhaust ducts for domestic clothes dryers shall conform to the requirements of Sections 504.6.1 through 504.6.7. The size of duct shall not be reduced along its developed length nor at the point of termination.

Section 607.5.1; change to read as follows:

607.5.1 Fire Walls. Ducts and air transfer openings permitted in fire walls in accordance with Section 705.11 of the International Building Code shall be protected with listed fire dampers installed in accordance with their listing. For hazardous exhaust systems see Section 510.1-510.9 IMC.

. . . "

Section 4. That the Code of Ordinances of the City of Lucas, Texas be, and the same is, hereby amended by amending Chapter 3 titled "Building Regulations", by amending Article 3.06 titled "Plumbing" by amending Division 2 titled "Plumbing Code", to read as follows:

"ARTICLE 3.06 PLUMBING

. . .

Division 2. Plumbing Code

Sec. 3.06.031 Adopted

The International Plumbing Code, 2009 edition, as published by the International Code Council, is hereby adopted by reference. Unless deleted, amended, expanded or otherwise changed herein, all provisions of such code shall be fully applicable and binding.

. . .

Section 3.06.034 Amendments

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

714 Engineered ~~Computerized~~ 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 ~~indicated in the following schedule: (JURISDICTION TO INSERT APPROPRIATE SCHEDULE)~~ adopted by resolution of the governing body of the jurisdiction.

106.6.3 Fee Refunds. The code official shall establish a policy for ~~authorize~~ authorizing the refunding of fees ~~as follows~~. *{Delete balance of section}*

Section 109; Delete entire section and insert the following:

SECTION 109
MEANS OF APPEAL

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 that connect to private sewage disposal systems shall be a minimum of [number] inches (mm) below finished grade at the point of septic tank connection.~~ 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. ... {text 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, ~~polybutylene,~~ polyethylene, ABS, CPVC, or schedule 80 PVC pipe or tubing when exposed to ultra violet light. All components shall be selected for the pressure, ~~and~~ 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:

401.1 Scope. This chapter shall govern the materials, design and installation of plumbing fixtures, faucets and fixture fittings in accordance with the type of *occupancy*, and shall provide for the minimum number of fixtures for various types of occupancies. 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; change to read as follows:

403.1 Minimum number of fixtures. Plumbing fixtures shall be provided for the type of *occupancy* and in the minimum number as follows:

5. 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.

6. Groups A, B, F, H, I, M and S Occupancies: Buildings or portions thereof where persons are employed shall be provided with at least one water closet for each sex except as provided for in Section 403.2.

7. Group E Occupancies: Shall be provided with fixtures as shown in Table 403.1.

8. Group R Occupancies: Shall be provided with fixtures as shown in Table 403.1.

It is recommended, but not required, that the minimum number of fixtures provided also comply with the number shown in Table 403.1. Types of occupancies not shown in Table 403.1 shall be considered individually by the code official. The number of occupants shall be determined by the *International Building Code.* Occupancy classification shall be determined in accordance with the *International Building Code.*

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. ~~Where water is served in restaurants or where bottled water coolers are provided in other occupancies, drinking fountains shall not be required. In other occupancies, where drinking fountains are required, bottled water dispensers shall be permitted to be substituted for not more than 50 percent of the required drinking fountains.~~

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 ~~Public laundries and central washing facilities~~. 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 (~~51~~ 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. ~~located in the same room as the water heater~~.

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 instructions.

5. Discharge ~~to the floor,~~ 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 ~~lmore~~ less than 6 inches or more than 24 inches (152 mm) above grade ~~the floor or~~ 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.

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 sillcock~~.

3. 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, ~~except~~ 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:

SECTION 714
ENGINEERED ~~COMPUTERIZED~~ DRAINAGE DESIGN

714.1 Design of drainage system. The sizing, design and layout of the drainage system shall be permitted to be designed by *approved* ~~computer~~ 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. ~~or the waste line shall rise and be securely fastened to the underside of the sink rim or counter.~~

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

802.4 Standpipes. Standpipes shall be... *{text unchanged}* ...drains for rodding. 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.

~~Exception: The developed length of the fixture drain from the trap weir to the vent fitting for self-siphoning fixtures, such as water closets, shall not be limited.~~

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, ~~sinks, lavatories, and drinking fountains~~ 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 1003; see note below:

{Until the Health and Water Departments of the area can coordinate a uniform grease interceptor section, each city will have to modify this section individually.}

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 ~~the 100-year hourly~~ rainfall rate ~~indicated in Figure 1106.1 or on other rainfall rates determined from *approved* local weather data~~.

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 ~~based on the rainfall rate for which the primary system is sized in Figure 1106.1 or on other rainfall rates determined from *approved* local weather data.~~ 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 5. That the Code of Ordinances of the City of Lucas, Texas be, and the same is, hereby amended by amending Chapter 3 titled "Building Regulations", by amending Article 3.07 titled "Electricity" by amending Division 3 titled "Electrical Code", to read as follows:

"ARTICLE 3.07 ELECTRICAL (formerly Electricity)

. . .

Division 3. Electrical Code

Sec. 3.07.081 Adopted

The National Electrical Code, 2011 edition, as published by the International Code Council, is hereby-adopted by reference. Unless deleted, amended, expanded or otherwise changed herein, all provisions of such code shall be fully applicable and binding.

Sec. 3.07.082 Amendments

Article 100, Part I; amend the following definition:

> Intersystem Bonding Termination. A device that provides a means for connecting bonding conductors for communication systems and other systems such as metallic gas piping systems to the grounding electrode system.

Article 110.2; change the following to read as follows:

> 110.2 Approval. The conductors and equipment required or permitted by this *Code* shall be acceptable only if approved. Approval of equipment may be evident by listing and labeling of equipment by a Nationally Recognized Testing Lab (NRTL) with a certification mark of that laboratory or a qualified third party inspection agency approved by the AHJ.
>
> Exception: Unlisted equipment that is relocated to another location within a jurisdiction or is field modified is subject to the approval by the AHJ. This approval may be by a field evaluation by a NRTL or qualified third party inspection agency approved by the AHJ.
>
> Manufacturer's self-certification of any equipment shall not be used as a basis for approval by the AHJ.
>
> > Informational Note: See 90.7, Examination of Equipment for Safety, and 110.3, Examination, Identification, Installation, and Use of Equipment. See definitions of *Approved*, *Identified*, *Labeled*, and *Listed*.

Article 110.5 change to read as follows:

> 110.5 Conductors. Conductors normally used to carry current shall be of copper unless otherwise provided in this code. Where the conductor material is not specified, the material and the sizes given in this code shall apply to copper conductors. Where other materials are used, the size shall be changed accordingly. Aluminum conductors which are sized number ten (10) American Wire Gauge (AWG) or smaller shall not be installed

within the City of Lucas. Aluminum conductors which are sized number eight (8) or larger may be installed in the City in accordance with their listing and the manufacture's recommendations as allowed by this code.

Article 230.71(A); add the following exception:

Exception: Multi-occupant buildings. Individual service disconnecting means is limited to six for each occupant. The number of individual disconnects at one location may exceed six.

Article 240.91; delete the Article.

Article 300.11; add the following exception:

Exception: Ceiling grid support wires may be used for structural supports when the associated wiring is located in that area, not more than two raceways or cables supported per wire, with a maximum nominal metric designation 16 (trade size 1/2").

Article 310.15(B)(7); change to read as follows:

(7) 120/240-Volt, 3-Wire, Single-Phase Dwelling Services and Feeders. For dwelling units, conductors, as listed in Table 310.15(B)(7), shall be...*{text unchanged}*...provided the requirements of 215.2, 220.61, and 230.42 are met. This Article shall not be used in conjunction with 220.82.

Article 500.8(A)(3); change to read as follows:

500.8 Equipment. Articles 500 through 504 require equipment construction and installation standards that ensure safe performance under conditions of proper use and maintenance.

Informational Note No. 1: It is important that inspection authorities and users exercise more than ordinary care with regard to installation and maintenance.

Informational Note No. 2: Since there is no consistent relationship between explosion properties and ignition temperature, the two are independent requirements.

Informational Note No. 3: Low ambient conditions require special consideration. Explosion proof or dust-ignition proof equipment may not be suitable for use at temperatures lower than -25°C (-13°F) unless they are identified for low-temperature service. However, at low ambient temperatures, flammable concentrations of vapors may not exist in a location classified as Class I, Division 1 at normal ambient temperature.

(A) Suitability. Suitability of identified equipment shall be determined by one of the following:

(1) Equipment listing or labeling

(2) Evidence of equipment evaluation from a qualified testing laboratory or inspection agency concerned with product evaluation

(3) Evidence acceptable to the authority having jurisdiction such as a manufacturer's self-evaluation or an ~~owner's~~ engineering judgment signed and sealed by a qualified Licensed Professional Engineer.

Informational Note: Additional documentation for equipment may include certificates demonstrating compliance with applicable equipment standards, indicating special conditions of use, and other pertinent information. Guidelines for certificates may be found in ANSI/ISA 12.00.02, *Certificate Standard for AEx Equipment for Hazardous (Classified) Locations*.

Article 505.7(A) changed to read as follows:

505.7 Special Precaution. Article 505 requires equipment construction and installation that ensures safe performance under conditions of proper use and maintenance.

Informational Note No. 1: It is important that inspection authorities and users exercise more than ordinary care with regard to the installation and maintenance of electrical equipment in hazardous (classified) locations.

Informational Note No. 2: Low ambient conditions require special consideration. Electrical equipment depending on the protection techniques described by 505.8(A) may not be suitable for use at temperatures lower than -20°C (-4°F) unless they are identified for use at lower temperatures. However, at low ambient temperatures, flammable concentrations of vapors may not exist in a location classified Class I, Zones 0, 1, or 2 at normal ambient temperature.

(A) Implementation of Zone Classification System. Classification of areas, engineering and design, selection of equipment and wiring methods, installation, and inspection shall be performed by a qualified ~~persons~~ Licensed Professional Engineer.

Article 680.25(A) changed to read as follows:

680.25 Feeders. These provisions shall apply to any feeder on the supply side of panelboards supplying branch circuits for pool equipment covered in Part II of this article and on the load side of the service equipment or the source of a separately derived system.

(A) Wiring Methods.

(1) Feeders. Feeders shall be installed in rigid metal conduit or intermediate metal conduit. The following wiring methods shall be permitted if not subject to physical damage:
(1) Liquidtight flexible nonmetallic conduit

(2) Rigid polyvinyl chloride conduit
(3) Reinforced thermosetting resin conduit
(4) Electrical metallic tubing where installed on or within a building
(5) Electrical nonmetallic tubing where installed within a building
(6) Type MC cable where installed within a building and if not subject to corrosive environment
(7) Nonmetallic-sheathed cable
(8) Type SE cable

Exception: An existing feeder between an existing remote panelboard and service equipment shall be permitted to run in flexible metal conduit or an approved cable assembly that includes an equipment grounding conductor within its outer sheath. The equipment grounding conductor shall comply with 250.24(A)(5).

. . . "

Section 6. That the Code of Ordinances of the City of Lucas, Texas be, and the same is, hereby amended by amending Chapter 3 titled "Building Regulations", by amending Article 3.08 titled "Residential Code", to read as follows:

"ARTICLE 3.08 RESIDENTIAL CODE

Sec. 3.08.001 Adopted

The National Residential Code, 2009 edition, as published by the International Code Council ("IRC"), is hereby-adopted by reference. Unless deleted, amended, expanded or otherwise changed herein, all provisions of such code shall be fully applicable and binding. Save and except Sections R324.1 through R324.2 of the 2003 IRC which remain unchanged to require residential fire sprinklers.

Sec. 3.08.002 Amendments

Section R101.1; Insert jurisdiction name as follows:

R101.1 Title. These regulations shall be known as the *Residential Code for One- and Two-family Dwellings of Lucas, Texas*, hereinafter referred to as "this *code*."

Section R102.4; change to read as follows:

R102.4 Referenced codes and standards. The *codes*, when specifically adopted, and standards referenced in this *code* shall be considered part of the requirements of this *code* to the prescribed extent of each such reference. 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 made to NFPA 70 or the *Electrical Code* shall mean the *Electrical Code* as adopted.

Where differences occur between provisions of this *code* and referenced *codes* and standards, the provisions of this *code* shall apply.

Exception: Where enforcement ... *{remainder of text unchanged}*...

Section 108.7; add Section 108.7 to read as follows:

108.7 Re-inspection Fee. A fee as established by city council resolution may be charged when:

1. The inspection called for is not ready when the inspector arrives;
2. No building address or permit card is clearly posted;
3. Approved plans are not on the job site available to the inspector;
4. The building is locked or work otherwise not available for inspection when called;
5. The job site is red-tagged twice for the same item;
6. The original red tag has been removed from the job site and/or,
7. Violations exist on the property including failure to maintain erosion control, trash control or tree protection.
8. Any re-inspection fees assessed shall be paid before any more inspections are made on that job site.

Section R109.1.3; change to read as follows:

R109.1.3 Floodplain inspections. For construction permitted in areas prone to flooding as established by Table R301.2(1), upon . . . *{text unchanged}* . . . construction, the building official may ~~shall~~ require submission . . . *{text unchanged}*.

Section R110 (R110.1 through R110.5); delete the section.

Section R112.2.1 & R112.2.2; delete the sections.

Section R202; change definition of "Townhouse" to read as follows:

TOWNHOUSE. A single-family dwelling unit constructed in a group of three or more attached units separated by property lines in which each unit extends from foundation to roof and with a *yard* or *public way* on at least two sides.

