Sachse, Texas

Meeting Agenda

City Council

Sachse City Hall
3815 Sachse Road
Building B
Sachse, Texas 75048

Monday, November 5, 2012 | **7:30 PM** | **Council Chambers**

The Mayor and Sachse City Council request that all cell phones and pagers be turned off or set to vibrate. Members of the audience are requested to step outside the Council Chambers to respond to a page or to conduct a phone conversation.

The City Council of the City of Sachse will hold a Regular Meeting on Monday, November 5, 2012, at 7:30 p.m. in the Council Chambers at the Sachse City Hall, 3815 Sachse Road, Building B, Sachse, Texas to consider the following items of business:

Invocation and Pledges of Allegiance to U.S. and Texas Flags.

A. Pledge of Allegiance to the Flag of the United States of America: I pledge allegiance to the flag of the United States of America, and to the Republic for which it stands: one nation under God, indivisible, with liberty and justice for all.
B. Pledge of Allegiance to the Texas State Flag: Honor the Texas flag; I pledge allegiance to thee, Texas, one state under God, one and indivisible.

1. CONSENT AGENDA.

1.a ALL ITEMS LISTED ON THE CONSENT AGENDA WILL BE CONSIDERED BY THE CITY COUNCIL AND WILL BE ENACTED BY ONE MOTION, THERE WILL BE NO SEPARATE DISCUSSION OF THESE ITEMS UNLESS A COUNCIL MEMBER OR CITIZEN SO REQUESTS.

12-1176 Consider approval of the minutes of the October 15, 2012 regular meeting.

Executive Summary
Minutes of the last regular Council meeting.
Attachments: CC Min.10.15.12.pdf

12-1177 Consider approval of the minutes of the October 17, 2012 special meeting.

Executive Summary
Minutes of the recent special Council meeting.
Attachments: CC. Min. 10.17.12.pdf

12-1186 Consider approval of the minutes of the October 29, 2012, special meeting.

Executive Summary
Minutes of the most recent meeting.
Attachments: CC.Min. 10.29.12.pdf

12-1179 Consider approval of an Ordinance of the City Council of the City of Sachse, Texas, amending the Code of Ordinances by amending Chapter 5, Section 5-5 titled "Ambulance Service Fees"; by providing for the ambulance service fees to be adopted through City Council Resolution in the Master Fee Schedule; providing a repealing clause; providing a savings clause; providing a severability clause; providing for a penalty of fine not to exceed the sum of two thousand dollars ($2,000.00) for each offense; and providing an effective date.

Executive Summary
The proposed ordinance would modify the Ambulance Service Fees section by removing the fees and relocating the fees to the Master Fee Schedule. No changes in Ambulance Service Fees are being proposed; the fees are simply being relocated. The Master Fee Schedule will be considered by City Council together with this amendment as a separate but companion item.
Attachments: CD - AMBULANCE SERVICE FEES RELOCATED - DRAFT ORD.pdf

12-1156 Consider a resolution of the City Council of the City of Sachse, Texas, authorizing the Sachse Public Library ("Library") to donate surplus books and circulation materials to the Friends of the Library, a not-for-profit organization, that will resell the goods as a fundraiser for the Library and authorizing the Library Manager to determine the books and circulation material that are surplus property and can be donated; and providing an effective date.
Attachments: Microsoft Word - 51SACHSE Resolution Re Public Library Donating Books to Fr
Microsoft PowerPoint - Council November 5, 2012

12-1121 Consider the application of Woodbridge Properties, L.L.C. for approval of a Preliminary Plat for Woodbridge Phase 18, being 93 single-family residential lots and one (1) Homeowner's Association (HOA) lot, on approximately 40.632 acres, on the north side of Ranch Road, at the northwest corner of Edgeglen Trail and Glenhaven Drive.

Executive Summary
The applicant is requesting to subdivide an approximately 40.632-acre tract to consist of 93 single-family residential lots and

one (1) HOA lot, located on the north side of Ranch Road, at the northwest corner of Edgeglen Trail and Glenhaven Drive.

Attachments: ATTACHMENT 1 - Presentation - CC - WB Ph 18.pdf
ATTACHMENT 2 - Plat Map.pdf
ATTACHMENT 3 - Aerial.pdf
ATTACHMENT 4 - Zoning.pdf
ATTACHMENT 5 - Plat Appilcation.pdf

12-1185 Consider acceptance of the Quarterly Budget and Investment Reports for the quarter ending September 30, 2012.

Executive Summary
Cash on hand at 9/30/2012 was $25,158,721 in all funds, of this amount $20,158,721 was available for investing. The remaining $5,000,000 is held in a non-interest bearing analysis account per contract with American National Bank. The average interest/yield on all investments was .28% and investment earnings totaled $14,389.

General Fund revenues are at 99% of budget and expenditures are at 95% as of 9/30/12. Utility Fund revenues are at 99% of budget and expenditures are at 94%. The year-to-date budget status for both funds is typical for this point in the fiscal year.

Attachments: 4TH QTR Budget and Investment Report

2. MAYOR AND CITY COUNCIL ANNOUNCEMENTS REGARDING SPECIAL EVENTS, CURRENT ACTIVITIES, AND LOCAL ACHIEVEMENTS.

12-1180 Proclamation Declaring November 15, 2012 as America Recycles Day

Executive Summary
Proclamation Declaring November 15, 2012 as America Recycles Day

Attachments: Proc. Recycle.pdf

3. CITIZEN INPUT.

The public is invited at this time to address the Council. The Mayor will ask you to come to the Microphone and state your name and address for the record. If your remarks pertain to a specific Agenda item, please hold them until that item, at which time the Mayor may solicit your comments.

The City Council is prohibited from discussing any item not on the posted agenda according to the Texas Open Meetings Act.

4. REGULAR AGENDA ITEMS.

12-1200 Conduct a public hearing and consider approval of an Ordinance of the City Council of the City of Sachse, Texas amending the Code of Ordinances by amending Chapter 8 "Subdivision" by amending Section 8-21 "Impact Fees" by updating and adopting revised land use assumptions, capital improvements plan and amending the impact fees for water, wastewater and roadway facilities; providing for land use categories; providing for service units; and by amending Section 8-22 to provide for inspections fees to be provided in the City's Master Fee Schedule which is adopted by City Council Resolution; providing a repealing clause; providing a severability clause; providing for a penalty not to exceed two thousand dollars ($2,000.00) for each offense; and providing an effective date.

Executive Summary

The City of Sachse assesses impact fees for development to help pay for water, sanitary sewer, and roadways facilities required to serve that development. State law requires municipalities to update the Land Use Assumptions, Capital Improvement Plan, and Impact Fee Ordinance every five years. The Land Use Assumptions and Capital Improvements Plan was adopted by Ordinance by City Council on September 17, 2012. This item is for the consideration of adoption of the impact fees for water, sanitary sewer, and roadways facilities.

Attachments: ENG - IMPACT FEE ADOPTION - ATTACHMENT 1.pdf
ENG - IMPACT FEE ADOPTION - ATTACHMENT 2.pdf
ENG - IMPACT FEE ADOPTION - REPORT.pdf
ENG - IMPACT FEE ADOPTION - ORDINANCE.pdf
ENG - IMPACT FEE ADOPTION - PRESENTATION.pdf

12-1154 Conduct a public hearing and consider approval of an ordinance of the City Council of the City of Sachse, Texas, amending the Code of Ordinances by amending Chapter 11, Section 11-2 titled "Zoning Fees" by providing for the adoption of a Master Fee Schedule for Zoning Fees through Council resolution; providing a repealing clause; providing a savings clause; providing a severability clause; providing for a penalty of fine not to exceed the sum of two thousand dollars ($2,000.00) for each offense; and providing an effective date.

Executive Summary

The proposed ordinance would modify the Zoning Fees section to remove the fees to be relocated to the Master Fee Schedule. The Master Fee Schedule will be considered by City Council together with this amendment as a separate but companion item.

Attachments: CD - ZONING ORDINANCE FEES REMOVAL - DRAFT ORD.pdf

12-1178 Consider adoption of a Resolution of the City Council of the City of Sachse, Texas, amending and restating the Master Fee Schedule to provide for Zoning Fees; Board of Adjustment Fees; Engineering Fees and amending Plat Filing Fees; providing for Building Permit Fees and Fire Department Fees; as set forth on the Master Fee Schedule attached hereto as Exhibit “A”; and providing for an effective date.

Executive Summary
This item will update accomplish several goals. First, it will update application fees as appropriate. Second, it will assist in the relocation of certain fees from the Code of Ordinances into a central Master Fee Schedule. Finally, it will relocate fees adopted by other resolutions into one central document.

Attachments: CD - AMEND MASTER FEE SCHEDULE - DRAFT RESOLUTION.pdf
CD - AMEND MASTER FEE SCHEDULE - EXHIBIT A.pdf

12-1175 Consider appointments to Boards and Commissions.

Executive Summary
This agenda item will complete the final step for our annual appointments to Boards and Commissions.

Attachments: BD.Status.memo.pdf
BD.Applications.pdf

12-1162 Adjourn to Executive Session pursuant to the provisions of the Texas Government Code, Section 551.074: To discuss the annual evaluation of the City Manager.

Consider any action necessary as a result of Executive Session regarding the annual evaluation of the City Manager.

Executive Summary
Annual review of the City Manager.

5. ADJOURNMENT.

Vision Statement: Sachse is a friendly, vibrant community offering a safe and enjoyable quality of life to all who call Sachse home.

The City of Sachse reserves the right to reconvene, recess or realign the regular session or called Executive Session or order of business at any time prior to adjournment. Note: The Sachse City Council reserves the right to convene into Executive Session pursuant to the Texas Government Code, Title 5, Chapter 551 regarding posted items on the regular meeting agenda.

State law prohibits the introduction or discussion of any item of business not posted at least seventy-two (72) hours prior to the meeting time. Therefore, during Citizen Input for example, the Council is prohibited by state law to deliberate or take action on any issues introduced by the public other than to take them under advisement. Posted: November 2, 2012; 5:00 p.m. Terry Smith, City Secretary _____.

If you plan to attend this public meeting and you have a disability that requires special arrangements at the meeting, please contact Terry Smith, City Secretary, at (972) 495-1212, 48 business hours prior to the scheduled meeting date. Reasonable accommodations will be made to assist your needs.

Sachse, Texas

Sachse City Hall
3815 Sachse Road Building
B
Sachse, Texas 75048

Legislation Details (With Text)

File #:	12-1176	**Version:**	1	**Name:**	Consider approval of the minutes of the October 15, 2012 regular meeting.
Type:	Agenda Item			**Status:**	Agenda Ready
File created:	10/24/2012			**In control:**	City Council
On agenda:	11/5/2012			**Final action:**	
Title:	Consider approval of the minutes of the October 15, 2012 regular meeting. Executive Summary Minutes of the last regular Council meeting.				
Sponsors:					
Indexes:					
Code sections:					
Attachments:	CC Min.10.15.12.pdf				

Date	Ver.	Action By	Action	Result

Title
Consider approval of the minutes of the October 15, 2012 regular meeting.

Executive Summary
Minutes of the last regular Council meeting.

Background
Minutes of the last regular meeting on October 15, 2012 for review and approval.

Policy Considerations
None.

Budgetary Considerations
None.