Table R301.2(1); fill in as follows:

GROUND SNOW LOAD	WIND DESIGN		SEISMIC DESIGN CATEGORY[f]
	SPEED[d] (mph)	Topographic Effects[k]	
5 lb/ft^2	90 (3-sec-gust)/76 fastest mile	No	A

SUBJECT TO DAMAGE FROM		
Weathering[a]	Frost line depth[b]	Termite[c]
moderate	6"	very heavy

WINTER DESIGN TEMP[e]	ICE BARRIER UNDER-LAYMENT REQUIRED[h]	FLOOD HAZARDS[g]	AIR FREEZING INDEX[i]	MEAN ANNUAL TEMP[j]
22°F	No	local *code*	69°F	64.9°F

{No change to footnotes}

Section R302.1; add exception #6 to read as follows:

Exceptions: *{previous exceptions unchanged}*

6. Open metal carport structures may be constructed when also approved within adopted ordinances.

Section R302.2, Exception; change to read as follows:

Exception: A common two-hour fire-resistance-rated wall assembly, or one-hour fire-resistance-rated wall assembly when equipped with a sprinkler system... *{remainder unchanged}*

Section R302.2.4, Exception 5; change to read as follows:

Exception: *{previous exceptions unchanged}*

5. Townhouses separated by a common two-hour fire-resistance-rated wall, or one-hour fire resistant rated wall when equipped with an automatic sprinkler system, *{remainder unchanged}*

Section R302.3; add Exception #3 to read as follows:

Exceptions:

1. *{existing text unchanged}*

2. *{existing text unchanged}*

3. Two-family dwelling units that are also divided by a property line through the structure shall be separated as required for townhouses.

Section R302.5.2; change to read as follows:

R302.5.2 Duct penetration. Ducts in the garage… *{text unchanged}* …and shall have no openings into the garage and shall be protected as required by Section 302.11, Item 4.

Section R302.5.3; amend the section as follows:

R309.5.3 Other penetrations. Penetrations through the separation required in Section ~~R309.2~~ R302.6 shall be protected as required by Section R302.11, Item 4.

Section R302.7; change to read as follows:

R302.7 Under stair protection. Enclosed accessible space under stairs shall have walls, under stair surface and any soffits protected on the enclosed side with 5/8-inch (15.8 mm) fire-rated ~~1/2-inch (12.7 mm)~~ gypsum board or one-hour fire-resistive construction.

Section R303.3, Exception; change to read as follows:

Exception: The glazed areas shall not be required where artificial light and a mechanical ventilation system, complying with one of the following, are provided.

1. The minimum ventilation rates shall be 50 cfm (24 L/s) for intermittent ventilation or 20 cfm (10 L/s) for continuous ventilation. Ventilation air from the space shall be exhausted directly to the outside.

2. Bathrooms that contain only a water closet, a lavatory, or water closet and a lavatory may be ventilated with an approved mechanical recirculating fan or similar device designed to remove odors from the air.

Section R324.1 through R324.2, 2003 International Residential Code remains unchanged, to read as follows:

R324.1 Residential fire sprinklers. Residential fire sprinklers shall be installed in all new construction. Installation shall be in compliance with NFPA 13D with the following requirements:

(1) Plans shall be submitted to the AHJ for permitting and plan review.

(2) Sprinkler system shall be subject to a two hour hydrostatic test at 200 psi.

(3) The small room rule will not be recognized. All occupiable spaces within the living area or garage are required to be sprinklered.

(4) Attached garages shall be sprinklered.

(5) The system shall be attached to an alarm horn or alarm system. If attached to an alarm system, the alarm tone for water flow shall be different than for other alarms the system may be programmed for.

(6) Multipurpose fires suppression systems are permitted in accordance with state law

Exceptions:

1. Detached U occupancies (accessory type structures) in residential zones.

2. Detached S occupancies (accessory type structures) in residential zones.

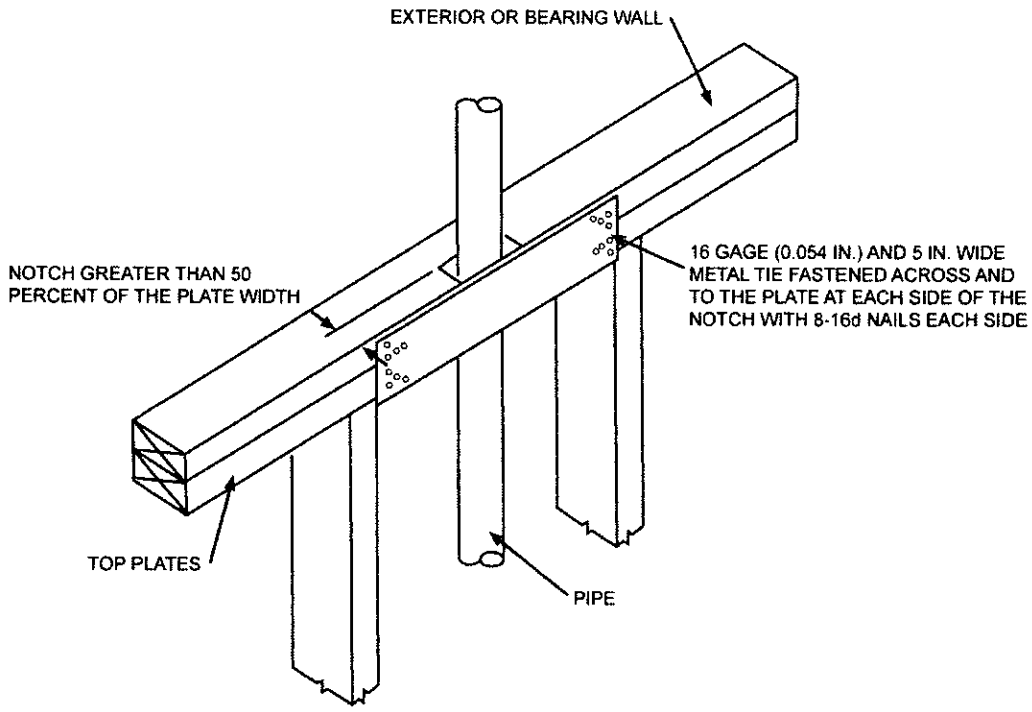
3. R3 occupancies served by water mains less than 4" inside diameter more than 200' from the point of reduction.

R324.2 Additions, alterations or repairs. One- and two-family dwellings shall not be required to retrofit sprinkler systems when undergoing additions, alterations or repairs.

Section 602.6.1; amend the following:

R602.6.1 Drilling and notching of top plate. When piping or ductwork is placed in or partly in an exterior wall or interior load-bearing wall, necessitating cutting, drilling or notching of the top plate by more than 50 percent of its width, a galvanized metal tie not less than 0.054 inch thick (1.37 mm) (16 Ga) and ~~1 ½ inches (38) mm~~ 5 inches (127 mm) wide shall be fastened across and to the plate at each side of the opening with not less than eight 10d (0.148 inch diameter) having a minimum length of 1 ½ inches (38 mm) at each side or equivalent. Fasteners will be offset to prevent splitting of the top plate material. The metal tie must extend a minimum of 6 inches past the opening. See figure R602.6.1.

Figure R602.6.1; delete the figure and insert the following figure:



For SI: 1 inch = 25.4 mm

FIGURE R602.6.1
TOP PLATE FRAMING TO ACCOMMODATE PIPING

Section R703.7.4.1; add a second paragraph to read as follows:

In stud framed exterior walls, all ties shall be anchored to studs as follows:

1. When studs are 16 in (407 mm) o.c., stud ties shall be spaced no further apart than 24 in (737 mm) vertically starting approximately 12 in (381 mm) from the foundation; or

2. When studs are 24 in (610 mm) o.c., stud ties shall be spaced no further apart than 16 in (483 mm) vertically starting approximately 8 in (254 mm) from the foundation.

Section R902.1; Amend and add exception #3 to read as follows:

R902.1 Roofing covering materials. Roofs shall be covered with materials as set forth in Sections R904 and R905. Class A, B, or C roofing shall be installed ~~in areas designated by~~

~~law as requiring their use or when the edge of the roof is less than 3 feet from a property line~~. *{remainder unchanged}*

Exceptions:

1. *{text unchanged}*

2. *{text unchanged}*

3. Non-classified roof coverings shall be permitted on one-story detached *accessory structures* used as tool and storage sheds, playhouses and similar uses, provided the floor area does not exceed (area defined by jurisdiction).

Section R907.1; add a sentence to read as follows:

R907.1 General. Materials and methods of application used for re-covering or replacing an existing roof covering shall comply with the requirements of Chapter 9. All individual replacement shingles or shakes shall comply with Section R902.1, *{Exception unchanged}*

Section N1101.2; add Section N1101.2.2 to read as follows:

N1101.2.2 Compliance software tools. Software tools used to demonstrate energy code compliance utilizing the UA alternative approach shall be approved by the building official. The PNL program **RES*check*™** is not acceptable for residential compliance.

Exception: When **RES*check*™** "UA Trade-off" compliance approach or the UA Alternate compliance approach method is used, the compliance certificate must demonstrate that the maximum glazed area does not exceed 15% of the conditioned floor area.

Section N1102.1; change to read as follows:

N1102.1 Insulation and fenestration criteria. The building thermal envelope shall meet the requirements of Table N1102.1 based on the climate zone specified in Table N1101.2. The use of Tables N1102.1 and N1102.1.2 are limited to a maximum glazing area of 15% window area to floor area ratio.

Section N1102.2.12; add Section N1102.2.12 to read as follows:

N1102.2.12. Insulation installed in walls. Insulation batts installed in walls shall be totally surrounded by an enclosure on all sides consisting of framing lumber, gypsum, sheathing, wood structural panel sheathing or other equivalent material approved by the *building official.*

Section M1305.1.3; change to read as follows:

M1305.1.3 Appliances in attics. *Attics* containing *appliances* requiring access shall be provided . . . *{bulk of paragraph unchanged}* . . . sides of the *appliance* where access is required. The clear access opening dimensions shall be a minimum of 20 inches by 30 inches (508 mm by 762 mm), or larger and large enough to allow removal of the largest *appliance*. As a minimum, access to the *attic* space, provide one of the following:

5. A permanent stair.

6. A pull down stair with a minimum 300 lb (136 kg) capacity.

7. An access door from an upper floor level.

8. Access Panel may be used in lieu items 1, 2, and 3 with prior approval of the *building official* due to building conditions in existing structures.

Exceptions:

1. The passageway and level service space are not required where the *appliance* can be serviced and removed through the required opening.

2. Where the passageway is unobstructed... *{remaining text unchanged}*

Section M1305.1.3.1; add text to read as follows:

M1305.1.3.1 Electrical requirements. A luminaire controlled by a switch located at the required passage-way opening and a receptacle outlet shall be installed at or near the *appliance* location in accordance with Chapter 39. Low voltage wiring of 50 Volts or less shall be installed in a manner to prevent physical damage.

Section M1305.1.4.1; change to read as follows:

M1305.1.4.1 Ground clearance. *Equipment* and *appliances* supported from the ground shall be level and firmly supported on a concrete slab or other *approved* material extending above the adjoining ground a minimum of 3 inches (76 mm). Appliances suspended from the floor shall have a clearance of not less than 6 inches (152 mm) above the ground.

Section M1305.1.4.3; add text to read as follows:

M1305.1.4.3 Electrical requirements. A luminaire controlled by a switch located at the required passage-way opening and a receptacle outlet shall be installed at or near the *appliance* location in accordance with Chapter 39. Low voltage wiring of 50 Volts or less shall be installed in a manner to prevent physical damage.

Section M1307.3.1; delete.

Section M1411.3; change to read as follows:

M1411.3 Condensate disposal. Condensate from all cooling coils or evaporators shall be conveyed from the drain pan outlet to ~~an *approved* place of disposal~~ a sanitary sewer through a trap, by means of a direct or indirect drain. *{remaining text unchanged}*

Section M1411.3.1, Items 3 and 4; add text to read as follows:

M1411.3.1 Auxiliary and secondary drain systems. *{bulk of paragraph unchanged}*

1. *{text unchanged}*

2. *{text unchanged}*

3. An auxiliary drain pan... *{bulk of text unchanged}*... with Item 1 of this section. A water level detection device may be installed only with prior approval of the *building official.*

4. A water level detection device... *{bulk of text unchanged}*... overflow rim of such pan. A water level detection device may be installed only with prior approval of the *building official.*

Section M1411.3.1.1; add text to read as follows:

M1411.3.1.1 Water-level monitoring devices. On down-flow units ...*{bulk of text unchanged}*... installed in the drain line. A water level detection device may be installed only with prior approval of the *building official.*

Section M1501; add new Section M1501.2 to read as follows:

M1501.2 Material and size. Exhaust ducts shall have a smooth interior finish and shall be constructed of metal a minimum 0.016-inch (0.4mm) thick. The exhaust duct size shall be 4 inches (102 mm) nominal in diameter. Duct size shall not be reduced along its developed length or at termination.

Section M1501; add new Section M1501.3 to read as follows:

M1501.3 Specified length. The maximum length of the exhaust duct shall be 35 feet (10668 mm) from the connection to the transition duct from the *appliance* to the outlet terminal. Where fittings are used, the maximum length of the exhaust duct shall be reduced in accordance with Table M1502.4.4.1.

Section M2005.2; change to read as follows:

M2005.2 Prohibited locations. Fuel-fired water heaters shall not be installed in a room used as a storage closet. Water heaters located in a bedroom or bathroom shall be installed in a

sealed enclosure so that *combustion air* will not be taken from the living space. Access to such enclosure may be from the bedroom or bathroom when through a solid door, weather-stripped in accordance with the exterior door air leakage requirements of the *International Energy Conservation Code* and equipped with an *approved* self-closing device. Installation of direct-vent water heaters within an enclosure is not required.

Section G2408.3 (305.5); delete.

Section G2412.5 (401.5); add a second paragraph to read as follows:

Both ends of each section of medium pressure gas piping shall identify its operating gas pressure with an *approved* tag. The tags are to be composed of aluminum or stainless steel and the following wording shall be stamped into the tag:

"WARNING
1/2 to 5 psi gas pressure
Do Not Remove"

Section G2413.3 (402.4.3); add an exception to read as follows:

Exception: Corrugated stainless steel tubing (CSST) shall be a minimum of 1/2" (18 EDH).

Section G2415.9.1 (404.9.1); delete.

Section G2415.10 (404.10); change to read as follows:

G2415.10 (404.10) Minimum burial depth. Underground *piping systems* shall be installed a minimum depth of ~~12 inches (305 mm)~~ 18 inches (457 mm) below grade, except as provided for in Section G2415.10.1.

Section G2417.1 (406.1); change to read as follows:

G2417.1 (406.1) General. Prior to acceptance and initial operation, all *piping* installations shall be inspected and *pressure tested* to determine that the materials, design, fabrication, and installation practices comply with the requirements of this *code*. The *permit* holder shall make the applicable tests prescribed in Sections 2417.1.1 through 2417.1.5 to determine compliance with the provisions of this *code*. The *permit* holder shall give reasonable advance notice to the *building official* when the *piping system* is ready for testing. The *equipment*, material, power and labor necessary for the inspections and test shall be furnished by the *permit* holder and the *permit* holder shall be responsible for determining that the work will withstand the test pressure prescribed in the following tests.

Section G2417.4; change to read as follows:

G2417.4 (406.4) Test pressure measurement. Test pressure shall be measured with a

manometer or with a pressure-measuring device designed and calibrated to read, record, or indicate a pressure loss caused by leakage during the *pressure test* period. The source of pressure shall be isolated before the *pressure tests* are made. ~~Mechanical gauges~~ Gauges used to measure… *{remainder unchanged}*

Section G2417.4.1; change to read as follows:

G2417.4.1 (406.4.1) Test pressure. The test pressure to be used shall be not less than ~~one and one-half times the proposed maximum working pressure, but not less than~~ 3 psig (20 kPa gauge), or at the discretion of the *Building Official*, the *piping* and *valves* may be tested at a pressure of at least six (6) inches (152 mm) of mercury, measured with a manometer or slope gauge. ~~irrespective of design pressure. Where the test pressure exceeds 125 psig (862 kPa gauge), the test pressure shall not exceed a value that produces a hoop stress in the *piping* greater than 50 percent of the specified minimum yield strength of the *pipe*.~~ For tests requiring a pressure of 3 psig, ~~mechanical~~ gauges ~~used to measure test pressures~~ shall utilize a dial with a minimum diaphragm diameter of three and one half inches (3 ½"), a set hand, 1/10 pound incrementation and pressure range not to exceed 6 psi for tests requiring a pressure of 3 psig. For tests requiring a pressure of 10 psig, ~~mechanical~~ diaphragm gauges shall utilize a dial with a minimum diameter of three and one-half inches (3 ½"), a set hand, a minimum of 2/10 pound incrementation and a pressure range not to exceed 20 psi. ~~have a range such that the highest end of the scale is not greater than five times the test pressure.~~

For welded *piping*, and for *piping* carrying gas at pressures in excess of fourteen (14) inches water column pressure (3.48 kPa) (1/2 psi) and less than 200 inches of water column pressure (52.2 kPa) (7.5 psi), the test pressure shall not be less than ten (10) pounds per square inch (69.6 kPa). For *piping* carrying gas at a pressure that exceeds 200 inches of water column (52.2 kPa) (7.5 psi), the test pressure shall be not less than one and one-half times the proposed maximum working pressure.

Section G2417.4.2; change to read as follows:

G2417.4.2 (406.4.2) Test duration. The test duration shall be held for a length of time satisfactory to the *Building Official*, but in no case for ~~be not~~ less than ~~10~~ fifteen (15) minutes. For welded *piping*, and for *piping* carrying gas at pressures in excess of fourteen (14) inches water column pressure (3.48 kPa), the test duration shall be held for a length of time satisfactory to the *Building Official*, but in no case for less than thirty (30) minutes.

Section G2420.1 (406.1); add Section G2420.1.4 to read as follows:

G2420.1.4 Valves in CSST installations. Shutoff *valves* installed with corrugated stainless steel (CSST) *piping systems* shall be supported with an approved termination fitting, or equivalent support, suitable for the size of the *valves*, of adequate strength and quality, and located at intervals so as to prevent or damp out excessive vibration but in no case greater than 12-inches from the center of the *valve*. Supports shall be installed so as not to interfere with the free expansion and contraction of the system's *piping*, fittings, and *valves* between

anchors. All *valves* and supports shall be designed and installed so they will not be disengaged by movement of the supporting *piping*.

Section G2420.5.1 (409.5.1); add text to read as follows:

G2420.5.1 (409.5.1) Located within the same room. The shutoff valve ...*{bulk of paragraph unchanged}*... in accordance with the appliance manufacturer's instructions. A secondary shutoff valve must be installed within 3 feet (914 mm) of the firebox if appliance shutoff is located in the firebox.

Section G2421.1 (410.1); add text and Exception to read as follows:

G2421.1 (410.1) Pressure regulators. A line *pressure regulator* shall be ... *{bulk of paragraph unchanged}*... *approved* for outdoor installation. Access to *regulators* shall comply with the requirements for access to *appliances* as specified in Section M1305.

Exception: A passageway or level service space is not required when the *regulator* is capable of being serviced and removed through the required *attic* opening.

Section G2422.1.2.3 (411.1.3.3); delete Exception 1 and Exception 4.

G2422.1.2.3 (410.1) Pressure regulators. A line *pressure regulator* shall be ... *{bulk of paragraph unchanged}*... *approved* for outdoor installation. Access to *regulators* shall comply with the requirements for access to *appliances* as specified in Section M1305.

Exception: A passageway or level service space is not required when the *regulator* is capable of being serviced and removed through the required *attic* opening.

Section G2439.5 (614.6); change text to read as follows:

G2439.5 (614.6) Domestic clothes dryer exhaust ducts. Exhaust ducts for domestic *clothes dryers* shall conform to the requirements of Sections ~~G2429.5.1~~G2439.5.1 through ~~G2429.5.7~~G2439.5.7. The size of duct shall not be reduced along its developed length nor at the point of termination.

Section G2445.2 (621.2); add Exception to read as follows:

G2445.2 (621.2) Prohibited use. One or more *unvented room heaters* shall not be used as the sole source of comfort heating in a *dwelling unit*.

Exception: Existing *approved unvented room heaters* may continue to be used in *dwelling units*, in accordance with the *code* provisions in effect when installed, when *approved* by the *Building Official* unless an unsafe condition is determined to exist as described in *International Fuel Gas Code* Section 108.7 of the Fuel Gas Code.

Section G2448.1.1 (624.1.1); change to read as follows:

G2448.1.1 (624.1.1) Installation requirements. The requirements for *water heaters* relative to access, sizing, *relief valves*, drain pans and scald protection shall be in accordance with this *code*.

Section P2503.6; change to read as follows:

P2503.6 Shower liner test. Where shower floors and receptors are made water tight by the application of materials required by Section P2709.2, the completed liner installation shall be tested. The pipe from the shower drain shall be plugged water tight for the test. ~~The floor and receptor area shall be filled with potable water to a depth of not less than 2 inches (51 mm) measured at the threshold.~~ Water shall be held in the section under test for a period of 15 minutes. The system shall prove leak free by visual inspection.

Section P2709.2; add Exception to read as follows:

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

Section P2717.2; change text to read as follows:

P2717.2 Sink and dishwasher. A sink and dishwasher are permitted ... *{bulk of text unchanged}* ...wye fitting to the sink tailpiece. ~~The dishwasher waste line shall rise and be securely fastened to the underside of the counter before connecting to the sink tailpiece.~~ The waste line of a domestic dishwashing machine discharging into a kitchen sink tailpiece shall connect to a deck mounted *air break.*

Section P2717.3; change text to read as follows:

P2717.3 Sink, dishwasher and food grinder. The combined discharge ... *{bulk of text unchanged}* ... head of the food grinder. ~~The dishwasher waste line shall rise and be securely fastened to the underside of the counter before connecting to the sink tailpiece or the food 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 break.*

Section P2801.6; add Exception to read as follows:

Exceptions:

1. Elevation of the ignition source is not required for water heaters that are listed as flammable vapor resistant and for installation without elevation.

2. Electric Water Heater.

Section P2902.5.3; change to read as follows:

P2902.5.3 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 P3005.2.6; change to read as follows:

P3005.2.6 ~~Base of stacks~~ Upper Terminal. ~~A cleanout shall be provided at the base of each waste or soil stack.~~ Each horizontal drain shall be provided with a cleanout at its upper terminal.

Exception: Cleanouts may be omitted on a horizontal drain less than five (5) feet (1524 mm) in length unless such line is serving sinks or urinals.

Section P3111; delete.

Section P3112.2; delete and replace with the following:

P3112.2 Installation. Traps for island sinks and similar equipment shall be roughed in above the floor and may be vented by extending the vent as high as possible, but not less than the drainboard height and then returning it downward and connecting it to the horizontal sink drain immediately downstream from the vertical fixture drain. The return vent shall be connected to the horizontal drain through a wye-branch fitting and shall, in addition, be provided with a foot vent taken off the vertical fixture vent by means of a wye-branch immediately below the floor and extending to the nearest partition and then through the roof to the open air or may be connected to other vents at a point not less than six (6) inches (152 mm) above the flood level rim of the fixtures served. Drainage fittings shall be used on all parts of the vent below the floor level and a minimum slope of one-quarter (1/4) inch per foot (20.9 mm/m) back to the drain shall be maintained. The return bend used under the drainboard shall be a one (1) piece fitting or an assembly of a forty-five (45) degree (0.79 radius), a ninety (90) degree (1.6 radius) and a forty-five (45) degree (0.79 radius) elbow in the order named. Pipe sizing shall be as elsewhere required in this Code. The island sink drain, upstream of the return vent, shall serve no other fixtures. An accessible cleanout shall be installed in the vertical portion of the foot vent.

. . . "

Section 7. That the Code of Ordinances of the City of Lucas, Texas be, and the same is, hereby amended by amending Chapter 3 titled "Building Regulations", by amending Article 3.09 titled "Energy Conservation Code", to read as follows:

"ARTICLE 3.09 ENERGY CONSERVATION CODE

Sec. 3.09.001 Adopted

The International Energy Conservation Code, 2009 edition, as published by the International Code Council, is hereby adopted by reference. Unless deleted, amended, expanded or otherwise changed herein, all provisions of such code shall be applicable and binding.

Sec. 3.09.002 Amendments

Section 101.4.2; change to read as follows:

101.4.2 Historic Buildings. Any building or structure that is listed in the State or National Register of Historic Places; designated as a historic property under local or state designation law or survey; certified as a contributing resource with a National Register listed or locally designated historic district; or with an opinion or certification that the property is eligible to be listed on the National or State Registers of Historic Places either individually or as a contributing building to a historic district by the State Historic Preservation Officer of the Keeper of the National Register of Historic Places, ~~are exempt from~~ shall comply with all of the provisions of this code.

Exception: Whenever a provision or provisions shall invalidate or jeopardize the historical designation or listing, that provision or provisions may be exempted.

Section 103.1; add Section 103.1.1 to read as follows:

103.1.1 Alternative compliance. A building certified by a national, state, or local accredited energy efficiency program and determined by the Energy Systems Laboratory to be in compliance with the energy efficiency requirements of this section may, at the option of the Code Official, be considered in compliance. The United States Environmental Protection Agency's Energy Star Program certification of energy code equivalency shall be considered in compliance.

Section 202; add the following definition:

GLAZING AREA. Total area of the glazed fenestration measured using the rough opening and including sash, curbing or other framing elements that enclose conditioned spabce. Glazing area includes the area of glazed fenestration assemblies in walls bounding conditioned basements. For doors where the daylight opening area is less that 50 percent of the door area, the glazing area is the daylight opening area. For all other doors, the glazing area is the rough opening area for the door including the door and the frame.

Section 401.2, Item 1; change to read as follows:

1. Sections 402.1 through 402.3, 403.2.1 and 404.1 (prescriptive) and the use of Tables 402.1.1 and 402.1.3 are limited to a maximum *glazing area* of 15% window area to floor area ratio; or

2. *{language unchanged}*

Section 402.2; Add Section 402.2.12 to read as follows:

Section 402.2.12 Insulation installed in walls. Insulation batts installed in walls shall be totally surrounded by an enclosure on all sides consisting of framing lumber, gypsum, sheathing, wood structural panel sheathing or other equivalent material approved by the building official.

Section 405.4.1; add the following sentence to the end of paragraph:

RemRate™, Energy Gauge™, and IC3 are deemed acceptable performance simulation programs.

. . . "

Section 8. That the Code of Ordinances of the City of Lucas, Texas be, and the same is, hereby amended by amending Chapter 3 titled "Building Regulations", by amending Article 3.10 titled "Fuel Gas Code", to read as follows:

"ARTICLE 3.10 FUEL GAS CODE

Sec. 3.10.001 Adopted

The International Fuel Gas Code, 2009 edition as published by the International Code Council, is hereby adopted by reference. Unless deleted, amended, expanded or otherwise changed herein, all provisions of such code shall be applicable and binding.

Sec. 3.10.002 Amendments

Section 101.2. Local amendments to Section 101.2 may be necessary to correspond with the State Plumbing Licensing Law.

Section 102.2; add an exception to read as follows:

Exception: Existing dwelling units shall comply with Section 621.2.

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 8 and such codes, when specifically adopted, and standards

shall be considered part of the requirements of this code to the prescribed extent of each such reference. Where differences occur between provisions of this code and the referenced standards, the provisions of this code shall apply. 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.