Staff Recommendations
City Council consider approve the minutes of the October 15, 2012 regular meeting, as a Consent Agenda Item.

powered by Legistar™

REGULAR MEETING

OF THE

CITY COUNCIL OF THE CITY OF SACHSE

OCTOBER 15, 2012

The City Council of the City of Sachse held a Regular Meeting on Monday, October 15, 2012 at 7:30 p.m. at the Sachse City Hall after proper notice. The roll of the duly constituted City Council Members was called which members as follows, to wit:

Mayor Mike Felix
Mayor Pro Tem Jared Patterson
Councilman Bill Adams
Councilwoman Pat McMillan
Councilman Brett Franks
Councilman Todd Ronnau
Councilman Mark Timm

and all were present.

Staff present: City Manager Billy George; City Secretary Terry Smith; Community Development Director Marc Kurbansade; Finance Director Jeri Rainey; City Engineer Shawn Poe; Police Chief Dennis Veach; Public Works Director Joe Crase; Fire Chief Doug Kendrick; Parks Director Lance Whitworth; Library Manager Mignon Morse; Human Resources Manager Laura Morrow and Sachse EDC Director Carlos Vigil.

Invocation and Pledge of Allegiance to U.S. and Texas Flags:
The invocation was offered by Councilman Timm and the pledges were led by Cub Scout Pack 243.

1. Consent Agenda:
Councilman Timm moved to approve Consent Agenda No. 12-1158 Consider approval of the minutes of the October 1, 2012, regular meeting; 12-1133 Resolution No. 3427 of the City Council of the City of Sachse, Texas, authorizing the purchase of two (2) 2013 Ford Interceptor Utility police package vehicles from Sam Packs Five Star Ford through the Texas Multiple Schedule Contract Program ('TXMAS') in the amount not to exceed fifty one thousand four hundred thirty five ($51,435) for the City of Sachse Police Department; providing for an effective date; and Resolution providing for authorization to purchase two police vehicles; and 12-1136 Ordinance No. 3428 of the City of Sachse, Texas, amending the Code of Ordinances by amending Chapter 3 "Building Regulations" by amending Section 3-1 "International Building Code" to adopt the provisions of the 2009 Edition of the International Building Code with amendments; by amending Section 3-1.1 "International Residential Code" to adopt the provisions of the 2009 Edition of the International Residential Code with amendments; by amending Section 3-1.2 "International Energy Conservation Code" to adopt the provisions of the 2009 Edition of the International Energy Conservation Code with amendments; by amending Section 3-2 "International Plumbing Code" to adopt the provisions of the 2009 Edition of the International Plumbing Code with amendments; by amending Section 3-3 "International Mechanical Code" to adopt the provisions of the 2009 Edition of the International Mechanical Code with

amendments; by amending Section 3-4 "National Electrical Code" to adopt the provisions of the 2008 Edition of the National Electrical Code" with amendments; by amending Section 3-22 "International Fuel Gas Code" to adopt the provisions of the 2009 Edition of the International Fuel Gas Code with amendments; by amending Chapter 3 "Building Regulations" by amending Section 3-23 "International Property Maintenance Code" to adopt the provisions of the 2009 Edition of the International Property Maintenance Code with amendments and to adopt Appendix A; by amending Chapter 5 "Fire protection" by amending Section 5-1 "International Fire Code" to adopt the provisions of the 2009 Edition of the International Fire Code with amendments and adopting Appendices B, C, D, I and J; providing a repealing clause; providing a savings clause; providing a severability clause; providing for a penalty of fine not to exceed the sum of two thousand dollars. The motion was seconded by Councilman Adams and carried unanimously.

2. Mayor and City Council Announcements regarding special events, current activities and local achievements:

12-1135 Recognize employees for their service to the City of Sachse.

12-1122 Staff Briefing: Sachse Community Development Department.

Mayor Felix recognized Cub Scout Pack 243 for their attendance at the Council meeting for their citizenship requirements.

Mayor Pro Tem Patterson mentioned the Chamber of Commerce's successful Fallfest festival last Saturday. First Baptist Church and the YMCA sponsored bounce houses at the event.

Councilman Franks noted the Parks Department is sponsoring the Pumpkin Prowl on October 27th at 6:00 p.m. at Salmon Park and the Daddy/Daughter Dance on November 30th at the Senior Center. October 15 thru November 15 is the America Recycles Campaign and November 15th is America Recycles Day.

Mayor Felix thanked the Chamber of Commerce stating Saturday was another successful Fallfest Festival, noting it gets bigger and better each year.

Mayor Felix noted the upcoming events: November 6th is Election Day; November 22 is the Turkey Trot at 8:00 a.m. at Sachse High School; and December 8th is the Christmas Parade and Cookies with Santa.

3. Citizen Input:

Kathy Cobb 3820 6th Street, thanked the Library and Friends that had booths at Fallfest. She mentioned that November 3rd is Veterans Day and there will be an event at the museum.

4. Regular Agenda Items:

12-1161 Discuss and consider a resolution of the City Council of the City of Sachse, approving a thirty-six (36) month lease/purchase for two (2) LIFEPAK 15 monitor/defibrillators from PHYSIO-CONTROL, INC.; and providing for an effective date:

Following discussion, Mayor Pro tem Patterson moved to approve Resolution No. 3429 approving a thirty-six (36) month lease/purchase for two (2) LIFEPAK 15 monitor/defibrillators from PHYSIO-CONTROL, INC.; and providing for an effective date. The motion was seconded by Councilman Timm and carried with Councilman Adams voting no.

12-1124 Discuss Outdoor Lighting Standards:
Community Development Director Marc Kurbansade briefed the Council on the matter. Following discussion, no formal Council action was taken.

12-1162 Adjourn to Executive Session pursuant to the provisions of the Texas Government Code, Section 551.074: To discuss the annual evaluation of the City Manager.

Consider any action necessary as a result of Executive Session regarding the annual evaluation of the City Manager.
Mayor Felix stated this item would be tabled until the next meeting.

There being no further business, Mayor Pro Tem Patterson moved to adjourn. The motion was seconded by Councilman Ronnau and passed unanimously. The meeting adjourned at 8:56 p.m.

ATTEST:

_____
CITY SECRETARY

APPROVED:

_____
MAYOR

Sachse City Hall
3815 Sachse Road Building
B
Sachse, Texas 75048

Legislation Details (With Text)

File #:	12-1177	**Version:**	1	**Name:**	Consider approval of the minutes of the October 17, 2012 special meeting.
Type:	Agenda Item			**Status:**	Agenda Ready
File created:	10/24/2012			**In control:**	City Council
On agenda:	11/5/2012			**Final action:**	
Title:	Consider approval of the minutes of the October 17, 2012 special meeting. Executive Summary Minutes of the recent special Council meeting.				
Sponsors:					
Indexes:					
Code sections:					
Attachments:	CC. Min. 10.17.12.pdf				

Date	Ver.	Action By	Action	Result

Title
Consider approval of the minutes of the October 17, 2012 special meeting.

Executive Summary
Minutes of the recent special Council meeting.

Background
Minutes of the special meeting on October 17, 2012

Policy Considerations
None.

Budgetary Considerations
None.

Staff Recommendations
City Council consider approval of the minutes of the October 17, 2012 special meeting, as a Consent Agenda Item.

powered by Legistar™

SPECIAL MEETING

OF THE

CITY COUNCIL OF THE CITY OF SACHSE

OCTOBER 17, 2012

The City Council of the City of Sachse held a Special Meeting on Wednesday October 17, 2012, at 7:30 p.m. at the Sachse City Hall after proper notice. The roll of the duly constituted City Council members was called which members are as follows, to wit:

Mayor Mike Felix
Mayor Pro Tem Jared Patterson
Councilman Bill Adams
Councilwoman Pat McMillan
Councilman Brett Franks
Councilman Todd Ronnau
Councilman Mark Timm

and all were present.

Staff present: City Secretary Terry Smith.

1. Open Special Meeting: Mayor Felix opened the special meeting at 7:30 p.m.

2. Agenda Items:

12-1159 Conduct interviews for board and commission applicants:
Interviews were conducted with Diana Smith, Bill Alexander, David Hock, Druce Reiley, Eric Dumois, Cyndi Mitchell, James Schmulbach, Charles Ross, Dia Rhoden, and Warren Becker.

3. Adjournment:
There being no further business, Mayor Felix adjourned the meeting at 8:54 p.m.

APPROVED:

ATTEST:

_____
MAYOR

_____
CITY SECRETARY

Sachse City Hall
3815 Sachse Road Building
B
Sachse, Texas 75048

Legislation Details (With Text)

File #:	12-1186	**Version:**	1	**Name:**	Consider approval of the minutes of the October 29, 2012, special meeting.
Type:	Agenda Item			**Status:**	Agenda Ready
File created:	10/30/2012			**In control:**	City Council
On agenda:	11/5/2012			**Final action:**	
Title:	Consider approval of the minutes of the October 29, 2012, special meeting. Executive Summary Minutes of the most recent meeting.				
Sponsors:					
Indexes:					
Code sections:					
Attachments:	CC.Min. 10.29.12.pdf				

Date	Ver.	Action By	Action	Result

Title
Consider approval of the minutes of the October 29, 2012, special meeting.

Executive Summary
Minutes of the most recent meeting.

Background
Minutes of the special meeting on October 29, 2012.

Policy Considerations
None.

Budgetary Considerations
None.

Staff Recommendations
Approval of the minutes of the October 29, 2012, special meeting, as a Consent Agenda Item.

powered by Legistar™

SPECIAL MEETING

OF THE

CITY COUNCIL OF THE CITY OF SACHSE

OCTOBER 29, 2012

The City Council of the City of Sachse held a Special Meeting on Monday, October 29, 2012, at 6:30 p.m. at the Sachse City Hall after proper notice. The roll of the duly constituted City Council members was called which members are as follows, to wit:

Mayor Mike Felix
Mayor Pro Tem Jared Patterson
Councilman Bill Adams
Councilwoman Pat McMillan
Councilman Brett Franks
Councilman Todd Ronnau
Councilman Mark Timm

and all were present except Councilwoman McMillan and Councilman Ronnau.

Staff present: City Secretary Terry Smith.

1. Open Special Meeting: Mayor Felix opened the special meeting at 6:30 p.m.

2. Agenda Items:

12-1159 Conduct interviews for board and commission applicants:
Interviews were conducted with Michele Briggs, Patrece King, Debbie Langham, Mark Caldwell, Spencer Hauenstein, Stephen Curtis, Mary Saathoff, and Darrell Lensch.

3. Adjournment:
There being no further business, Mayor Felix adjourned the meeting at 8:00 p.m.

APPROVED:

ATTEST:

_____
MAYOR

_____
CITY SECRETARY

Sachse City Hall
3815 Sachse Road Building
B
Sachse, Texas 75048

Legislation Details (With Text)

File #:	12-1179	**Version:**	1	**Name:**	CD - AMBULANCE SERVICE FEES RELOCATED
Type:	Agenda Item			**Status:**	Agenda Ready
File created:	10/26/2012			**In control:**	City Council
On agenda:	11/5/2012			**Final action:**	

Title: Consider approval of an Ordinance of the City Council of the City of Sachse, Texas, amending the Code of Ordinances by amending Chapter 5, Section 5-5 titled “Ambulance Service Fees”; by providing for the ambulance service fees to be adopted through City Council Resolution in the Master Fee Schedule; providing a repealing clause; providing a savings clause; providing a severability clause; providing for a penalty of fine not to exceed the sum of two thousand dollars ($2,000.00) for each offense; and providing an effective date.

Executive Summary
The proposed ordinance would modify the Ambulance Service Fees section by removing the fees and relocating the fees to the Master Fee Schedule. No changes in Ambulance Service Fees are being proposed; the fees are simply being relocated. The Master Fee Schedule will be considered by City Council together with this amendment as a separate but companion item.

Sponsors:

Indexes:

Code sections:

Attachments: CD - AMBULANCE SERVICE FEES RELOCATED - DRAFT ORD.pdf

Date	Ver.	Action By	Action	Result

Title

Consider approval of an Ordinance of the City Council of the City of Sachse, Texas, amending the Code of Ordinances by amending Chapter 5, Section 5-5 titled “Ambulance Service Fees”; by providing for the ambulance service fees to be adopted through City Council Resolution in the Master Fee Schedule; providing a repealing clause; providing a savings clause; providing a severability clause; providing for a penalty of fine not to exceed the sum of two thousand dollars ($2,000.00) for each offense; and providing an effective date.

Executive Summary

The proposed ordinance would modify the Ambulance Service Fees section by removing the fees and relocating the fees to the Master Fee Schedule. No changes in Ambulance Service Fees are being proposed; the fees are simply being relocated. The Master Fee Schedule will be considered by City Council together with this amendment as a separate but companion item.

Background

City Staff is in the process of removing fees from the Code of Ordinances in an effort to relocate them to one collective location-the Master Fee Schedule. This amendment will

powered by Legistar™

simply relocate the Ambulance Service Fees currently located in Chapter 5, Section 5-5 of the Code of Ordinances to the Master Fee Schedule. The fees that are being removed will be replaced subsequent to this item as a separate companion item on the Agenda.

Policy Considerations
None.

Budgetary Considerations
None.

Staff Recommendations
Staff recommends approval of an Ordinance of the City Council of the City of Sachse, Texas, amending the Code of Ordinances by amending Chapter 5, Section 5-5 titled "Ambulance Service Fees"; by providing for the ambulance service fees to be adopted through City Council Resolution in the Master Fee Schedule; providing a repealing clause; providing a savings clause; providing a severability clause; providing for a penalty of fine not to exceed the sum of two thousand dollars ($2,000.00) for each offense; and providing an effective date, as a Consent Agenda Item.

ORDINANCE NO. _____

AN ORDINANCE OF THE COUNCIL OF THE CITY OF SACHSE, TEXAS, AMENDING THE CODE OF ORDINANCES BY AMENDING CHAPTER 5, SECTION 5-5 TITLED "AMBULANCE SERVICE FEES"; BY PROVIDING FOR THE AMBULANCE SERVICE FEES TO BE ADOPTED THROUGH CITY COUNCIL RESOLUTION IN THE MASTER FEE SCHEDULE; PROVIDING A REPEALING CLAUSE; PROVIDING A SAVINGS CLAUSE; PROVIDING A SEVERABILITY CLAUSE; PROVIDING FOR A PENALTY OF FINE NOT TO EXCEED THE SUM OF TWO THOUSAND DOLLARS ($2,000.00) FOR EACH OFFENSE; AND PROVIDING AN EFFECTIVE DATE.

WHEREAS, the City has established a Master fee schedule which is adopted through City council resolution; and

WHEREAS, the City desires to remove the Ambulance Service fees from Chapter 5 and place those fees within the City's Master Fee Schedule.

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SACHSE, TEXAS:

SECTION 1. That Chapter 5, Section 5-5 titled "Ambulance Service Fees" of the City of Sachse Code of Ordinances be, and the same is hereby amended to read as follows:

"Chapter 5

FIRE PROTECTION

. . .

Sec. 5-5. Ambulance Service Fees.

A. The rates and charges for ambulance services shall be administered in accordance with the City of Sachse Master Fee Schedule established by resolution of the City Council.

B. *Definitions.* For purposes of this section and the Master Fee Schedule, the following definitions shall apply, unless clearly indicated to the contrary.

Advanced life support ("ALS") intervention means a procedure beyond the scope of an EMT-Basic as defined in the National EMS Education and Practice Blueprint.

Advanced Life Support, Level 1 ("ALS1") means the provision of an assessment by an advanced life support provider or supplier or the provision of one or more advanced life support interventions when medically necessary.

Advanced Life Support, Level 2 ("ALS2") means the administration of three (3) or more different medications and the provision of at least one of the following advanced life support procedures when medically necessary: manual defibrillation/cardioversion, endotracheal intubation, central venous line, cardiac pacing, chest decompression, surgical airway, or intraosseous line.

Advanced life support provider/supplier means a provider trained to the level of an EMT-Intermediate or Paramedic as defined in the National EMS Education and Practice Blueprint.

Basic life support ("BLS") means the establishment of a peripheral intravenous (IV) line when medically necessary."

SECTION 2. That all provisions of the Ordinances of the City of Sachse, Texas, in conflict with the provisions of this ordinance be, and the same are hereby, repealed, and all other provisions of the Ordinances of the City not in conflict with the provisions of this ordinance shall remain in full force and effect.

SECTION 3. An offense committed before the effective date of this ordinance is governed by prior law and the provisions of the Code of Ordinances, as amended, in effect when the offense was committed and the former law is continued in effect for this purpose.

SECTION 4. That should any word, sentence, paragraph, subdivision, clause, phrase or section of this ordinance, be adjudged or held to be void or unconstitutional, the same shall not affect the validity of the remaining portions of said ordinance, which shall remain in full force and effect.

SECTION 5. That any person violating any of the provisions or terms of this Ordinance shall be subject to the same penalty as provided for in the Code of Ordinances of the City of Sachse as heretofore amended and upon conviction shall be punished by a fine not to exceed the sum of Two Thousand Dollars ($2,000.00) for each offense.

SECTION 6. This ordinance shall take effect immediately from and after its passage and the publication of the caption, as the law and charter in such cases provides.

PASSED AND APPROVED by the City Council of the City of Sachse, Texas this the _____ day of _____, 2012.

APPROVED:

_____
Mike Felix
Mayor

DULY ENROLLED:

_____
Terry Smith
City Secretary

APPROVED AS TO FORM:

_____
Peter G. Smith
City Attorney
(JJG/10-26-12/57941)

Legislation Details (With Text)

File #:	12-1156	**Version:**	1	**Name:**	Resolution for book donations
Type:	Agenda Item			**Status:**	Agenda Ready
File created:	10/4/2012			**In control:**	City Council
On agenda:	11/5/2012			**Final action:**	
Title:	Consider a resolution of the City Council of the City of Sachse, Texas, authorizing the Sachse Public Library ("Library") to donate surplus books and circulation materials to the Friends of the Library, a not -for-profit organization, that will resell the goods as a fundraiser for the Library and authorizing the Library Manager to determine the books and circulation material that are surplus property and can be donated; and providing an effective date.				
Sponsors:					
Indexes:					
Code sections:					
Attachments:	Microsoft Word - 51SACHSE Resolution Re Public Library Donating Books to Friends of Library54521 Microsoft PowerPoint - Council November 5, 2012				

Date	Ver.	Action By	Action	Result

Title

Consider a resolution of the City Council of the City of Sachse, Texas, authorizing the Sachse Public Library ("Library") to donate surplus books and circulation materials to the Friends of the Library, a not-for-profit organization, that will resell the goods as a fundraiser for the Library and authorizing the Library Manager to determine the books and circulation material that are surplus property and can be donated; and providing an effective date.

Executive Summary

Library Manager is requesting consideration and approval of the resolution supporting donations of surplus materials from the Library collection and citizen donations to the Friends of the Sachse Public Library, a nonprofit organization.

Background

The Friends of the Sachse Public Library is a not for profit organization that participates in fundraising activities exclusively for the purpose of supporting the Sachse Public Library. The Friends have an ongoing book sale throughout the year and an annual fall book sale in which donated materials and selected materials from the Library are sold. All materials that are sold from the library collection have been withdrawn following the Library's Collection Development policy. Donations are viewed by library staff to determine if they are appropriate for the collection before donating to the Friends. The Friends made over $2300 in book sales with the combined August book sale and the ongoing book sale. Proceeds from the book sales are used to support purchases for Summer Reading performers and new books for the collection. The book sale is the Friends primary fundraiser.

The resolution under consideration will establish the process by which surplus materials are found to be surplus and will authorize the disposal of those surplus materials by donating them to the Friends of the Library.

Policy Considerations
n/a

Budgetary Considerations
n/a

Staff Recommendations
Approve a resolution of the City Council of the City of Sachse, Texas, authorizing the Sachse Public Library ("Library") to donate surplus books and circulation materials to the Friends of the Library, a not-for-profit organization, that will resell the goods as a fundraiser for the Library and authorizing the Library Manager to determine the books and circulation material that are surplus property and can be donated; and providing an effective date, as a Consent Agenda item.

RESOLUTION NO. _____

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF SACHSE, TEXAS, AUTHORIZING THE SACHSE PUBLIC LIBRARY ("LIBRARY") TO DONATE SURPLUS BOOKS AND CIRCULATION MATERIALS TO THE FRIENDS OF THE SACHSE PUBLIC LIBRARY, A NOT-FOR-PROFIT ORGANIZATION, THAT WILL RESELL THE GOODS AS A FUNDRAISER FOR THE LIBRARY AND AUTHORIZING THE LIBRARY MANAGER TO DETERMINE THE BOOKS AND CIRCULATION MATERIALS THAT ARE SURPLUS PROPERTY AND CAN BE DONATED; AND PROVIDING AN EFFECTIVE DATE.

WHEREAS, the City of Sachse, Texas, desires to provide effective and efficient library services to meet the needs of its citizens; and

WHEREAS, the Library is in possession of surplus property; and

WHEREAS, the Library periodically receives donations of books and other materials that cannot be used as circulation materials in the Library and periodically removes books and other materials from circulation because the items are out-of-date, duplicate copies, superseded by new editions, worn or no longer in demand by the public (the "Property"); and

WHEREAS, the Friends of the Sachse Public Library is a not-for-profit organization that collects books and other items and resells them to raise money for the Library; and

WHEREAS, the City Council has investigated and determined that the Property should be discarded and/or disposed of as surplus property; and

WHEREAS, the City Council is of the opinion and finds that the Library Manager shall determine which books and circulation materials are surplus property for donation to Friends of the Sachse Public Library to resell as a fundraiser for the Library.

WHEREAS, the City Council has further investigated and determined that the cost of storing the Property exceeds the fair value of the Property; and

WHEREAS, the City Council has further investigated and determined that donating the Property to Friends of the Sachse Public Library serves a legitimate public purpose; and

WHEREAS, the City Council has further investigated and determined that it is more cost effective to donate the Property to the Friends of the Sachse Public Library to sell and raise money for the Library than for the Library to dispose of the Property in accordance with the provisions of the City's Purchasing Manual purchasing guidelines; and

WHEREAS, the City Council has further investigated and determined that sufficient controls are in place to ensure that the public purpose will be carried out; and

WHEREAS, the City Council has determined that the City's Purchasing Manual does not authorize the Library to donate the Property to the Friends of the Sachse Public Library and that this Resolution is needed to provide such authorization;

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF SACHSE, TEXAS, THAT:

SECTION 1. The Library Manager shall be authorized to determine which books and circulation materials are surplus property and shall donate same to the Friends of the Sachse Public Library to resell for purposes of fundraising for the Library.