Section 304.10; change to read as follows:

304.10 Louvers and grilles. The required size of openings for combustion, ventilation and dilution air shall be based on the net free area of each opening. Where the free area through a design of louver, grille or screen is known, it shall be used in calculating the size opening required to provide the free area specified. Where the design and free area of louvers and grilles are not known, it shall be assumed that wood louvers will have 25-percent free area and metal louvers and grilles will have ~~75~~ 50-percent free area. Screens shall have a mesh size not smaller than ¼ inch (6.4 mm). Nonmotorized louvers and grilles shall be fixed in the open position. Motorized louvers shall be interlocked with the appliance so that they are proven to be in the full open position prior to main burner ignition and during main burner operation. Means shall be provided to prevent the main burner from igniting if the louvers fail to open during burner start-up and to shut down the main burner if the louvers close during operation.

Section 304.11; change #8 to read as follows:

304.11 Combustion air ducts. Combustion air ducts shall comply with all of the following:

1. Ducts shall be constructed of galvanized steel complying with Chapter 6 of the International Mechanical Code or of a material having equivalent corrosion resistance, strength and rigidity.

   Exception: Within dwellings units, unobstructed stud and joist spaces shall not be prohibited from conveying combustion air, provided that not more than one required fireblock is removed.

2. Ducts shall terminate in an unobstructed space allowing free movement of combustion air to the appliances.

3. Ducts shall serve a single enclosure.

4. Ducts shall not serve both upper and lower combustion air openings where both such openings are used. The separation between ducts serving upper and lower combustion air openings shall be maintained to the source of combustion air.

5. Ducts shall not be screened where terminating in an attic space.

6. Horizontal upper combustion air ducts shall not slope downward toward the source of combustion air.

7. The remaining space surrounding a chimney liner, gas vent, special gas vent or plastic piping installed within a masonry, metal or factory-built chimney shall not be used to supply combustion air.

   Exception: Direct-vent gas-fired appliances designed for installation in a solid fuel-burning fireplace where installed in accordance with the manufacturer's instructions.

8. Combustion air intake openings located on the exterior of a building shall have the lowest side of such openings located not less than 12 inches (305 mm) vertically from the adjoining ground level or the manufacturer's recommendation, whichever is more restrictive.

Section 305.5; delete the section.

Section 306.3; change to read as follows:

[M] 306.3 Appliances in attics. Attics containing appliances requiring *access* shall be provided . . . *{bulk of paragraph unchanged}* . . . side of the *appliance*. The clear *access* opening dimensions shall be a minimum of 20 inches by 30 inches (508 mm by 762 mm), ~~and~~ or larger where such dimensions are not large enough to allow removal of the largest *appliance*. As a minimum, for *access* to the attic space, provide one of the following:

1. A permanent stair.

2. A pull down stair.

3. An *access* door from an upper floor level.

4. *Access* Panel may be used in lieu of items 1, 2, and 3 with prior approval of the code official due to building conditions.

Exceptions:

1. The passageway and level service space are not required where the *appliance* is capable of being serviced and removed through the required opening.

2. Where the passageway is not less than *...{bulk of section to read the same}.*

Section 306.5; change to read as follows:

[M] 306.5 Equipment and appliances on roofs or elevated structures. Where *equipment* requiring *access* and appliances are installed on roofs or elevated structures at ~~a~~ an aggregate

height exceeding 16 feet (4877 mm), such *access* shall be provided by a permanent *approved* means of *access*.~~, the extent of which shall be from~~ Permanent exterior ladders providing roof *access* need not extend closer than ~~8~~ 12 feet (2438 mm) to the finish grade or floor level below and shall extend to the *equipment* and appliances' level service space. Such *access* shall . . . *{bulk of section to read the same}*. . . on roofs having a slope greater than 4 units vertical in 12 units horizontal (33-percent slope). ... *{bulk of section to read the same}*.

Section 306.5.1; change to read as follows:

[M] 306.5.1 Sloped roofs. Where appliances, *equipment*, fans or other components that require service are installed ~~on a roof having a slope of 3 units vertical in 12 units horizontal (25-percent slope) or greater~~ on roofs having slopes greater than 4 units vertical in 12 units horizontal and having an edge more than 30 inches (762 mm) above grade at such edge, a catwalk at least 16 inches in width with substantial cleats spaced not more than 16 inches apart shall be provided from the roof *access* to a level platform at the appliance. The level platform shall be provided on each side of the appliance to which *access* is required for service, repair or maintenance. The platform shall be not less than 30 inches (762 mm) in any dimension and shall be provided with guards. The guards shall extend not less than 42 inches (1067 mm) above the platform, shall be constructed so as to prevent the passage of a 21-inch-diameter (533 mm) sphere and shall comply with the loading requirements for guards specified in the *International Building Code*.

Section 306; add Section 306.7 with exception and subsection 306.7.1 to read as follows:

306.7 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 when approved by the *code official*) 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.

306.7.1. 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 306.3.1.

Section 401.5; add a second paragraph to read as follows:

Both ends of each section of medium pressure corrugated stainless steel tubing (CSST) shall identify its operating gas pressure with an *approved* tag. The tags are to be composed of aluminum or stainless steel and the following wording shall be stamped into the tag:

"WARNING 1/2 to 5 psi gas pressure Do Not Remove"

Section 402.3; add an exception to read as follows:

Exception: Corrugated stainless steel tubing (CSST) shall be a minimum of 1/2" (18 EHD).

Section 404.10; change to read as follows:

404.10 Minimum burial depth. Underground piping systems shall be installed a minimum depth of ~~12~~ 18 inches (~~305~~ 458 mm) top of pipe below grade~~, except as provided for in Section 404.10.1~~.

Section 404.10.1; delete the section.

Section 406.1; change to read as follows:

406.1 General. Prior to acceptance and initial operation, all piping installations shall be inspected and pressure tested to determine that the materials, design, fabrication, and installation practices comply with the requirements of this code. The permit holder shall make the applicable tests prescribed in Sections 406.1.1 through 406.1.5 to determine compliance with the provisions of this code. The permit holder shall give reasonable advance notice to the code official when the piping system is ready for testing. The equipment, material, power and labor necessary for the inspections and test shall be furnished by the permit holder and the permit holder shall be responsible for determining that the work will withstand the test pressure prescribed in the following tests.

Section 406.4; change to read as follows:

406.4 Test pressure measurement. Test pressure shall be measured with a monometer or with a pressure-measuring device designed and calibrated to read, record, or indicate a pressure loss caused by leakage during the pressure test period. The source of pressure shall be isolated before the pressure tests are made. ~~Mechanical gauges used to measure test pressures shall have a range such that the highest end of the scale is not greater than five times the test pressure.~~

Section 406.4.1; change to read as follows:

406.4.1 Test pressure. The test pressure to be used shall be no less than ~~1 1/2 times the proposed maximum working pressure, but no less than 3~~ 3 psig (20 kPa gauge), or at the discretion of the Code Official, the piping and valves may be tested at a pressure of at least six (6) inches (152 mm) of mercury, measured with a manometer or slope gauge. ~~irrespective of design pressure. Where the test pressure exceeds 125 psig (862 kPa gauge), the test pressure shall not exceed a value that produces a hoop stress in the piping greater than 50 percent of the specified minimum yield strength of the pipe.~~ For tests requiring a pressure of 3 psig, diaphragm gauges shall utilize a dial with a minimum diameter of three and one half inches (3 ½"), a set hand, 1/10 pound incrementation and pressure range not to exceed 6 psi for tests requiring a pressure of 3 psig. For tests requiring a pressure of 10 psig,

diaphragm gauges shall utilize a dial with a minimum diameter of three and one-half inches (3 ½"), a set hand, a minimum of 2/10 pound incrementation and a pressure range not to exceed 20 psi. For welded piping, and for piping carrying gas at pressures in excess of fourteen (14) inches water column pressure (3.48 kPa) (1/2 psi) and less than 200 inches of water column pressure (52.2 kPa) (7.5 psi), the test pressure shall not be less than ten (10) pounds per square inch (69.6 kPa). For piping carrying gas at a pressure that exceeds 200 inches of water column (52.2 kPa) (7.5 psi), the test pressure shall be not less than one and one-half times the proposed maximum working pressure.

Section 406.4.2; change to read as follows:

406.4.2 Test duration. Test duration shall be held for a length of time satisfactory to the Code Official, but in no case for less than fifteen (15) minutes. For welded piping, and for piping carrying gas at pressures in excess of fourteen (14) inches water column pressure (3.48 kPa), the test duration shall be held for a length of time satisfactory to the Code Official, but in no case for less than thirty (30) minutes. *(Delete remainder of section.)*

Section 409.1; add Section 409.1.4 to read as follows:

409.1.4 Valves in CSST installations. Shutoff valves installed with corrugated stainless steel (CSST) piping systems shall be supported with an *approved* termination fitting, or equivalent support, suitable for the size of the valves, of adequate strength and quality, and located at intervals so as to prevent or damp out excessive vibration but in no case greater than 12-inches from the center of the valve. Supports shall be installed so as not to interfere with the free expansion and contraction of the system's piping, fittings, and valves between anchors. All valves and supports shall be designed and installed so they will not be disengaged by movement of the supporting piping.

Section 410.1; add a second paragraph and exception to read as follows:

Access to regulators shall comply with the requirements for *access* to appliances as specified in Section 306.

Exception: A passageway or level service space is not required when the regulator is capable of being serviced and removed through the required attic opening.

Section 614.6; add a sentence to read as follows:

[M] 614.6 Domestic clothes dryer exhaust ducts. Exhaust ducts for domestic clothes dryers shall conform to the requirements of Sections 614.6.1 through 614.6.7. The size of duct shall not be reduced along its developed length nor at the point of termination.

Section 621.2; add exception as follows:

621.2 Prohibited use. One or more unvented room heaters shall not be used as the sole source of comfort heating in a dwelling unit.

Exception: Existing *approved* unvented heaters may continue to be used in dwelling units, in accordance with the code provisions in effect when installed, when *approved* by the Code Official unless an unsafe condition is determined to exist as described in Section 108.7.

Section 624.1.1; change to read as follows:

624.1.1 Installation requirements. The requirements for water heaters relative to *access*, sizing, relief valves, drain pans and scald protection shall be in accordance with the *International Plumbing Code.*

. . . "

Section 9. All ordinances of the City of Lucas in conflict with the provisions of this Ordinance shall be, and same are hereby, repealed, provided, however, that all other provisions of said Ordinances are not in conflict herewith shall remain in full force and effect.

Section 10. Should any word, sentence, paragraph, subdivision, clause, phrase or section of this Ordinance or of the City of Lucas Code of Ordinances, as amended hereby, be adjudged or held to be voided or unconstitutional, the same shall not affect the validity of the remaining portions of said Ordinances or the City of Lucas Code of Ordinances, as amended hereby, which shall remain in full force and effect.

Section 11. An offense committed before the effective date of the Ordinance is governed by prior law and the provisions of the City of Lucas Code of Ordinances in effect when the offense was committed and the former law is continued in effect for this purpose.

Section 12. Any person, firm or corporation violating any of the provisions or terms of this Ordinance shall be subject to the same penalty as provided for in the City of Lucas Code of Ordinances, as amended, and upon conviction shall be punished by a fine not to exceed the sum of Two Thousand Dollars ($2,000) for each offense, and each and every day such violation shall continue shall be deemed to constitute a separate offense.

Section 13. This Ordinance shall take effect immediately from and after its passage and publication in accordance with the provisions of the Charter of the City of Lucas, and it is accordingly so ordained.

DULY PASSED AND APPROVED BY THE CITY COUNCIL OF THE CITY OF LUCAS, COLLIN COUNTY, TEXAS, ON THIS _____ DAY OF _____, 2014.

APPROVED:

Rebecca Mark, Mayor

APPROVED AS TO FORM:

Joseph J. Gorfida, Jr., City Attorney
(10-03-14/68309)

ATTEST:

Joni Clarke City manager (Acting city secretary)

☐ Annexation
☐ Disannexation
☒ Code of Ordinances
☐ Other

ORDINANCE # 2014-11-00799
[ADOPTING 2009 INTERNATIONAL FIRE CODE]

AN ORDINANCE OF THE CITY OF LUCAS, TEXAS, AMENDING THE CODE OF ORDINANCES BY AMENDING CHAPTER 5 TITLED "FIRE PREVENTION AND PROTECTION" BY AMENDING ARTICLE 5.03 TITLED "FIRE CODE" BY ADOPTING THE 2009 EDITION OF THE INTERNATIONAL FIRE CODE WITH AMENDMENTS AND APPENDICES A-I, AND THE LATEST EDITION OF THE NATIONAL FIRE PROTECTION ASSOCIATION STANDARD 1; SAVE AND EXCEPT SECTION 903.2 OF THE 2003 INTERNATIONAL FIRE CODE WHICH REMAINS UNCHANGED TO REQUIRE THE INSTALLATION OF AUTOMATIC SPRINKLER SYSTEMS THROUGHOUT ALL LEVELS OF NEW GROUP A, B, E, F, H, I, M, R, S AND COMMERCIAL U OCCUPANCIES; PROVIDING A REPEALING CLAUSE; PROVIDING A SEVERABILITY CLAUSE; PROVIDING A SAVINGS CLAUSE; PROVIDING FOR A PENALTY OF FINE NOT TO EXCEED TWO THOUSAND DOLLARS ($2,000.00); AND PROVIDING FOR AN EFFECTIVE DATE.

NOW, THEREFORE, BE IT ORDAINED THAT THE CITY COUNCIL OF THE CITY OF LUCAS:

Section 1. That the Code of Ordinances of the City of Lucas, Texas be, and the same is, hereby amended by amending Chapter 5 titled "Fire Protection and Prevention", by amending Article 5.03 titled "Fire Code" by adopting the 2009 Edition of the International Fire Code and Appendices A-I, and the latest edition of the National Fire Protection Association Standard I, to read as follows:

"CHAPTER 5

FIRE PREVENTION AND PROTECTION

. . .