SECTION 2. This Resolution shall take effect immediately from and after its passage, and it is accordingly so resolved.

DULY RESOLVED AND ADOPTED by the City Council of the City of Sachse, Texas, this the _____ day of _____, 2012.

CITY OF SACHSE, TEXAS

_____

Mike Felix, Mayor

ATTEST:

_____

Terry Smith, City Secretary

BOOK DONATIONS RESOLUTION

CITY COUNCIL MEETING

November 5, 2012

City of Sachse Public Library

Highlights of Book Donation Resolution

- The Friends of the Sachse Public Library is a not for profit organization that participates in fundraising activities exclusively for the purpose of supporting the Sachse Public Library.

- The Friends of the Sachse Public Library have an ongoing book sale throughout the year and an annual fall book sale in which donated materials and selected materials from the Library are sold.

Highlights of Book Donation Resolution

- All materials that are sold from the library collection have been withdrawn following the Library's Collection Development policy.

- Donations are viewed by library staff to determine if they are appropriate for the collection before donating to the Friends.

Book Donation Resolution

- Staff recommends council approval of the resolution

Sachse City Hall
3815 Sachse Road Building
B
Sachse, Texas 75048

Legislation Details (With Text)

File #:	12-1121	**Version:**	2	**Name:**	Preliminary Plat for Woodbridge Phase 18
Type:	Agenda Item			**Status:**	Agenda Ready
File created:	9/20/2012			**In control:**	City Council
On agenda:	11/5/2012			**Final action:**	

Title: Consider the application of Woodbridge Properties, L.L.C. for approval of a Preliminary Plat for Woodbridge Phase 18, being 93 single-family residential lots and one (1) Homeowner's Association (HOA) lot, on approximately 40.632 acres, on the north side of Ranch Road, at the northwest corner of Edgeglen Trail and Glenhaven Drive.

Executive Summary
The applicant is requesting to subdivide an approximately 40.632-acre tract to consist of 93 single-family residential lots and one (1) HOA lot, located on the north side of Ranch Road, at the northwest corner of Edgeglen Trail and Glenhaven Drive.

Sponsors:

Indexes:

Code sections:

Attachments:
ATTACHMENT 1 - Presentation - CC - WB Ph 18.pdf
ATTACHMENT 2 - Plat Map.pdf
ATTACHMENT 3 - Aerial.pdf
ATTACHMENT 4 - Zoning.pdf
ATTACHMENT 5 - Plat Appilcation.pdf

Date	Ver.	Action By	Action	Result

Title
Consider the application of Woodbridge Properties, L.L.C. for approval of a Preliminary Plat for Woodbridge Phase 18, being 93 single-family residential lots and one (1) Homeowner's Association (HOA) lot, on approximately 40.632 acres, on the north side of Ranch Road, at the northwest corner of Edgeglen Trail and Glenhaven Drive.

Executive Summary
The applicant is requesting to subdivide an approximately 40.632-acre tract to consist of 93 single-family residential lots and one (1) HOA lot, located on the north side of Ranch Road, at the northwest corner of Edgeglen Trail and Glenhaven Drive.

Background
The 40.632-acre (approximately 1,769,933 square feet) subject property is located on the north side of Ranch Road, at the northwest corner of Edgeglen Trail and Glenhaven Drive. The applicant is proposing to subdivide the subject property into 93 single-family residential lots and one (1) HOA lot.

The proposed subdivision will have primary access from Edgeglen Trail, a minor residential

street that connects to the existing Woodbridge Phase 14 subdivision. An existing 10-foot concrete paved alley that is adjacent to Lot 10, Block G of Woodbridge Phase 14 shall be expanded to 24 feet in width to accommodate a temporary emergency vehicular secondary point of access into Woodbridge Phase 18 subdivision. The temporary access shall continue through Lot 21, Block G of Woodbridge Phase 18, which will connect the alley to Elkhart Drive with a 24-foot wide paved access drive.

The subject property is zoned Planned Development District (PD-19), which was approved by City Council on January 21, 2002. PD-19 is intended for single-family dwellings on minimum 7,200, 8,400, and 10,000 square foot lots. The PD also permits additional uses such as private or public recreation facilities, religious institutions, day care facilities, parks, fire stations and public safety facilities. The applicant has indicated that all of the residential lots in this subdivision will be subject to the R-8.4 and R-10.0 Single Family zoning standards as indicated in Sections 2.06 and 2.07 of the PD Ordinance.

Policy Considerations
The Planning and Zoning Commission voted unanimously to approve of the proposed preliminary plat at the October 8, 2012 meeting.

The proposed Preliminary Plat meets the standards of the City of Sachse Code of Ordinances and of Ordinance No. 1916, a Planned Development (PD-19) and is designed in accordance with the zoning of the property.

Budgetary Considerations
N/A

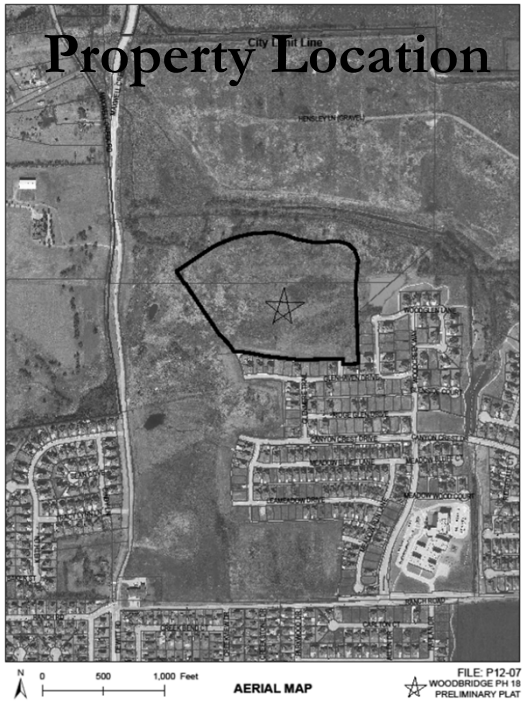
Staff Recommendations
Staff recommends approval of the Preliminary Plat for Woodbridge Phase 18 as a Consent Agenda Item.

Woodbridge Phase 18 Subdivision Preliminary Plat

November 5, 2012

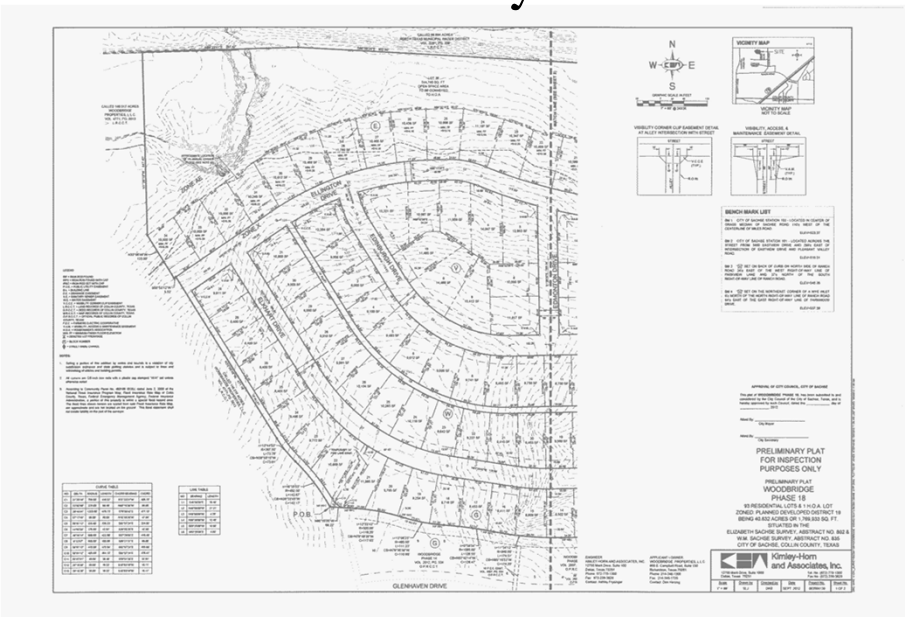
Request

- Consider the application of Woodbridge Properties, L.L.C. for approval of a Preliminary Plat for Woodbridge Phase 18, being 93 single-family residential lots and one (1) Homeowner's Association (HOA) lot on approximately 40.632 acres, on the north side of Ranch Road, at the northwest corner of Edgeglen Trail and Glenhaven Drive.

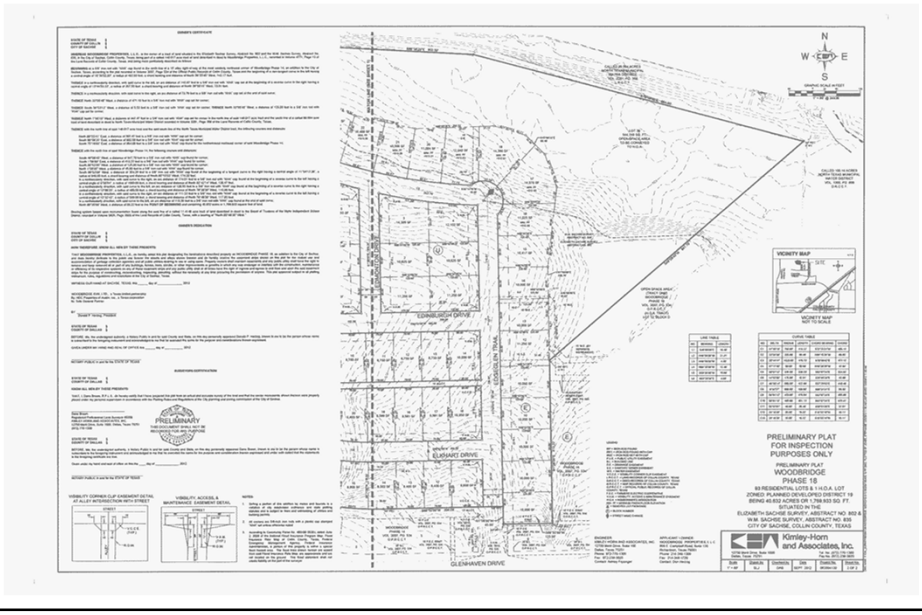

Property Location
City Limit Line
HENSLEY LN (GRAVEL)
N
0
500
1,000 Feet
AERIAL MAP
FILE: P12-07
WOODBRIDGE PH 18
PRELIMINARY PLAT

Zoning
City Limit Line
HENSLEY LN (GRAVEL)
AG
I - 2
PD-19
ORD. No. 1916
1-21-02
R-10
AG
PD-13
PD-21
I - 1
R-3
N
0
500
1,000 Feet
ZONING MAP
FILE: P12-07
WOODBRIDGE PH 18
PRELIMINARY PLAT

Preliminary Plat



Preliminary Plat



Considerations

- Section 212.010 of the Texas Local Government Code states that a municipality shall approve a plat if it conforms to:
  - The general plan of the municipality (Comprehensive Plan),
  - The municipality's plan for current and future streets,
  - The municipality's plan for public utility facilities,
  - The municipality's rules governing the platting and subdivision of land (Subdivision Ordinance), and
  - The municipality's zoning of the property (including planned development standards).

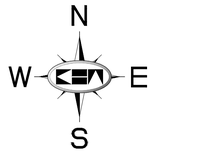
Considerations

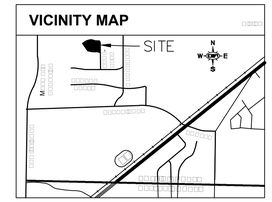
- The Planning and Zoning Commission voted unanimously to approve of the proposed preliminary plat at the October 8, 2012 meeting.

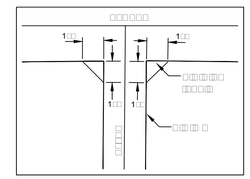
Staff Recommendation

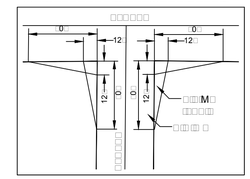
- Staff recommends approval of the Preliminary Plat.

Questions









BENCH MARK LIST

APPROVAL OF CITY COUNCIL, CITY OF SACHSE

Kimley-Horn and Associates, Inc.

OWNER'S CERTIFICATE

STATE OF TEXAS §
COUNTY OF COLLIN §
CITY OF SACHSE §

WHEREAS WOODBRIDGE PROPERTIES, L.L.C.

BEGINNING

THENCE

THENCE in a northwesterly direction, with said curve to the right, an arc distance of 73.78 feet to a 5/8" iron rod with "KHA" cap set at the end of said curve;

THENCE North 33°06'48" West, a distance of 471.16 feet to a 5/8" iron rod with "KHA" cap set for corner;

THENCE

THENCE

THENCE

North 88°23'41" East, a distance of 397.47 feet to a 5/8" iron rod with "KHA" cap set for corner;
South 86°58'25" East, a distance of 902.50 feet to a 5/8" iron rod with "KHA" cap set for corner;
South 75°18'02" East, a distance of 864.00 feet to a 5/8" iron rod with "KHA" cap found for the northernmost northeast corner of said Woodbridge Phase 14;

THENCE

South 49°08'45" West, a distance of 847.79 feet to a 5/8" iron rod with "KHA" cap found for corner;
South 1°08'00" East, a distance of 413.22 feet to a 5/8" iron rod with "KHA" cap found for corner;
South 88°52'00" West, a distance of 125.00 feet to a 5/8" iron rod with "KHA" cap found for corner;
North 1°08'00" West, a distance of 45.00 feet to a 5/8" iron rod with "KHA" cap found for corner;
88°52'00"
radius of 840.00 feet, a chord bearing and distance of North 85°10'53" West, 174.20 feet;
central angle of 6°56'54", a radius of 1060.00 feet, a chord bearing and distance of North 82°42'14" West, 128.47 feet;
central angle of 13°08'23", a radius of 485.00 feet, a chord bearing and distance of North 79°36'30" West, 110.98 feet;
central angle of 13°32'42", a radius of 500.00 feet, a chord bearing and distance of North 79°48'39" West, 117.93 feet;
In a northwesterly direction, with said curve to the left, an arc distance of 118.20 feet to a 5/8" iron rod with "KHA" cap found at the end of said curve;
North 86°35'00" West, a distance of 66.22 feet to the **POINT OF BEGINNING**

District, recorded in Volume 5825, Page 2869 of the Land Records of Collin County, Texas, with a bearing of "North 00°48'35" West."

OWNER'S DEDICATION

STATE OF TEXAS §
COUNTY OF COLLIN §
CITY OF SACHSE §

NOW THEREFORE, KNOW ALL MEN BY THESE PRESENTS:

WOODBRIDGE PROPERTIES, L.L.C.

2012

STATE OF TEXAS §
COUNTY OF DALLAS §

2012

SURVEYORS CERTIFICATION

STATE OF TEXAS §
COUNTY OF DALLAS §

KNOW ALL MEN BY THESE PRESENTS:

33
1000
2:1
9:2-3:20

STATE OF TEXAS §
COUNTY OF DALLAS §

2012

2012

NOTES:

1

2

3 01 0:30 2009 2012 0-1300

1	31°20'18"	0.00	10.22	S72°33'21"W	0.12
2	23°02'08"	22.00	90	N80°15'26"W	9
3	20°44'41"	132.00	9.3	S79°06'42"E	12
	57°17'45"	0.00	0.00	N18°29'20"W	9
	58°01'12"	33.00	339.23	S62°07'24"E	32.92
	14°02'56"	1.00	2.91	S26°05'20"E	2.0
	48°28'14"	00.00	22.99	S57°20'55"E	10
	9°32'57"	00.00	100.00	S86°21'31"E	99
9	58°01'12"	0.00	9	S62°07'24"E	
10	58°01'12"	00.00	91.13	S62°07'24"E	0.1
11	55°07'01"	0.00	3	S59°01'30"E	3.01
12	29°16'39"	20.00	10.22	S18°03'19"W	10.11
13	29°16'39"	20.00	10.22	S18°03'19"W	10.11

93
19
0 32 1 9.933
02
3

Kimley-Horn and Associates, Inc.

12 0 1000
2:1
9:2 0-1300
9:2-3:20

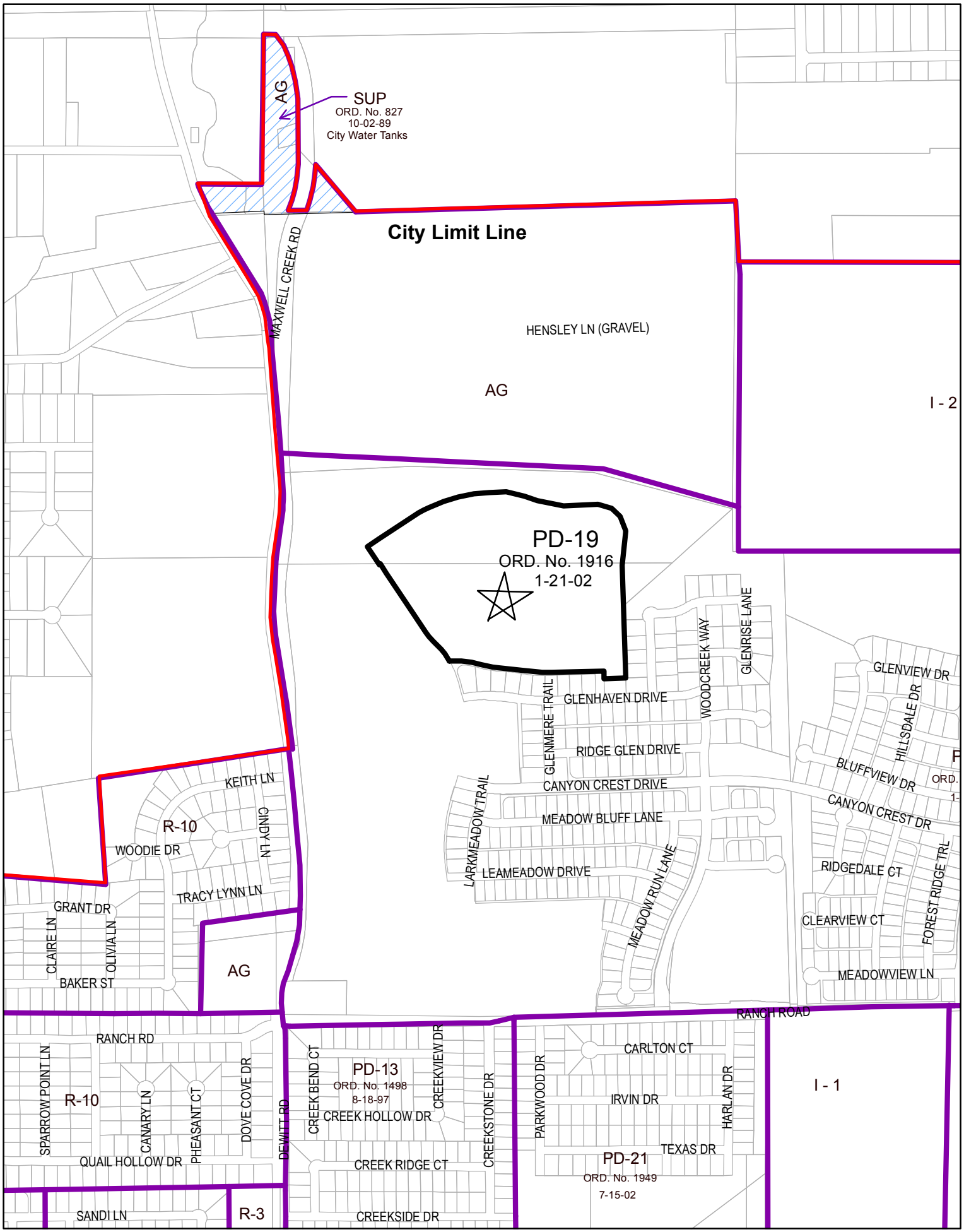
1" 0		d	2012	0:3 130
				2 2

N

0 500 1,000 Feet

AERIAL MAP

FILE: P12-07
WOODBRIDGE PH 18
PRELIMINARY PLAT



N

0 500 1,000 Feet

ZONING MAP

FILE: P12-07
WOODBRIDGE PH 18
PRELIMINARY PLAT

City of Sachse

SEP 1 4 2012

SUBDIVISION PLAT APPLICATION

Type of Plat Request: (Please Check Applicable Category)
X Preliminary Plat
____ Final Plat
____ Replat
____ Final / Minor Plat (Administrative Process)
____ Amending Plat (Administrative Process)

Engineer / Surveyor

Name: Kimley-Horn & Associates, Inc. Contact: Ashley Frysinger, P.E.
Address: 12750 Merit Drive, Suite 1000
City: Dallas State TX Zip 75251
Phone: 972-770-1300 Fax 972-239-3820 Email: ashley.frysinger@kimley-horn.com

Property Owner

Name: Woodbridge XVIII, LTD. Contact: Don Herzog
Address: 800 E. Campbell Road, Suite 130
City: Richardson State TX Zip 75081
Phone: 214-348-1300 Fax 214-348-1720 Email: don@herzogdevelopment.com

Proposed Subdivision Name: Woodbridge Phase 18

Survey Name: Elizabeth Sachse Abstract Number: 802

Existing Zoning: Planned Development District 19

Note: Please provide an as-built or building improvement survey on a separate sheet if the property is developed.

Is an existing subdivision or part of a subdivision being replatted? Yes____ No X

If yes, provide the following:

Subdivision Name: _____

Number of lots within original subdivision: _____

Date Filed: _____ Volume: _____ Page: _____

I am authorized to make application for a subdivision on behalf of the property owner.

Ashley Frysinger
Signature

09/11/12
Date

The above-mentioned is authorized to make application on my behalf and I am the owner of the subject property.

Donald R. Herzog
Signature

9/11/12
Date

Applicants (or representatives) are expected to be present at all public hearings concerning this application to justify or explain their request and to answer questions posed by the Planning Commission and the City Council.

Sachse City Hall
3815 Sachse Road Building
B
Sachse, Texas 75048

Legislation Details (With Text)

File #:	12-1185	**Version:**	1	**Name:**	4th Quarter Budget and Investment Report
Type:	Agenda Item			**Status:**	Agenda Ready
File created:	10/30/2012			**In control:**	City Council
On agenda:	11/5/2012			**Final action:**	

Title: Consider acceptance of the Quarterly Budget and Investment Reports for the quarter ending September 30, 2012.