ARTICLE 5.03 FIRE CODE

Sec. 5.03.001 Adopted

There is hereby adopted by the City of Lucas, Texas, for the purpose of prescribing regulations governing conditions hazardous to life and property from fire and explosion, the certain Codes and Standards known as the International Fire Code, 2009 Edition, including Appendices A-I, and the latest edition of the National Fire Protection Association Standard 1. Unless deleted,

amended, expanded or otherwise changed herein, all provisions of the Code shall be fully applicable and binding. Save and except Section 903.2 of the 2003 International Fire Code which remains unchanged to require the installation of automatic sprinkler systems throughout all levels of new Group A, B, E, F, H, I M, R, S and Commercial U occupancies. A copy of said Fire Code and Standards is now filed in the office of the city secretary, and is hereby adopted and incorporated as fully as if set out at length herein, and from the date on which this ordinance shall take effect, the provisions thereof shall be controlling within the limits of the City of Lucas and within 5,000 feet thereof, where specified therein.

Sec. 5.03.002 Amendments

The provisions of the International Fire Code, 2009 Edition, as adopted herein, are hereby amended as follows:

Section 101.1, amend "Title" to read as follows:

> 101.1 Title. These regulations shall be known as the Fire Code of the City of Lucas, herein after referred to as "this code".

Section 102.4, amend to read as follows:

102.4 Application of Other Codes. The design and construction of new structures shall comply with this code, and other codes as applicable; and any alterations, additions, changes in use or changes in structures required by this code which are within the scope of this and other codes shall be made in accordance therewith.

Section 102.7, amend to read as follows:

> 102.7 Referenced Codes and Standards. The codes and standards referenced in this code shall be those that are listed in Chapter 47 and such codes, when specifically adopted, and standards shall be considered part of the requirements of this code to the prescribed extent of each such reference. Where differences occur between the provisions of this code and the referenced standards, the provisions of this code shall apply. Whenever amendments have been adopted to the referenced codes and standards, each reference to said code and standards 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.

Section 103.1, amend by adding a second paragraph and by adding subsection 103.1.1, "Division of Fire Prevention Personnel and Police", to read as follows:

> 103.1 General. The department of fire prevention is established within the jurisdiction under the direction of the fire code official. The function of the department shall be the implementation, administration and enforcement of the provisions of this code.

Under the chief's direction, the fire department is authorized to enforce all ordinances of the jurisdiction pertaining to:

1. The prevention of fires.
2. The suppression or extinguishment of dangerous or hazardous fires.
3. The storage, use and handling of hazardous materials.
4. The installation and maintenance of automatic, manual and other private fire alarm systems and fire-extinguishing equipment.
5. The maintenance and regulation of fire escapes.
6. The maintenance of fire protection and the elimination of fire hazards on land in buildings, structures and other property, including those under construction.
7. The maintenance of means of egress.
8. The investigation of the cause, origin and circumstances of fire and unauthorized releases of hazardous materials.
9. The investigation of the cause, origin and circumstances of explosions. For authority related to control and investigation of emergency scenes, see Section 104 of this code.

103.1.1 Division of Fire Prevention Personnel and Police. The fire marshal and members of the Division of Fire Prevention shall have the powers of a police officer when performing their duties under this code. When requested to do so, the chief of police is authorized to render necessary assistance to assist the Fire Department in enforcing the provisions of this code.

Section 103.4, amend by adding subsection 103.4.2, to read as follows:

103.4.2 City Liability. All regulations provided in this code are hereby declared to be governmental and for the benefit of the general public. Any member of the City Council, any city official or employee, or any member of the Building Standards Commission charged with the enforcement of this code, acting for the City in the discharge of his duties, shall not thereby render themselves personally liable, and they are hereby relieved from all personal liability for any damage that may occur to persons or property as a result of any action required or permitted in the discharge of their duties. Any suit brought against such official or employee because of such act performed by them in the enforcement of any provisions of this code shall be represented by the City of Lucas through its designated attorney until the final adjudication of the proceedings.

Section 105.7, amend by adding subsection 105.7.15 and 105.7.16, to read as follows:

105.7.15 Smoke Control or Exhaust Systems. Construction permits are required for smoke control or exhaust systems as specified in Section 909 and Section 910 respectively. Maintenance performed in accordance with this code is not considered a modification and does not require a permit.

105.7.16 Electronic Access Control Systems. Construction permits are required for the installation or modification of an electronic access control system, as specified in Section 503 and Section 1008. A separate construction permit is required for the installation or modification of a fire alarm system that may be connected to the access control system. Maintenance performed in accordance with this code is not considered a modification and does not require a permit.

Section 109.3, amend to read as follows:

Section 109.3 Violation Penalties. Persons who shall violate a provision of this code or shall fail to comply with any of the requirements thereof or who shall erect, install, alter, repair or to do work in violation of the approved construction documents or directive of the fire marshal, or a permit or certificate used under provisions of this code, shall be guilty of a misdemeanor offense punishable by a fine of not more than two thousand dollars ($2,000.00). Each day that a violation continues after due notice has been served shall be deemed a separate offense.

Section 110.4, amend to read as follows:

110.4 Abatement. Any person operating or maintaining any occupancy, premises or vehicle subject to this code who shall permit any fire hazard to exist on the premises under their control or who shall fail to take immediate action to abate a fire hazard when ordered or notified to do so by the code official or his duly authorized representative shall be guilty of a separate offense for each and every day or portion thereof which any violation of any of the provisions of this code is committed or continued.

Sections 202, General Definitions, amend by adding definitions to read as follows:

CODE OFFICIAL. The fire chief, fire marshal or other designated authority charged by the applicable governing body with the duties of administration and enforcement of the code, or a duly authorized representative.

DIVISION OF FIRE PREVENTION. The office of the Lucas Development Services.

FIRE DEPARTMENT. The City of Lucas Fire Department.

HIGH RISE BUILDING. A building having floors for human occupancy located more than 55 feet above the lowest level of fire department vehicle access.

JURISDICTION. The City of Lucas, Texas.

KEY BOX. A KNOX® Box device.

SELF-SERVICE STORAGE FACILITY. Real property designed and used for the purpose of renting or leasing individual storage spaces to customers for the purpose of storing and removing personal property on a self-service basis.

STANDBY PERSONNEL. Qualified fire service personnel, approved by the fire chief or fire marshal. When utilized, the number required shall be as directed by the fire chief or fire marshal.

Section 307.2, amend to read as follows:

307.2 Permit Required. A permit shall be obtained from the department of Fire Prevention in accordance with Section 105.6 prior to kindling a fire for recognized silvicultural or range or wildlife management practices, prevention or control of disease or pests, or a recreational fire. Application for such approval shall only be presented by and permits issued to the owner of the land upon which the fire is to be kindled. Examples of state or local law, or regulations referenced elsewhere in this section may include but not be limited to the following:

1. Texas Commission on Environmental Quality guidelines and/or restrictions.
2. State, County or Local temporary or permanent bans on open burning.
3. Local written policies as established by the fire marshal.

Section 307.4, amend subsection 307.4.1 and amend 307.4.2, and add subsection 307.4.4, to read as follows:

307.4 Location. Recreational fires as they relate to approved ceremonial situations or within approved devices such as outdoor barbeque grills with lids, chimenias or outdoor fireplaces shall be permitted in accordance with 307.4.2 Recreational Fires. Bonfires, trench burns, garbage/waste disposal fires and related outdoor burning shall be prohibited in the City of Lucas.

307.4.1 Bonfires. Bonfires shall be prohibited in the City of Lucas.

307.4.2 Recreational Fires. Recreational fires shall not be conducted within 25 feet of a structure or combustible material. Conditions which could cause a fire to spread within 25 feet of a structure shall be eliminated prior to ignition.
Exception: One- and two-family dwellings

307.4.4 Trench Burns. Trench burns shall be prohibited in the City of Lucas.

Section 401.3, amend by adding 401.3.4, to read as follows:

401.3.4 False Alarms and Nuisance Alarms. False alarms and nuisance alarms shall not be given, signaled or transmitted or caused or permitted to be given, signaled or transmitted in any manner. The technician performing maintenance on any system

capable of transmitting an alarm to the Lucas Emergency Dispatch Center shall notify the center, as well as the monitoring company for the property, prior to any work being performed on the system. In addition, the technician shall notify the Lucas Emergency Dispatch Center, as well as the monitoring company for the property, immediately upon placing the system back in service.

Section 503.1, amend by amending subsection 503.1.1 and the exceptions thereto, by amending subsection 503.1.2 and adding subsection 503.1.4, to read as follows:

503.1.1 Buildings and Facilities. Approved fire apparatus access roads shall be provided for every facility, building or portion of a building hereafter constructed or moved into or within the jurisdiction. The fire apparatus access road shall comply with the requirements of this section and shall extend to within 150 feet of all portions of the facility and all portions of the exterior walls of the first story of the building as measured by maximum hose distance or an approved route around the exterior of the building.

Exception: Except for one- or two-family residences, the path of measurement shall be along a minimum of a ten feet (10') wide unobstructed pathway around the external walls of the structure.

503.1.2 Additional Access. The Fire Prevention Department is authorized to require more than one fire apparatus access road based on the potential for impairment of a single road by vehicle congestion, condition or terrain, climatic conditions or other factors that could limit access.

The fire Chief is hereby authorized and empowered to establish and designate fire lanes as deemed necessary for the proper ingress and egress of emergency vehicles. Any fire lane designated by the Fire Chief shall become effective as of the date so designated.

503.1.4. General Maintenance. (a) The Department of Fire Prevention shall report any negligent surface conditions, markings, or signs to the owner or person in control of property upon which a fire lane exists and shall issue instructions for repair. (b) It shall be unlawful for the owner or person in control of property upon which a fire lane has been designated or exists to fail to maintain the surface of the fire lane in good condition, free of potholes and other non-approved obstructions. (c) It shall be unlawful for the owner or person in control of property on which a fire lane has been designated or exists to fail to maintain any marking of the fire lane as required by this code in a condition which is not clearly legible. (d) It shall be unlawful for the owner or person in control of property on which a fire lane has been designated or exist to install speed bumps, speed humps or similar traffic calming devices without the prior approval from the City of Lucas Fire Chief's Office. Traffic calming devices shall not exceed 2 ½-inches in height and must be a minimum of 6-inches in width. (e) Fire lanes shall be installed in accordance with City of Lucas Engineering Standards and Details prior to buildings being constructed above finished floor grade.

Section 503.2, amend subsections 503.2.1, 503.2.3 and 503.2.4, to read as follows:

503.2.1 Dimensions. Fire apparatus access roads shall have an unobstructed width of not less than 24 feet (24') and an unobstructed vertical clearance of not less than 14 feet (14'). The fire marshal shall have the authority to increase the width of fire lanes at the entrances off public streets to include the entire width of the drive opening.

503.2.3 Surface. Fire apparatus access roads shall be designed and maintained to support the imposed loads of fire apparatus and shall be constructed to the City of Lucas Engineering Standards and Details. All fire lanes shall be capable of supporting an 80,000 pound vehicle.

503.2.4 Turning Radius. The required turning radius of a fire apparatus access road shall be a minimum of 30 feet inner radius and 54 feet exterior radius. The required turning radii may be decreased if the width of the fire lane increases, as approved by the fire marshal.

Section 503.3, amend to read as follows:

503.3 Marking. Where required by the fire marshal, approved striping or, when allowed by the Fire marshal, signs, or both, or other approved notices shall be provided for fire apparatus access roads to identify such roads or prohibit the obstruction thereof. Signs or notices and striping shall be maintained in a clean and legible condition at all times and replaced or repaired when necessary to provide adequate visibility.

(1) Striping — Fire apparatus access roads shall be marked by painted lines of red traffic paint six inches (6") in width to show the boundaries of the lane. The words "NO PARKING FIRE LANE" or "FIRE LANE NO PARKING" shall appear in four inch (4") white letters at 15 feet intervals on the red border markings along both sides of the fire lanes.

(2) Signs — Shall read "NO PARKING FIRE LANE" or "FIRE LANE NO PARKING" and shall be 12" wide and 18" high. Signs shall be painted on a white background with letters and borders in red, using not less than 2" lettering. Signs shall be permanently affixed to a stationary post and the bottom of the sign shall be six feet, six inches (6'6") above finished grade. Signs shall be spaced not more than fifty feet (50') apart. Signs may be installed on permanent buildings or walls if approved by the fire marshal.

(3) Brick pavers — Brick paver 'banding' of fire lanes may be approved on a case by case basis. Red brick pavers shall be of contrasting colors to provide the visual identity of a 'normally striped' fire lane.

Section 503.4, amend to read as follows:

503.4 Obstruction of Fire Apparatus Access Roads. Fire apparatus access roads shall not be obstructed by persons in any manner, including parking, stopping or standing any non-emergency vehicle, whether attended or unattended, in a fire lane. The minimum widths and clearances established in Section 503.2.1 and any area marked as a fire lane as described in Section 503.3 shall be maintained at all times. The operator of a premise shall maintain, free of obstruction, all fire lanes on his premises. No person may mark, post or otherwise identify a non-fire lane private vehicular passageway as a fire lane or in such a manner as tends to create confusion as to whether the passageway is a fire lane.

Any unauthorized vehicle on a fire lane is: (1) Subject to removal by the operator of the premises, with the expense of removal and storage to be borne by the registered owner of the vehicle. (2) Subject to citation, as well as removal, by the fire marshal or a police officer, and (3) Prima facie evidence that the person in whose name the vehicle is registered is guilty of a violation of the parking provisions of this section.

Section 507, amend subsection 507.5.1 and the exception thereto, and subsection 507.5.3, to read as follows:

507.5.1 Where required. Where a portion of the facility or building is more than 150 feet from a hydrant on a public right-of-way, as measured by an approved route around the exterior of the facility or building, on-site fire hydrants and mains shall be provided where required by the fire marshal.

Exceptions: For Group R-3 occupancies, the distance requirement shall be 600 feet.