Executive Summary
Cash on hand at 9/30/2012 was $25,158,721 in all funds, of this amount $20,158,721 was available for investing. The remaining $5,000,000 is held in a non-interest bearing analysis account per contract with American National Bank. The average interest/yield on all investments was .28% and investment earnings totaled $14,389.

General Fund revenues are at 99% of budget and expenditures are at 95% as of 9/30/12. Utility Fund revenues are at 99% of budget and expenditures are at 94%. The year-to-date budget status for both funds is typical for this point in the fiscal year.

Sponsors:

Indexes:

Code sections:

Attachments: 4TH QTR Budget and Investment Report

Date	Ver.	Action By	Action	Result

Title
Consider acceptance of the Quarterly Budget and Investment Reports for the quarter ending September 30, 2012.

Executive Summary
Cash on hand at 9/30/2012 was $25,158,721 in all funds, of this amount $20,158,721 was available for investing. The remaining $5,000,000 is held in a non-interest bearing analysis account per contract with American National Bank. The average interest/yield on all investments was .28% and investment earnings totaled $14,389.

General Fund revenues are at 99% of budget and expenditures are at 95% as of 9/30/12. Utility Fund revenues are at 99% of budget and expenditures are at 94%. The year-to-date budget status for both funds is typical for this point in the fiscal year.

Background
Every quarter, the Finance Department releases a report on the City's finances. The report is divided into two sections: Budget and Investments. The Budget section generally includes revenues and expenditures for the General, Utility, Debt Service, Capital Projects, and Special Revenue Funds, as well as a summary of Capital Project expenditures. The

powered by Legistar™

Investment Report provides investment fund details for the Money Market, Investment Pool, and Certificate of Deposit accounts.

It is the strategy of the City to maintain a high percentage of idle funds invested in safe, secure and liquid investment securities and pooled investment types in accordance with the Public Funds Investment Act and City policy.

Policy Considerations
The Public Funds Investment ACT (PFIA) requires that the Investment Officers prepare and submit quarterly a written report of investment transactions for all funds covered by the Investment Policy.

Budgetary Consideratons
There are no significant aberrations in the budget that would require budget amendments at this time.

Staff Recommendations
Staff recommends acceptance of the Quarterly Budget and Investment Reports for the quarter ending September 30, 2012 as a Consent Agenda item.

Finance Department

TO: BILLY GEORGE, CITY MANAGER

FROM: FINANCE DEPARTMENT

SUBJ: QUARTERLY BUDGET REPORTS FOR 4TH QUARTER ENDING SEPTEMBER 30, 2012

DATE: OCTOBER 29, 2012

CC: MAYOR AND COUNCIL

The enclosed Quarterly Budget Report is for the 4th quarter of the fiscal year ending September 30, 2012. The 4th quarter coincides with the end of the City's fiscal year; this quarterly report is an interim report. Closing and audit adjustments will result in differences in budgetary results and fund allocations of investment activity. This period ending 9-30-2012 represents 100% of the City's fiscal year (12 months).

Cash and Investment Position: The City is in excellent cash position. Cash on hand at 9-30-2012 was $25,158,721 in all funds.

Budget: General Fund revenues are at 99% of the budget for the end of the 4th Quarter.

At September 30th, the budgeted expenditures are as follows for operations.

Fund	*Budget*	*YTD*	*% Used*
General Fund	$ 10,917,630	$ 10,371,606	95%
Utility Fund	7,016,129	6,601,751	94%
Debt Service	2,810,061	2,807,385	100%
Special Revenue	62,041	99,899	161%
Total	$ 20,805,861	$ 19,880,641	

Property Taxes: Year-to-date the City has posted $9,487,750 in property tax revenue or about 99% of the City property tax revenue budget of $9,539,879. The General Fund revenue collections yielded $7,369,557 and the Debt Service Fund collected $2,118,193.

Municipal Court: The Court processed 295 cases for September, 847 for the quarter ended September 30, and a year-to-date total of 3382 cases processed. The total fines collected and settled to the City treasury as of September 30 totaled $337,205.

Building Permits: The City has issued 135 Single Family residential permits since October 1, 2011, with permitting/licenses revenue of $342,490 or about 137% of budget. The average construction value of permitted homes is $295,070.

Other General Fund Revenues: As of the report date, the City has collected $2,847,387 in other general fund revenues or approximately 91% of budget totals. 4th Quarter Franchise Fees have not posted as of the report date.

Interest Earnings: The City's funds are fully invested and secure. The City has earned $14,389 on its invested funds for the fourth quarter of Fiscal Year 2011-2012. City-wide invested funds at September 30, 2012 were $25,158,721 (including EDC's portfolio). The average Quarterly Yield was .28%.

Capital Projects: As of September 30th, YTD Capital Projects expenditures totaled $9,415,327.

Combined Budget

Summary

Quarter Ending

September 30, 2012

Quarterly Report to City Council
100% of Budget Year
(Unaudited)

CITY OF SACHSE
COMBINED BUDGET SUMMARY
AND CHANGES IN FUND BALANCE RESERVES
YTD Actual September 30, 2012
Fiscal Year 2011-2012

	General Fund	Water Sewer Fund	Debt Service Fund	Special Revenue Fund [2]	Total
Revenues	10,896,639	7,064,313	2,869,598	106,082	$ 20,936,632
Expenses	10,371,606	6,601,751	2,807,385	99,899	$ 19,880,641
Net Over (under)	525,033	462,562	62,213	6,183	1,055,991

	Capital Projects Fund [1]
Revenues	843,803
Expenses	9,415,327
Net Over (under)	(8,571,524)

Footnotes:

[1] Capital Project Fund Revenues include funds received in current fiscal year; expenses include all expenditures made in the current year from funds(bonds, impact fees, special sales tax) accumulated in previous periods, as well as the current fiscal year.

[2] Special Revenue Funds: Court Technology, Court Security, Emergency Medcial Training, Police Training, AT&T Cable Channel; Park Development Fees and Street Impact Fees.

General Fund

Quarter Ending

September 30, 2012

Quarterly Report to City Council
100% of Budget Year
(Unaudited)

City of Sachse
General Fund Summary
As of September 30, 2012

	Actual 2009-2010	Actual 2010 - 2011	Budget 2011-2012	YTD 9/30/2012	Budget %
REVENUES:					
Property Taxes	$ 6,222,249	$ 6,493,314	$ 7,424,670	$ 7,369,557	99%
Permits/Licenses	378,365	280,855	324,400	415,514	128%
Franchises	1,083,810	1,541,154	1,463,163	1,114,661	76%
Sales Tax	665,926	752,635	828,394	795,822	96%
Charges for Services	396,102	397,838	436,850	561,645	129%
Court Fines	284,327	295,574	250,000	337,205	135%
Interest and Rents	17,142	19,652	22,975	19,366	84%
Other Governments	210,445	145,560	140,697	134,545	96%
Operating TransfersIn	915,609	922,719	895,317	895,080	100%
Miscellaneous	15,501	8,290	(730,000)	(746,758)	102%
TOTAL REVENUES	**$ 10,189,476**	**$ 10,857,591**	**$ 11,056,466**	**$ 10,896,639**	99%
EXPENDITURES:					
City Manager	$ 373,275	$ 400,607	$ 315,743	$ 300,142	95%
City Secretary	146,575	143,495	155,443	154,246	99%
Human Resources	223,956	218,992	244,145	203,852	83%
Finance	487,986	493,470	478,648	449,671	94%
Court	145,372	164,365	161,989	160,637	99%
Parks	653,122	704,507	724,257	728,855	101%
Seniors	89,036	105,689	102,018	99,644	98%
Library	304,561	283,470	281,048	264,869	94%
Community Development	625,773	636,365	593,853	568,520	96%
Streets	954,172	879,410	914,809	780,702	85%
Engineering	158,214	166,468	253,075	204,241	81%
Facility Maintenance	252,892	264,758	297,906	269,604	90%
Police	2,870,539	3,017,402	2,982,277	2,914,998	98%
Animal Control	257,337	131,374	131,902	132,015	100%
Fire and EMS	1,865,500	2,109,382	2,098,024	2,058,077	98%
Non-Departmental	1,026,246	1,072,760	1,190,102	1,081,534	91%
TOTAL EXPENDITURES	**$ 10,434,554**	**$ 10,792,515**	**$ 10,925,239**	**$ 10,371,606**	95%

City of Sachse
General Fund
As of September 30, 2012

Schedule of Revenues by Source					
Category Descriptions	**ACTUAL 2009-2010**	**ACTUAL 2010-2011**	**BUDGET 2011-2012**	**YTD 9/30/2012**	**Budget %**
Property Taxes	$ 6,222,249	$ 6,493,314	$ 7,424,670	$ 7,369,557	99%
Sales Tax	646,361	735,478	799,394	786,230	98%
Franchise Tax	1,083,810	1,541,154	1,463,163	1,114,661	76%
Licenses and Permits	378,365	280,855	324,400	415,514	128%
Other Fees	396,102	397,838	436,850	561,645	129%
Court Fines	284,327	295,574	250,000	337,205	135%
Interest	17,142	19,652	22,975	19,366	84%
Transfers	915,609	922,719	895,317	895,080	100%
Miscellaneous	245,512	171,006	(560,303)	(602,621)	108%
Total Revenue	$ 10,189,476	$ 10,857,591	$ 11,056,466	$ 10,896,639	99%

Expenditures Category Summary					
Category Descriptions	**ACTUAL 2009-2010**	**ACTUAL 2010-2011**	**BUDGET 2011-2012**	**YTD 9/30/2012**	**Budget %**
Personnel Costs	$ 7,853,488	$ 8,172,845	$ 8,182,589	$ 7,919,157	97%
Supplies and Materials	1,045,623	1,269,566	1,137,840	1,111,761	98%
Maintenance & Repairs	473,366	389,301	441,704	333,246	75%
Contract Services	903,431	958,511	1,151,439	992,556	86%
Capital Outlay	152,345	2,292	11,667	14,886	128%
Contingencies/Transfers	6,300	-	-	-	-
Total Expenditures	$ 10,434,554	$ 10,792,515	$ 10,925,239	$ 10,371,606	95%

Water and Sewer Fund

Quarter Ending

September 30, 2012

Quarterly Report to City Council
100% of Budget Year
(Unaudited)

City of Sachse
Utility Fund Summary
As of September 30, 2012

	Actual 2009-2010	Actual 2010-2011	Budget 2011-2012	YTD 9/30/2012	Budget %
Operating Revenues					
Water Sales	$ 3,094,499	$ 3,799,382	$ 4,090,625	$ 3,953,818	97%
Sewer Service	2,027,354	2,240,823	2,734,753	2,815,428	103%
Fees and Charges	148,958	128,405	152,500	175,492	115%
Interest Income	22,281	3,010	8,000	3,374	42%
Impact Fees	162,477	83,943	152,500	115,221	76%
Other Governments and Sources	-	-	-	-	0%
Other Financing Sources	223,382	-	-	-	0%
Miscellaneous	3,143	3,069	5,000	981	20%
Total Revenues	**$ 5,682,094**	**$ 6,258,633**	**$ 7,143,378**	**$ 7,064,313**	**99%**
Operating Expenditures					
Water Operations	$ 2,237,322	$ 3,087,189	$ 2,775,944	$ 2,919,226	105%
Sewer Operations	2,158,987	2,183,652	2,442,522	2,254,493	92%
Utility Billing Services	248,936	271,625	255,527	233,028	91%
Meter Reading	97,254	105,572	115,554	111,467	96%
Sub-total Operating Expenditures	4,742,498	5,648,037	5,589,547	5,518,214	99%
Non-operating Expenditures:					
Debt Payments	56,327	52,002	143,992	138,642	96%
Transfers Out - Charge back	2,013,563	2,010,678	839,256	839,016	100%
Transfers Out - Franchise	-	-	-	-	0%
Capital Outlays	3,598	-	443,334	105,879	24%
Non-Operating Expenditures	2,073,488	2,062,680	1,426,582	1,083,537	76%
Total Expenditures	**$ 6,815,986**	**$ 7,710,718**	**$ 7,016,129**	**$ 6,601,751**	**94%**

Debt Service Fund

Quarter Ending

September 30, 2012

Quarterly Report to City Council
100% of Budget Year
(Unaudited)

City of Sachse

Debt Service Fund Summary

As of September 30, 2012

	Actual 2009-2010	Actual 2010-2011	Budget 2011-2012	YTD 9/30/2012	Budget %
REVENUES:					
Property Taxes	$ 2,306,135	$ 2,092,378	$ 2,115,209	$ 2,118,193	100%
Interest Income	2,677	934	500	1,405	281%
Intragovernmental Transfers	1,363,615	667,000	750,000	750,000	100%
Other Financing Sources	-		-	-	-
TOTAL REVENUES	**$ 3,672,427**	**$ 2,760,312**	**$ 2,865,709**	**$ 2,869,598**	**100%**
EXPENDITURES					
Principal	$ 730,000	$ 865,000	$ 945,000	$ 945,000	100%
Interest	1,918,371	1,891,786	1,861,561	1,861,561	100%
Agent Fees	573	573	3,500	823	24%
TOTAL EXPENDITURES	**$ 2,648,944**	**$ 2,757,360**	**$ 2,810,061**	**$ 2,807,385**	**100%**

Capital Project Funds

Quarter Ending

September 30, 2012

Quarterly Report to City Council
100% of Budget Year
(Unaudited)

City of Sachse

GENERAL CAPITAL PROJECT FUND SUMMARY [1]

As of September 30, 2012

	Actual 2009-2010	Actual 2010-2011	YTD 9/30/2012
REVENUES:			
40050 Sales Tax From 380 Agreements	$ 1,216,191	$ 1,737,691	$ -
45000 Interest Income	263,359	45,114	32,022
46070 CDBG Street Improvement Grant	(16,316)	(792)	-
46110 TXDOT Grant	-	-	-
46130 Other Agency Grants	180,000	180,000	-
47080 Miscellaneous Receipt	-	180	-
48000 Operating Transfers In-General Fund			750,000
48080 Operating Transfers In - Special Revenue	-	111,769	61,781
49010 Debt Issuance	-	-	-
TOTAL REVENUES	**$ 1,643,234**	**$ 2,073,962**	**$ 843,803**
EXPENDITURES:			
VEHICLES AND EQUIPMENT:			
54000 Vehicles	810,279	27,532	86,470
54010 Machinery	-	8,528	-
54050 Tools and Equipment	-	25,931	-
CAPITAL PROJECTS:			
54231 CIP - Bunkerhill Road	512,143	834,391	6,822,039
54242 CIP - 5th Street Widening	1,840,882	30,680	334
54250 CIP - Murphy Road to Hwy 78	984,654	(22,554)	-
54270 CIP - Dewitt Road	597,239	(8,506)	-
54283 Street CIP - Merritt Road	136,061	-	1,059,215
54390 CIP - SH 78 and 5th St Intersection	432,464	16,039	3,840
54580 Hwy 78 Widening Project	26	-	-
54590 CIP Road and Impact Fee Study			58,938
55550 Misc Projects	19,838	-	7,500
55551 Holly Crest Pavement			4,320
55552 Merritt Rd Realignment			51,186
55553 Haverhill Paving Improvementst			21,000
55555 Ingram/ Blackburn			295,833
55600 7th Street Paving			428
55080 Operating Transfer Out - Debt Service	1,363,615	667,000	750,000
56170 Financing Costs	-	-	-
MUNICIPAL CENTER:			
54510 City Hall Facility	3,519,047	304,762	1,804
54520 Public Safety Facility	4,720,453	91,183	(86)
54530 Senior Citizen Facility	396,165	166,579	(21)
54540 Library Renovations	186,684	30,141	-
54550 Municipal Campus Features	1,602,417	1,437,323	224,296
54560 Salmon Park Improvements	962,923	14,845	10,313
54570 Bryan Street Improvements	143,573	-	-
54581 Software/Hardware Upgrades	239,442	100,641	2,050
54610 City Hall Furnishings	378,302	46,807	-
54620 Public Safety Furnishings	388,349	6,700	-
54630 Senior Center Furnishings	11,484	42,682	-
54640 Library Furnishings	-	29,692	-
54650 Sachse/Miles Signalization			15,870
TOTAL EXPENDITURES	**$ 19,246,040**	**$ 3,850,396**	**$ 9,415,327**

[1] *This Fund is a summary fund of all General Capital Project Funds with sources of funds from Bond Issuance, Developers, and RCC sales tax*

Special Revenue

Quarter Ending

September 30, 2012

Quarterly Report to City Council
100% of Budget Year
(Unaudited)

City of Sachse
Special Revenue Fund Summary
As of September 30, 2012

		Actual 2009-2010	Actual 2010-2011	Budget 2011-2012	YTD 9/30/2012	Budget %
REVENUES:						
43000	Time Pay Fee (TP-L1)	$ -	$ 401	$ -	$ 468	
43010	Court Security Fees	6,121	5,977	7,500	7,962	106%
43020	Court Technology Fees	8,122	7,976	8,000	10,614	133%
43040	Court - Child Safety Program Fees	3,711	5,879	4,000	9,412	235%
43060	State Traffic Fee	-	-	200	-	-
44050	Police Training Fees	2,611	2,518	3,000	-	-
41460	Emergency Medical Training Fees	-	4,843	-	-	-
44030	Street Impact Fees	83,756	49,528	75,000	54,069	72%
41480	PEG Fees	4,975	5,788	5,000	9,459	1.89
46030	Senior Program Donations				124	
46130	Other Agency Grants	-	41,140	-	10,402	-
46120	Misc Grants and Donations	1,115	21,862	-	1,062	-
45000	Interest	6,782	2,241	4,060	2,510	62%
	TOTAL REVENUES	**$ 117,192**	**$ 148,153**	**$ 106,760**	**$ 106,082**	**99%**
EXPENDITURES:						
51510	City Manager - Small Tools and Equipment	$ -	$ 1,486	$ -	$ -	-
54101	Energy Efficiency Conservation	-	47,689	-	10,693	-
54123	Security Control Improvements	-	20,211	-	-	-
51510	Municipal Court - Court Security	423	231	2,500	925	
54022	Municipal Court - Court Technology Improvements		1,259	-	5,593	-
54050	Municipal Court - Tools and Equipment over $50	2,660	2,660	3,000	-	-
53090	Court Fees Due to State Comptroller	-		-	-	-
51810	Police Training	1,660	2,960	1,500	-	-
51810	Fire Training	-		-	-	-
54190	Fire and Ambulance	-	3,482		1,534	
51880	EMS Training	-	1,675	-	-	-
54470	Park Development Fee Projects	23,092	2,125	-		-
51000	Library Utilities-Electric	2,611	191	-	135	-
51020	Library Utilities - Water	-	95	-	65	-
51030	Library Utilities-Communications	-	2,136	-	-	-
51250	Library Programs	-	798	-	1,302	-
51510	Library Small Tools and Equipment	-	7,980	-	3,604	
54282	CIP - Maxwell Creek Road (DA)	6,000	14,000	-	14,000	-
55001	Operating Transfer Out-Impact Fees(CIP Study)	-	-	20,041	58,938	2.94
55050	Operating Transfer Out - Park Development Fees	-	-	35,000	2,843	0.08
51510	Animal Control Center Programs	361	537	-	266	-
	TOTAL EXPENDITURES	**$ 36,807**	**$ 109,514**	**$ 62,041**	**$ 99,899**	**161%**

Investment Report

Quarter Ending

September 30, 2012

Quarterly Report to City Council
100% of Budget Year
(Unaudited)

Finance Department

Memo

To: **Billy George, City Manager**

From: Teresa Savage, Finance Manager TS

CC: Mayor and City Council

Date: October 29, 2012

Re: **Investment Report for period ending September 30, 2012**

Attached is the Quarterly Investment Report for the quarter ending September 30, 2012 of the fiscal year 2011-2012. This report complies with the requirements of the City's Investment Policy and the Public Funds Investment Act as amended. For the period ending September 30, 2012, the City's portfolio[1] consisted of the following investments:

Portfolio at Quarter Close:	Rate at 9/30/2012	% Total	Total Investment
Money Market Account –ANB	.25%	62.6%	$15,761,875.42
Money Market Account(EDC)-ANB	.07%	2.7%	683,353.57
Investment Pool – Tex Pool	.1501%	2.0%	502,262.38
CD—Comerica Bank	.50%	4.0%	1,004,596.88
CD—Comerica Bank	.52%	4.8%	1,203,555.95
CD—Comerica Bank	.54%	4.0%	1,003,077.26
Analysis Checking-ANB	0.00%	19.9%	5,000,000.00
Total Invested City Funds:		100.0%	**$25,158,721.46**

The City does not carry any security instrument (investment type) on its books that is traded on the open market; therefore all investments are listed at 100% of market value. Interest earnings on all certificate of deposit accounts are accreted quarterly or at maturity. All Funds on deposit with American National Bank, Comerica Bank, and Investment Pools are fully secured and safeguarded. **Total investment interest earned for the quarter ending September 30, 2012 was $14,389.12.**

Citywide cash and investments for the period ending September 30, 2012 was $25,158,721.46. Of this amount, $3,837,791.40 is for the Sachse EDC; also included is $5,000,000.00 which is held in a non-interest bearing analysis account. It is the strategy of the Finance Department to maintain a high percentage of its idle funds invested in safe and secure investment securities and pooled investment types in accordance with the Public Funds Investment Act.

87.24% of the City's current portfolio has liquidity of 30 days or less, which is more than adequate for daily operations. The City investments are liquid and have same day access. The City's investment and cash management strategy will be to maintain operational and capital needs in money market accounts and liquid asset pools. The City's funds are swept into the above accounts and withdrawn as needed for operational cash flow requirements.

The average interest rate/yield on the City's investments for the period was .28%. The Texpool Prime Fund interest rate was .1757% and the Texpool interest rate was .1501% at September 30, 2012. The 90 day T-bill rate was .07% with the 180 day T-bill at .12%.

[1] Includes the Sachse Economic Development Corporation

QUARTERLY INVESTMENT REPORT

For the Quarter Ended

September 30, 2012

Prepared by
Valley View Consulting, L.L.C.

The investment portfolio of the City is in compliance with the Public Funds Investment Act and the Investment Policy and strategies.

Jeri L. Rainey
Director of Finance

Susie C. Sy
Finance Manager

Disclaimer: These reports were compiled using information provided by the City of Sachse. No procedures were performed to test the accuracy or completeness of this information. The market values included in these reports were obtained by Valley View Consulting, L.L.C. from sources believed to be accurate and represent proprietary valuation. Due to market fluctuations these levels are not necessarily reflective of current liquidation values. Yield calculations are not determined using standard performance formulas, are not representative of total return yields and do not account for investment advisor fees.