507.5.3 Private Fire Service Mains and Water Tanks. Private fire service mains and water tanks shall be periodically inspected, tested and maintained in accordance with NFPA 25 at the following intervals:

1. Private fire hydrants (all types): Inspected annually and after each operation; flow test and maintenance annually.
2. Fire service main piping: Inspection of exposed, annually; flow test every 5 years.
3. Fire service main piping strainers: Inspection and maintenance after each use.
4. Private fire hydrants or those hydrants supplied through or by a fire pump shall be painted red. (Sherwin-Williams #B54R38 or equal)
5. All fire hydrant locations shall be identified by the installation of a blue reflective marker, according to City specifications.
6. Private fire hydrants shall be installed and operational prior to buildings being constructed above finished floor grade.
7. Private fire hydrant annual flow test information shall be forwarded to the Lucas Fire Department upon completion of the service.

Section 603.6, amend by adding subsection 603.6.6, to read as follows:

603.6.6 Maintenance of Chimneys. All multi-family occupancies where fireplaces utilizing solid fuel are used shall have the chimneys inspected and/or cleaned by a certified chimney sweep on a yearly basis. A report of each inspection and/or cleaning shall be submitted to the Fire Prevention Division by no later than November 1st each year.

Section 807.4, amend subsections 807.4.3.2 and 807.4.4.2, by adding exceptions:

807.4.3.2 Artwork. Artwork and teaching materials shall be limited on the walls of corridors and classrooms to not more than 20 percent of the wall area.

Exception: Corridors and classrooms protected by an approved automatic sprinkler system installed in accordance with Section 903.3.1.1 shall be limited to 50 percent of the wall area.

807.4.4.2 Artwork. Artwork and teaching materials shall be limited on the walls of corridors and classrooms to not more than 20 percent of the wall area.

Exception: Corridors and classrooms protected by an approved automatic sprinkler system installed in accordance with Section 903.3.1.1 shall be limited to 50 percent of the wall area.

Section 901.6, amend by adding subsection 901.6.3, which shall read as follows:

901.6.3 False Alarms. False alarms shall not be given, signaled or transmitted or caused or permitted to be given, signaled or transmitted in any manner. The technician performing maintenance on any system capable of transmitting an alarm to the Lucas Emergency Dispatch Center shall notify the center, as well as the monitoring company for the property, prior to any work being performed on the system. In addition, the technician shall notify the Lucas Emergency Dispatch Center, as well as the monitoring company for the property, immediately upon placing the system back in service.

Section 901.7, amend to read as follows:

901.7 Systems Out of Service. Where a required fire protection system is out of service or in the event of an excessive number of accidental activations, the Fire Department and the fire marshal shall be notified immediately and, where required by the fire marshal, the building shall either be evacuated or an approved fire watch standby personnel shall be provided for all occupants left unprotected by the shut down until the fire protection system has been returned to service. Where utilized, fire watch standby personnel shall be provided with at least one approved means for notification of the fire department and their only duty shall be to perform constant patrols of the protected premises and keep watch for fires.

Section 903.1, amend by adding subsection 903.1.2, to read as follows:

903.1.2 Residential Systems. Residential sprinkler systems installed in accordance with NFPA 13D or NFPA13R shall not be recognized for the purposes of exceptions or reductions, commonly referred to as "trade-offs", permitted by other requirements of this code or the International Building Code.

Section 903.2, 2003 International Fire Code remains unchanged, to read as follows:

903.2 Where required. An automatic sprinkler system shall be installed throughout all levels of new Group A, B, E, F, H, I, M, R, S and Commercial U occupancies of more than zero (0) square feet in accordance with section 903 of the 2003 IFC as amended by the City of Lucas, TX and referenced standards.

Unless otherwise required by the code, the following exceptions apply:

Exceptions:

1. Gazebos.

2. Independent restroom buildings associated with golf courses, parks and similar uses.

3. Stand alone guardhouses for residential and commercial developments, not to exceed 200 square feet.

4. Detached S occupancies (accessory type structures) in commercial, with limitations to type of storage and occupancy. Commercial detached type S limited to no sprinklers required in low hazard storage, with no occupancy, and with no a/c space and must be subordinate to main structure.

5. Detached noncombustible carports for commercial developments with less than 15,000 square feet (1,394 m^2) covered parking.

6. Fuel dispensing canopies not exceeding 1,500 square feet (139 m^2).

7. Sprinklers in buildings under 4,000 square feet (377 m^2) with an occupancy load less than 20 may install a 13R system.

8. Special use noncombustible structures as approved by the AHJ.

Alterations or Repairs.

(1) An automatic sprinkler system shall be provided in any existing building of any size area or occupancy altered or repaired after the effective date of this ordinance

where 50% or greater of either the square footage or the assessed value of the improvements.

Exception:
A single-family dwelling need not be equipped with an automatic sprinkler system when remodeled.

(2) An automatic sprinkler system shall be provided in any existing building of any size area or occupancy which undergoes a change of occupancy.

Subsections 903.3.1.1 and 903.3.1.1.1, amend to read as follows:

903.3.1.1 NFPA 13 sprinkler systems. Where the provisions of this code require that a building or portion thereof be equipped throughout with an automatic sprinkler system, sprinklers shall be installed throughout in accordance with NFPA 13, latest edition, except as provided in Sections 903.3.1.1.1.

903.3.1.1.1 Exempt Locations. When approved by the fire marshal, automatic sprinklers shall not be required in the following rooms or areas where such rooms are protected with an approved fire detection system in accordance with Section 907.2 that will respond to visible or invisible particles of combustion. Sprinklers shall not be omitted from any room merely because it is damp, of fire-resistance rated construction or contains electrical equipment.

1. Any room where the application of water, or the combination of flame and water, constitutes a serious life or fire hazard.
2. Any room or space where sprinklers are considered undesirable because of the nature of the contents, when approved by the Fire Chief.

Subsection 903.3.1.2, amend to read as follows:

903.3.1.2 NFPA 13R Sprinkler Systems. Where allowed in buildings of Group R, up to and including four stories in height, automatic sprinkler systems shall be installed throughout in accordance with NFPA 13R, as amended to include small rooms, closets, covered porches, patios and balconies.

Subsection 903.3.5, amend to read as follows:

903.3.5 Water Supplies. Water supplies for automatic sprinkler system shall comply with this section and the standards referenced in Section 903.3.1. The potable water supply shall be protected against backflow in accordance with the requirements of this section and the International Plumbing Code. Water supplies as required for such systems shall be provided in conformance with the supply requirements of the respective standards; however, every fire protection system shall be designed with a 15 psi safety factor.

When any portion of the facility or buildings protected is in excess of 150 feet from a water supply on a public street, as measured by an approved route around the exterior of the facility or building, additional fire hydrants and mains capable of supplying the required fire flow shall be required. Additional hydrant locations shall be based on fire load, internal fire protection systems, required fire flow, vehicular traffic, fire lanes, and other special circumstances. Fire hydrants shall be spaced no farther than six hundred feet (600') in residential areas and three hundred feet (300') in other than residential areas, measured center-on-center. These distances may be modified when sufficient data is provided showing equivalent fire protection can be maintained. Fire hydrants shall be located no closer than three feet (3') nor farther than six feet (6') from a fire lane. Fire supply lines shall be looped systems with no dead end mains or fire lines greater than one hundred fifty feet (150') in length unless approved by the fire marshal.

Section 903.3.7, amend to read as follows:

903.3.7 Fire Department Connections. Fire Department Connections (FDC) shall not be located in or on structures. The FDC shall be located no closer than three feet (3') nor farther than six feet (6') from a fire lane. The line from the FDC to the sprinkler riser shall be isolated from any hydrant through the use of an approved check valve. At no time shall the FDC increase pressure to any fire hydrant. The FDC shall be located no farther than fifty feet (50') from a fire hydrant and shall be located on the same side of the fire lane as the hydrant. The FDC shall be installed at a height not to exceed thirty-inches (30"), in accordance with the City of Lucas Engineering Standards and Details.

Section 903.4, amend and the Exceptions thereto to read as follows:

903.4 Sprinkler System Supervision and Alarms. All valves controlling the water supply for automatic sprinkler systems, pumps, tanks, water levels and temperatures, critical air pressures, and water-flow switches on all sprinkler systems shall be electronically supervised.

Sprinkler and standpipe system water-flow detectors shall be provided for each floor tap to the sprinkler system and shall cause an alarm upon detection of water flow for more than 45 seconds, not to exceed 120 seconds. All control valves in the sprinkler and standpipe systems, except for the Fire Department hose connection valves, shall be electrically supervised to initiate a supervisory signal at the central station upon turning or operating the valve.

Exceptions:

1. Automatic sprinkler systems protecting one- and two-family dwellings.
2. Jockey pump control valves that are sealed or locked in the open position.
3. Control valves to commercial kitchen hoods, spray booths or dip tanks that are sealed or locked in the open position.

4. Valves controlling the fuel supply to fire pump engines that are sealed or locked in the open position.
5. Trim valves to pressure switches in dry, pre-action and deluge sprinkler systems that are sealed or locked in the open position.
6. Manual dry standpipe system must be supervised with a minimum of 10 psig and a maximum of 40 psig air pressure with a high/low alarm.

Section 905.1, amend to read as follows:

905.1 General. All buildings greater than 20,000 square feet, except for Group R-3, shall be equipped with 2½" hose valves stations. The hose valve locations shall be supplied by a minimum 2½" line from the automatic fire sprinkler system. The hose valve stations shall consist of a 2½" valve. A demand of a minimum of 150 gpm shall be included in the hydraulic calculations. Standpipe connections shall be placed adjacent to all required exits to the structure and at two hundred feet (200') intervals along major corridors thereafter.

Section 907.1, amend by adding Subsection 907.1.3, to read as follows:

907.1.3 Design Standards. All fire alarm systems, whether new or replacement that serve 20 or more alarm activating devices shall be analog intelligent addressable fire detection systems. All fire alarm systems serving 20 or more activating devices shall be designed using class "A" wiring methods with a minimum of 6 feet separation between the supply and return loops, and styles shall be IDC-style D, SLC-style 6. All notification device circuits can be class B style Y.

All fire alarm system communicators shall be capable of sending point (smoke detector, manual pull station, water flow, etc.) specific data to central station monitoring companies.

All fire alarm systems shall be installed in such a manner that the failure of any single alarm-actuating or alarm-indicating device will not interfere with the normal operation of any other devices.

Exception: Existing systems need not comply unless the total building remodel or expansion exceeds 25% of the original building.

Section 907.2.1, amend and delete the exceptions thereto, to read as follows:

907.2.1 Group A. A manual fire alarm system shall be installed in accordance with NFPA 72, National Fire Alarm Code, in Group A occupancies having an occupant load of 300 or more. Portions of Group E occupancies occupied for assembly purposes shall be provided with a fire alarm system as required for Group E occupancy.

Section 907.2.1.1, amend to read as follows:

907.2.1.1 System Initiation in Group A Occupancies With an Occupant Load of Three Hundred (300) or More. Activation of the fire alarm in Group A occupancies with an occupancy load of three hundred (300) or more shall immediately initiate an approved prerecorded message announcement using an approved voice communication system in accordance with NFPA 72 that is audible above the ambient noise level of the occupancy.

Exception: When approved, the prerecorded announcement is allowed to be manually deactivated for a period of time, not to exceed three (3) minutes, for the sole purpose of allowing a live voice announcement from an approved, constantly attended location.

Section 907.2.2, amend and delete the exceptions thereto, to read as follows:

907.2.2 Group B. A manual fire alarm system shall be installed in Group B occupancies having an occupant load of 500 or more persons or more than 100 persons above or below the lowest level of exit discharge.

Section 907.2.3, amend by deleting the exceptions thereto, to read as follows:

907.2.3 Group E. A manual fire alarm system shall be installed in Group E educational occupancies. When automatic fire extinguishing systems or automatic fire alarm systems are installed, such systems or detectors shall be connected to the building fire alarm system. An approved smoke detection system shall be installed in all Group E day care occupancies. All buildings, whether portable buildings or the main building, will be considered one building for alarm occupant load consideration and interconnection of alarm system.

Subsection 907.2.4, amend by deleting the exception thereto, to read as follows:

907.2.4 Group F. A manual fire alarm system shall be installed in Group F occupancies that are two-stories in height or greater than 75,000 square feet.

Section 907.2.13, amend and the exceptions thereto shall be deleted to read as follows:

907.2.13 High-rise Buildings. Buildings with a floor used for human occupancy located more than fifty-five feet (55') above the lowest level of fire department vehicle access shall be provided with an automatic smoke detection system in accordance with Section 907.2.13.1, a fire department communications system in accordance with Section 907.2.13.2 and an emergency voice/alarm communication system in accordance with Section 907.6.2.2.

Subsection 907.7.3.2, amend to read as follows:

907.7.3.2 High-rise Buildings. In buildings that have floors located more than fifty-five feet (55') above the lowest level of fire department vehicle access, a separate zone (point ID) device shall be provided for each alarm initiating device.

Section 910.4, amend by adding the following:

910.4 Mechanical Smoke Exhaust. Where approved by the fire code official, engineered mechanical smoke exhaust shall be an acceptable alternative to smoke and heat vents.

In buildings equipped with an Early Suppression Fast Response (ESFR) sprinkler system or a Class IV sprinkler system, curtain boards and smoke and heat vents are to be eliminated and an approved mechanical smoke and removal system utilized. This system must de-activate all fans upon initiation of the fire alarm system. The system shall have a manual override system in addition to the vent controls located in the protected area. A separate Fire Department access or key switch may be required at a remote location in the building. Each individual fan shall be capable of being activated by a fireman's override switch located in the pump room. Design of the mechanical smoke and heat removal system shall be based on a minimum of four (4) air changes per hour. When activated by the fire alarm, all other mechanical ventilation systems shall shut down.

Subsection 910.4.5, amend to read as follows:

910.4.5 Supply Air. Supply air for exhaust fans shall be provided at or near the floor level and shall be sized to provide a minimum of twenty-five percent (25%) of required exhaust. Openings for supply air shall be uniformly distributed around the periphery of the area served. Personnel doors and dock doors shall not be considered as part of the supply air system.

Subsection 3301.1.3, amend and exceptions thereto to read as follows:

3301.1.3 Fireworks. The possession, manufacture, storage, sale, handling and use of fireworks are prohibited within the City of Lucas and within 5,000 feet of its borders.

Exception: Approved, professional displays in accordance with Sections 3304 and 3308 shall be permitted on a case to case basis.

Section 3403.6, amend to read as follows:

3403.6 Piping Systems. Piping systems, and their component parts, for flammable and combustible liquids shall be in accordance with this section, including an approved method of secondary containment shall be provided for underground tanks and piping systems.

Subsection 3404.2.11.5, amend to read as follows:

3404.2.11.5 Leak Prevention. Leak prevention for underground tanks shall comply with Sections 3404.2.11.5.1 and 3404.2.11.5.2. An approved method of secondary containment shall be provided for underground tanks and piping systems.

Section 3803.2, amend to include Section 3803.2.1.8:

Section 3803.2.1.8 Jewelry Repair, Dental Labs and Similar Occupancies. Where natural gas service is not available, portable LP-gas containers are allowed to be used to supply approved torch assemblies or similar appliances. Such containers shall not exceed 20-pound water capacity. Aggregate capacity shall not exceed 60-pound water capacity. Each container shall be separated by 20 feet or a one-hour construction barrier.

. . . "

Section 2. All ordinances of the City of Lucas in conflict with the provisions of this Ordinance shall be, and same are hereby, repealed, provided, however, that all other provisions of said Ordinances are not in conflict herewith shall remain in full force and effect.

Section 3. Should any word, sentence, paragraph, subdivision, clause, phrase or section of this Ordinance or of the City of Lucas Code of Ordinances, as amended hereby, be adjudged or held to be voided or unconstitutional, the same shall not affect the validity of the remaining portions of said Ordinances or the City of Lucas Code of Ordinances, as amended hereby, which shall remain in full force and effect.

Section 4. An offense committed before the effective date of the Ordinance is governed by prior law and the provisions of the City of Lucas Code of Ordinances in effect when the offense was committed and the former law is continued in effect for this purpose.

Section 5. Any person, firm or corporation violating any of the provisions or terms of this Ordinance shall be subject to the same penalty as provided for in the City of Lucas Code of Ordinances, as amended, and upon conviction shall be punished by a fine not to exceed the sum of Two Thousand Dollars ($2,000) for each offense, and each and every day such violation shall continue shall be deemed to constitute a separate offense.

Section 6. This Ordinance shall take effect immediately from and after its passage and publication in accordance with the provisions of the Charter of the City of Lucas, and it is accordingly so ordained.

DULY PASSED AND APPROVED BY THE CITY COUNCIL OF THE CITY OF LUCAS, COLLIN COUNTY, TEXAS, ON THIS 6TH DAY OF NOVEMBER, 2014.

APPROVED:

Rebecca Mark, Mayor

APPROVED AS TO FORM:

Joseph J. Gorfida, Jr., City Attorney
(10-13-14/68631)

ATTEST:

Jennifer Faircloth, TRMC, Administrative Assistant

November 10, 2014

To: Mayor Rebecca Mark
Mayor Pro Tem Kathleen Peele
Council Member Wayne Millsap
Council Member Jim Olk
Council Member Steve Duke
Council Member Philip Lawrence
Council Member Debbie Fisher
City Manager Joni Clark

This morning I accepted a temporary assignment working for The City of Lucas and wish to tender my resignation as a member of the Board of Adjustments effective immediately.

Regards,
Cathey Bonczar

Item No. 8

City of Lucas
Council Agenda Request
Meeting Date: November 20, 2014

Name & Title of Requestor: City Manager Joni Clarke

Agenda Item:

Consider the condition of streets and causes for street failure, design elements, funding strategies and provide guidance to staff regarding a potential street project, the parameters of the project, prioritization of specified streets and to provide feedback on establishing a timeline.

Background Information:

In May of this year, Lucas citizens, the City Council, staff, and consultants met to discuss a new approach to the roadway maintenance, design, and construction standard use on various city collectors. The City Council provided various areas of concern that staff should focus on in preparation for a revision to the Master Thoroughfare Plan and projected roadway maintenance in 2015. The professional services of Metropolitan Infrastructure, PLLC, and Southwest Securities was engaged. The following streets were to be the focus of the presentation today: Winningkoff Road, Blondy Jhune, Snider Lane, Forest Grove Road, and Stinson Road.

Attachments/Supporting Documentation:

A copy of the presentation and supporting documents will be forwarded under separate cover.

Budget/Financial Impact:

To be determined

Recommendation:

Motion:

Item No. 09

City of Lucas
Council Agenda Request
Meeting Date: November 20, 2014

Name & Title of Requestor: **Mayor Pro Tem Kathleen Peele**
Public Works Director Stanton Foerster

Agenda Item:

Discuss and consider 2014 Update of the Collin County Mobility Plan and how it relates to the City of Lucas Thoroughfare Plan.

Background Information:

The Collin County Commissioners Court adopted the 2014 Update of the Collin County Mobility Plan on August 18, 2014. The Court believes that the Mobility Plan Update was developed for the benefit of all entities which provide the various forms of transportation in Collin County; it is not limited to the Collin County government.

The following are some of the differences between the City of Lucas plan and the County plan:

STREET NAME	LUCAS PLAN	COUNTY PLAN
Forest Grove Rd	2-Land Undivided (Ln U)	4-Ln U
E Winningkoff Rd	2-Ln U	4-Ln U
Snider Ln	2-Ln U	4-Ln U
Estates Pkwy	4-Ln U	**6-Ln Divided (Ln D)**
Blondy Jhune Rd	2-Ln U	4-Ln U
McGarity Rd	Not Shown (NS)	**4-Ln D**
Estelle Ln	NS	4-Ln U
Lucas Rd	4-Ln U	**6-Ln D**
Highland Dr	2-Ln U	**6-Ln D**
Rock Ridge Rd	2-Ln U	4-Ln U
Allison Ln	4-Ln U	**4-Ln D**
Ingram Ln	2-Ln U	**4-Ln D**
Lewis Ln	2-Ln U	4-Ln U

Stinson Rd	2-Ln U	4-Ln U
Country Club Rd	4-Ln U	**4-Ln D**
Southview Dr (N of Seis Lagos Tr)	4-Ln U	4-Ln U
Southview Dr (S of Seis Lagos Tr)	4-Ln U	**6-Ln D**
Winningkoff Rd	2-Ln U	4-Ln U
Orr Rd (N of Forest Grove)	2-Ln U	**6-Ln D**
Orr Rd (S of Forest Grove)	2-Ln U	4-Ln U

There is a new six-lane divided roadway shown: Country Club Rd/Southview Dr connector. It runs from the Country Club Rd/W Lucas Rd intersection south to the Southview Dr/Seis Lagos Tr intersection through Craig's Car Care, Rockland Farms Phase II, several residences along Stinson Rd, Brookhaven Ranch Estates, and Hunt/Wylie ISD commercial tract. The County dropped Brockdale Park Rd from their plan. The 2014 Update of the Collin County Mobility Plan for the Lucas area is shown in the attachment.

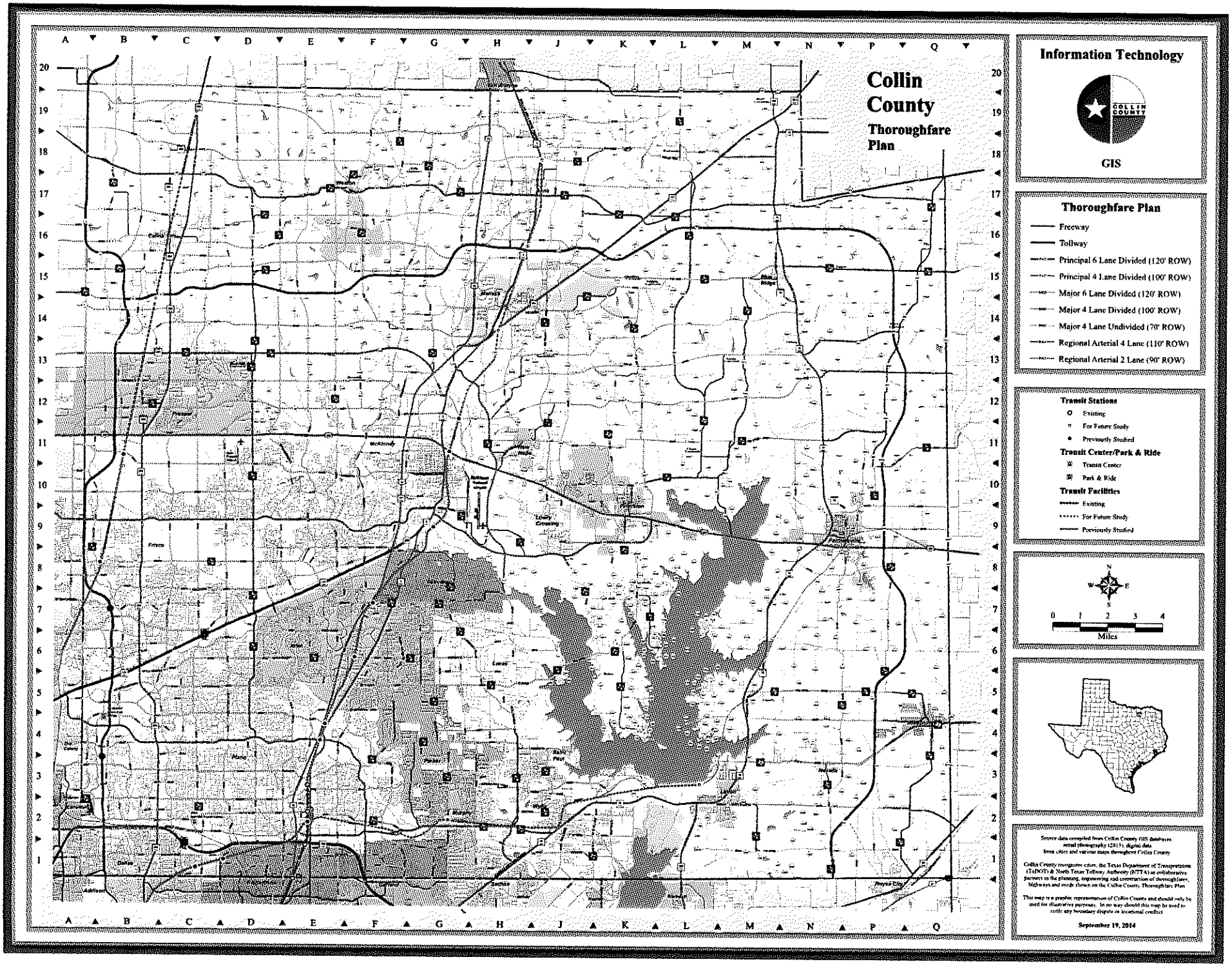
Attachments/Supporting Documentation:

1. 2014 Update of the Collin County Mobility Plan
2. Collin County Mobility Plan Highlights
3. 2014 Update of the Collin County Mobility Plan (Lucas Area)
4. Lucas Figure 10.2.1
5. Lucas Figure 10.2.2

Budget/Financial Impact:

Recommendation:

Motion:


Collin County
Thoroughfare Plan
Information Technology
GIS
Thoroughfare Plan
Freeway
Tollway
Principal 6 Lane Divided (120' ROW)
Principal 4 Lane Divided (100' ROW)
Major 6 Lane Divided (120' ROW)
Major 4 Lane Divided (100' ROW)
Major 4 Lane Undivided (70' ROW)
Regional Arterial 4 Lane (110' ROW)
Regional Arterial 2 Lane (90' ROW)
Transit Stations
Existing
For Future Study
Previously Studied
Transit Center/Park & Ride
Transit Center
Park & Ride
Transit Facilities
Existing
For Future Study
Previously Studied
N
W
E
S
0 1 2 3 4
Miles
Source data compiled from Collin County GIS databases,
aerial photography (2013), digital data
from cities and various maps throughout Collin County.
Collin County recognizes cities, the Texas Department of Transportation (TxDOT) & North Texas Tollway Authority (NTTA) as collaborative partners in the planning, engineering and construction of thoroughfares, highways and roads shown on the Collin County Thoroughfare Plan.
This map is a graphic representation of Collin County and should only be used for illustrative purposes. In no way should this map be used to settle any boundary dispute or locational conflict.
September 19, 2014

Collin County Mobility Plan 2014 Update Highlights

Demographic projections (population and employment) were made for a near-term planning horizon of 2020 and a longer term of 2035. These projections were made independent of the NCTCOG projections, concentrating on information from cities and other sources specifically in Collin County. Therefore, the resulting projections will vary somewhat from the NCTCOG projections. There are also projections from other sources that are both higher and lower, giving a basis for some to disagree with the Mobility Plan projections. However, the Mobility Plan projections were made with the same sound methodology that resulted in the 2% precision of the previous update in 2007, therefore, we have a high level of confidence in the reasonableness of these projections (pp 38, 39, with additional information in Appendix B).

The projections were made using Traffic Survey Zones (TSZ). Having these increments is vital to linking the traffic generated by the population and employment to network of roadways. These TSZs were aggregated in the vicinity of each city and the city name was used to label the aggregation of TSZs. It must be noted that the TSZs do not conform to the city limits of the cities; therefore, the population and employment projections do not relate to those of the cities. This situation is explained Mobility Plan on pages 31 and 32. The most graphic examples of this are the TSZ groupings in the northeastern part of the County.

The traffic forecasts were made using the Dallas-Fort Worth Regional Travel Demand Model for the Expanded Area (DFX), developed by the NCTCOG. The results of the travel demand forecasts are illustrated as projected networks for the two planning horizons (pp 44, 45) as well as the projected levels of service for those networks (pp 41, 42). These graphic depictions of the future level of service provide easy review of the projected state of mobility in 2020 and 2035.

In order to provide the County with an idea of improvements needed in the near term, a list of projects needed to improve the level of service in 2020 was developed. This list was developed by observing roadways which showed a "level of service F" in 2020 which have the potential to add capacity (add lanes). While tollways and US 75 in north Collin County were included in this list, these projects already have funding sources for improvement. The remaining improvements were listed as "unfunded". It will be up to the Commissioners Court to determine whether or not the County will provide any funding for these improvements.

One of the most significant observations that is made in the Mobility Plan is that there will be many significant roadways which will have traffic demands beyond their capacity. The scope of the Mobility Plan limited thoroughfares (including State highways that are not now freeways) to 6-lanes with at-grade intersections. Section 8.2 discusses the need for further study and lists US 380 and SH 78 as two roadways which will be severely overloaded and which need serious planning to prevent these facilities from being significant bottlenecks in the Collin County transportation system.

Other modes of transportation besides vehicular were addressed in the Mobility Plan. The long range plans by DART and by NCTCOG for transit (bus and rail) were included in the Plan. However, the Plan recommends that rail transit be extended all the way to the north County line along available rail

corridors. This will require considerable coordination among transit agencies and the cities, but Collin County will not necessarily be involved in this part of the mobility improvements.

The 2014 Mobility Plan Update makes it obvious that preparing the transportation system for the future can only be accomplished through a very strategic, coordinated effort of all the transportation providers in the County. The County is ready to consult with those various providers as they plan and implement their plans so that Collin County can perform its appropriate role.

It is hoped that this Update will be useful to you and will be the basis for meaningful discussions about how we can work together to improve mobility in Collin County.

Thoroughfare Plan


Freeway


Tollway

Principal 6 Lane Divided (120' ROW)

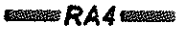
Principal 4 Lane Divided (100' ROW)

Major 6 Lane Divided (120' ROW)

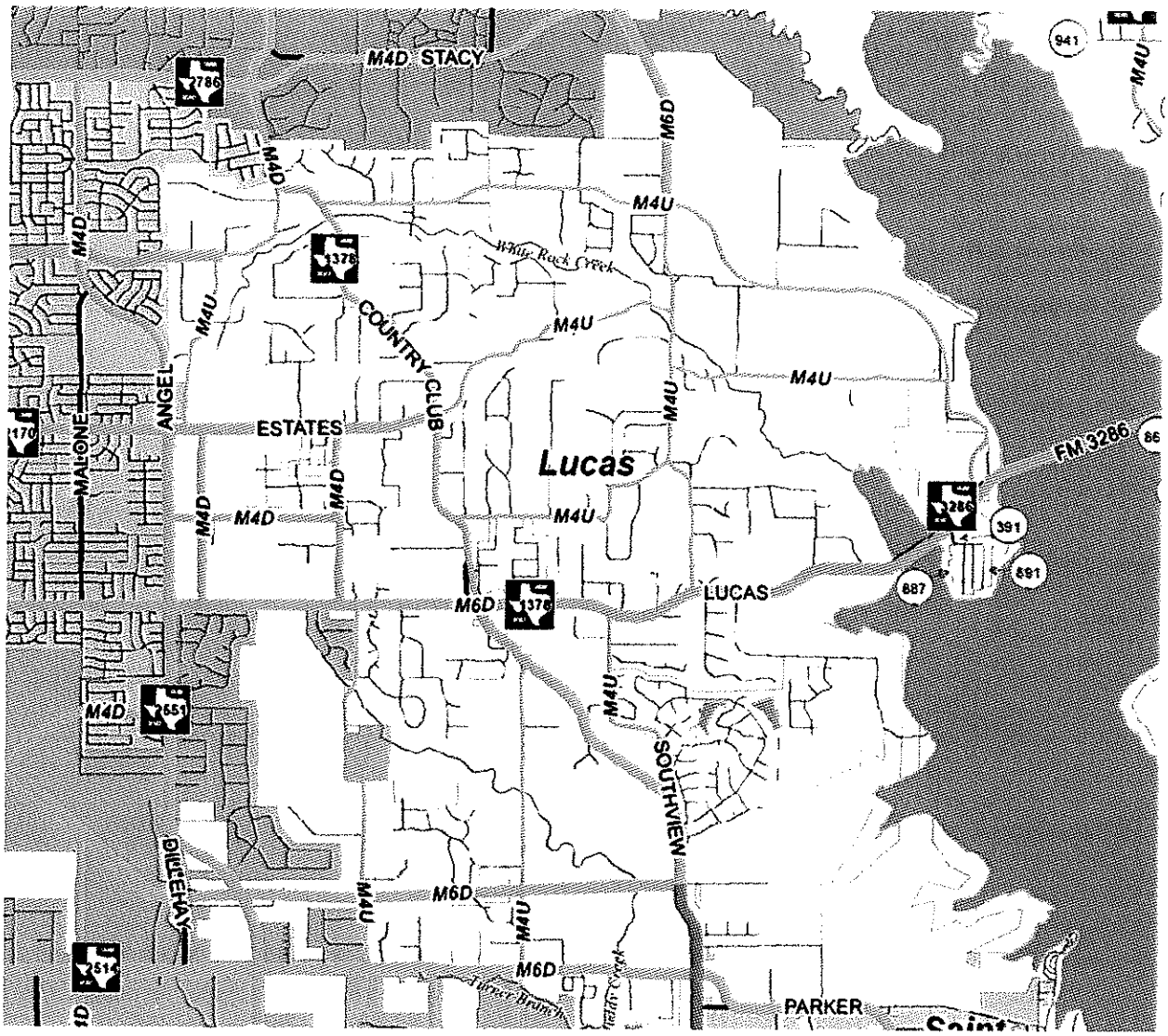
Major 4 Lane Divided (100' ROW)

Major 4 Lane Undivided (70' ROW)

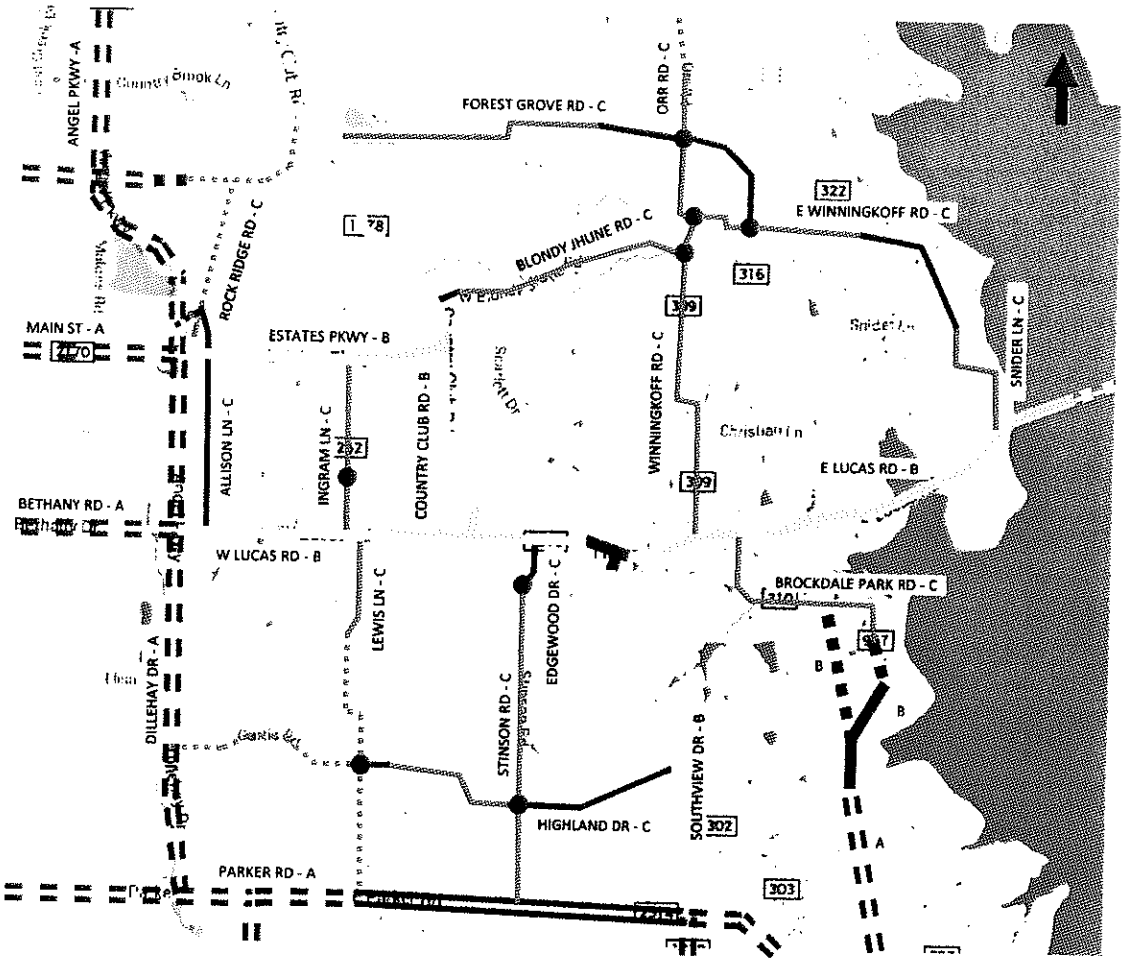
Regional Arterial 4 Lane (110' ROW)



Regional Arterial 2 Lane (90' ROW)


M4D
STACY
M6D
M4U
2786
1378
White Rock Creek
COUNTRY CLUB
ANGEL
ESTATES
MALONE
Lucas
FM 3286
LUCAS
SOUTHVIEW
M6D
PARKER
941
391
887
M4U

2014 Master Thoroughfare Plan (Figure 10.2.1)



Legend

Solid lines are thoroughfares within the city.
Dashed lines are thoroughfares outside the city.
Blue lines are proposed thoroughfares.
Blue dots are proposed roundabout locations.
Thoroughfare name is followed by thoroughfare type.

Thoroughfare Type	No. of Lanes	Divided Roadway	Pavement Width (Feet)	Right-of-Way Width (Feet)
A	Six	Yes	78 Plus a 16-Foot Median	120
B	Four	No	64	90
C	Two	No	34	60
D (Not Shown)	Two	No	24	50

2014 Master Thoroughfare Plan (Figure 10.2.2)

Street Name	Thoroughfare Type	Limits
Allison Ln	C	All
Angel Pkwy/Dillehay Dr	A	All
Brockdale Park Rd	C	First 7,000 Feet South of E Lucas Rd
Brockdale Park Rd	B	From 7,000 to city limits
Brockdale Park Rd	A	All outside the city limits
Blondy Jhune Rd	C	All
Country Club Rd	B	All
East Winningkoff Rd	C	All
Edgewood Dr	C	All
Estates Pkwy	B	All
Forest Grove Rd	C	All
Highland Dr	C	All
Ingram Ln	C	All
Lewis Ln	C	All
Lucas Rd	B	All
Orr Rd	C	All
Parker Rd	A	All
Rock Ridge Rd	C	All
Snider Ln (East/West)	D	Between Winningkoff Rd and E Winningkoff Rd
Snider Ln (North/South)	C	From E Lucas Rd to E Winningkoff Rd
Southview Dr	B	All
Stinson Rd	C	South of Edgewood Dr Roundabout
Stinson Rd	D	W Lucas Road to Edgewood Dr Roundabout
Winningkoff Rd	C	All

Roundabout Locations

1. Orr Rd/Forest Grove Rd
2. Winningkoff Rd/Orr Rd/E Winningkoff Rd
3. Forest Grove Rd/E Winningkoff Rd
4. Winningkoff Rd/Blondy Jhune Rd/Winningkoff Rd
5. Travis Ranch Ln/Ingram Ln
6. Stinson Rd/Edgewood Dr
7. Stinson Rd/Highland Dr
8. Highland Dr/Lewis Ln

Item No. 10

City of Lucas
City Council Regular Meeting
November 20, 2014

Name & Title of Requestor: City Manager Joni Clarke
HR Manager Cheryl Meehan

Agenda Item:

Presentation by Wendi Delgado regarding the methodology used to conduct a comprehensive market analysis and survey with discussion and direction from City Council regarding expectations and feedback on the process.

Background Information:

The City of Lucas has contracted with Wendi Delgado of Delgado Consulting to perform the following specific services for the City of Lucas:

- A market salary survey will be completed for all twenty-two positions employed by Client using data supplied by the eight benchmark cities selected by Client.
- A benefit survey will be completed using data supplied by the eight benchmark cities selected by Client.
- If the market salary survey reveals deficiencies regarding current compensation levels a compensation strategy will be formulated to increase these salary deficiencies to one hundred percent of the average market rate.
- A pay scale will be created to assign positions to the appropriate level taking into consideration the internal organizational structure of the Client.
- A presentation will be developed and presented to Client on November 20th, 2014 regarding the services provided.
- A presentation will be developed and presented to Client on February 5th, 2015 regarding the completion of services provided.

In addition, Ms. Delgado has agreed to include staffing levels to ascertain the number of employees by department from the City's benchmark cities and to obtain information regarding certification pay levels for fire and public works staff.

Attachments/Supporting Documentation:
N/A

Budget/Financial Impact:
The cost of providing the services outlined in the professional services agreement is $6,880 which is slightly higher than the original projected cost of $5,800 due to an additional request for a presentation on November 20th.

Recommendation:
None. This presentation and agenda item is to ensure that the City Council has an opportunity to provide Ms. Delgado with any guidance they may have to establish their expectations of the project.

Motion:
N/A