City of Sachse, Texas
Annual Comparison of Portfolio Performance

The Federal Open Market Committee (FOMC) maintained the Fed Funds target range between 0.00% and 0.25% (actual Fed Funds are trading +/-15bps). During the year, the FOMC completed the last phases of Quantitative Easing Two and initiated Operation twist. At the September 2012 meeting, they announced the third Quantitative Easing program (QE3) and extended the exceptionally low rate target through mid-2015. The European credit crisis persisted the entire year with continued flight to quality pressure on the US securities markets. Domestic employment growth remained slightly positive, but stayed below desired levels. The US stock market primarily performed well despite a late-spring correction. Financial institution deposits and laddering targeted cash flows provided the best interest earnings opportunity.

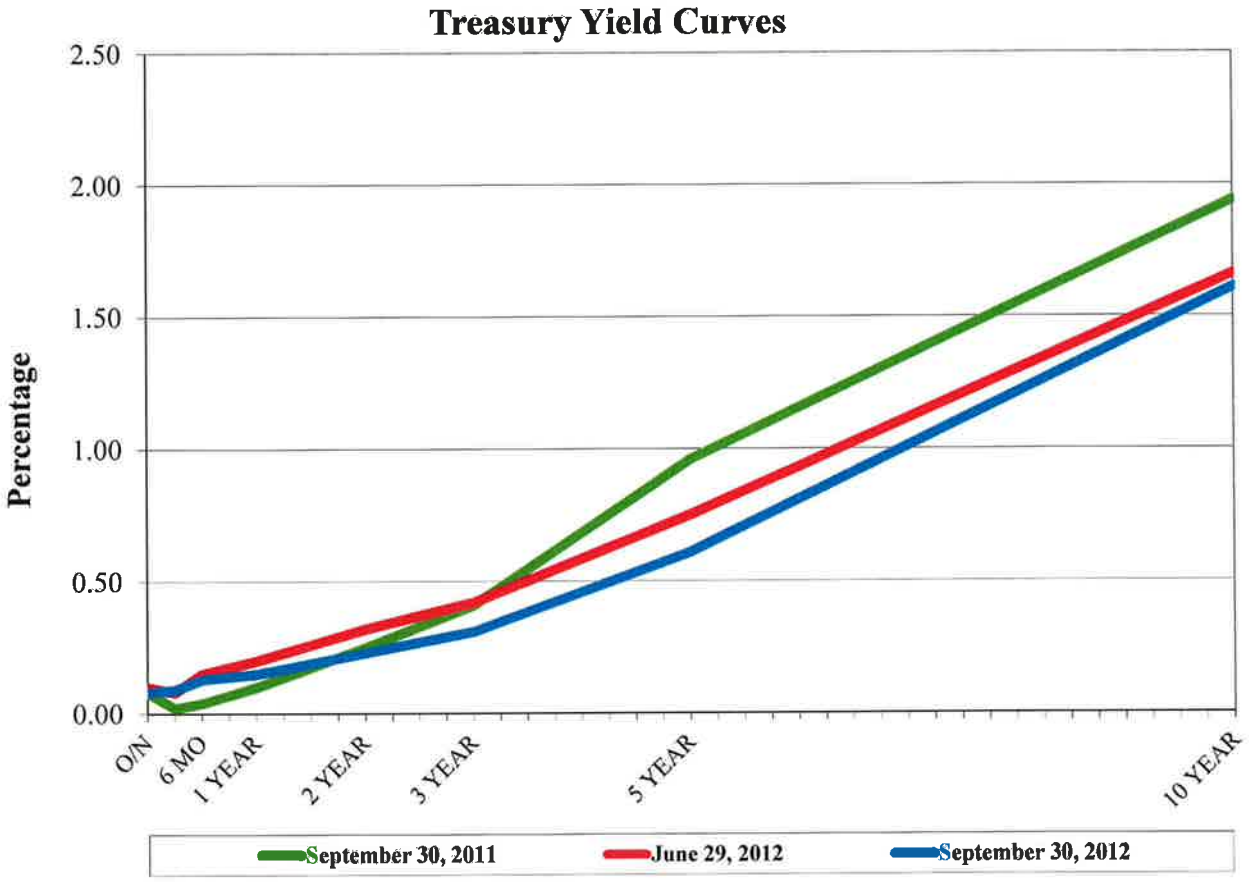
FYE Results by Investment Category:

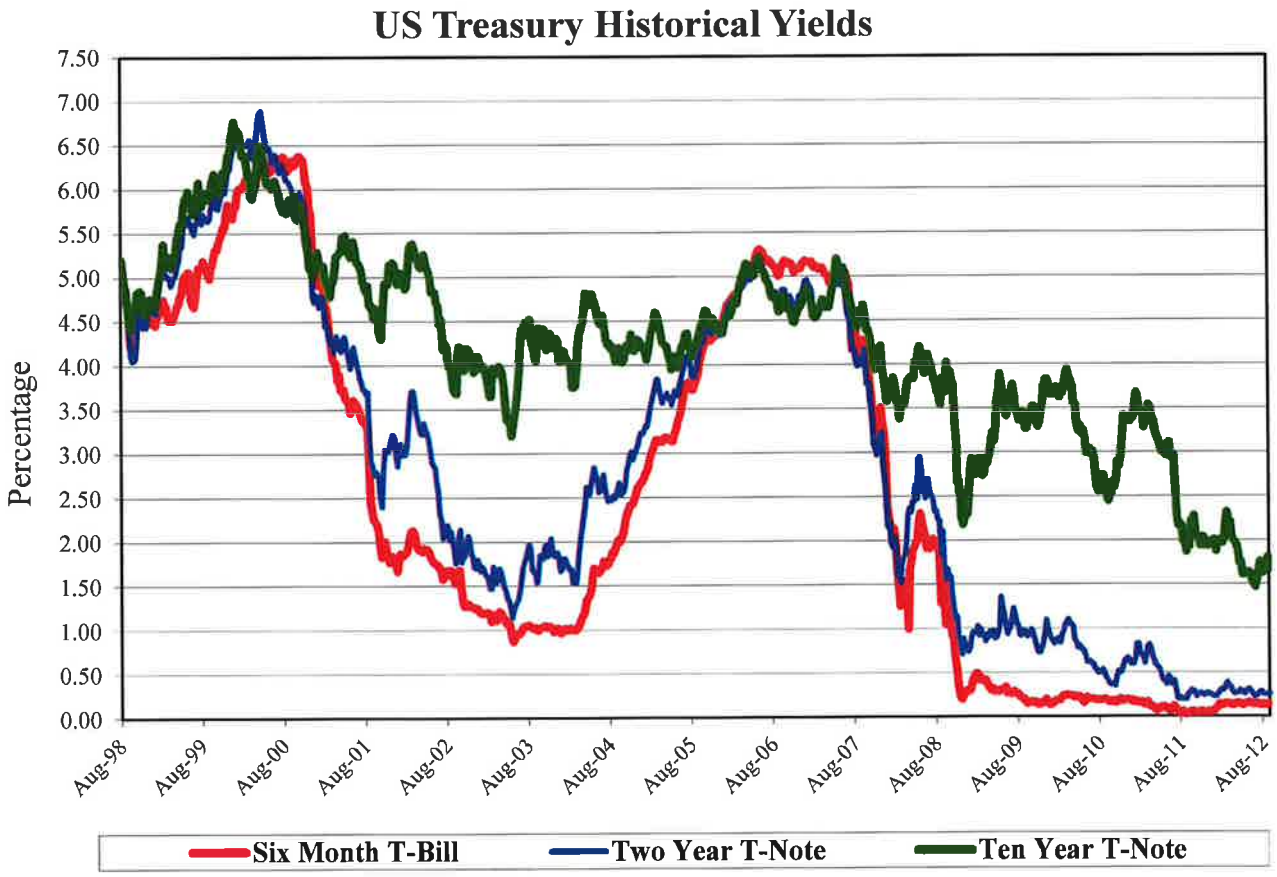
	September 30, 2012			September 30, 2011		
Asset Type	**Ave. Yield**	**Book Value**	**Market Value**	**Ave. Yield**	**Book Value**	**Market Value**
Bank/Pool	0.25%	$ 21,947,491	$ 21,947,491	0.25%	$ 44,485,104	$ 44,485,104
CDs / Securities	0.52%	3,211,230	3,211,230	0.00%	$ -	$ -
Totals		**$ 25,158,721**	**$ 25,158,721**		**$ 44,485,104**	**$ 44,485,104**

	2012	**2011**	**Change**
Total Portfolio	0.27%	0.29%	-0.02%
Rolling Three Mo. Treas. Yield	0.07%	0.08%	-0.01%
Rolling Six Mo. Treas. Yield	0.11%	0.15%	-0.04%
Quarterly TexPool Yield	0.12%	0.12%	0.00%

(1) Average Yield calculated using quarter end report yields and adjusted book values and does not reflect a total return analysis or account for advisory fees.

(2) Fiscal Year-to-Date Average Yields calculated using quarter end report yields and adjusted book values and does not reflect a total return analysis or account for advisory fees.


Treasury Yield Curves
Percentage
2.50
2.00
1.50
1.00
0.50
0.00
O/N
6 MO
1 YEAR
2 YEAR
3 YEAR
5 YEAR
10 YEAR
September 30, 2011
June 29, 2012
September 30, 2012


US Treasury Historical Yields
Percentage
7.50
7.00
6.50
6.00
5.50
5.00
4.50
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
Aug-98
Aug-99
Aug-00
Aug-01
Aug-02
Aug-03
Aug-04
Aug-05
Aug-06
Aug-07
Aug-08
Aug-09
Aug-10
Aug-11
Aug-12
Six Month T-Bill
Two Year T-Note
Ten Year T-Note

S&P 500
1,750
1,500
1,250
1,000
750
500
250
0
Aug-95
Aug-96
Aug-97
Aug-98
Aug-99
Aug-00
Aug-01
Aug-02
Aug-03
Aug-04
Aug-05
Aug-06
Aug-07
Aug-08
Aug-09
Aug-10
Aug-11
Aug-12

Strategy Summary:

The Federal Open Market Committee (FOMC) maintained the Fed Funds target range between 0.00% and 0.25% (actual Fed Funds are trading +/-15bps). At the September meeting, they announced the third Quantitative Easing program (QE3) and extended the exceptionally low rate target through mid-2015. The European credit crisis lingers with key component resolution potentially converging later this fall. Chinese growth trends are lower and worrisome. Domestic employment growth is modest and inconsistent. Overall economic activity continues below expectation. The US stock market remains a bright spot. Financial institution deposits and laddering targeted cash flows still provide the best interest earnings opportunity.

Quarter End Results by Investment Category:

		September 30, 2012		June 30, 2012	
Asset Type	**Ave. Yield**	**Book Value**	**Market Value**	**Book Value**	**Market Value**
Bank/Pool	0.25%	$ 21,947,491	$ 21,947,491	$ 24,211,178	$ 24,211,178
CDs / Securities	0.52%	3,211,230	3,211,230	4,209,497	4,209,497
Totals		**$ 25,158,721**	**$ 25,158,721**	**$ 28,420,675**	**$ 28,420,675**

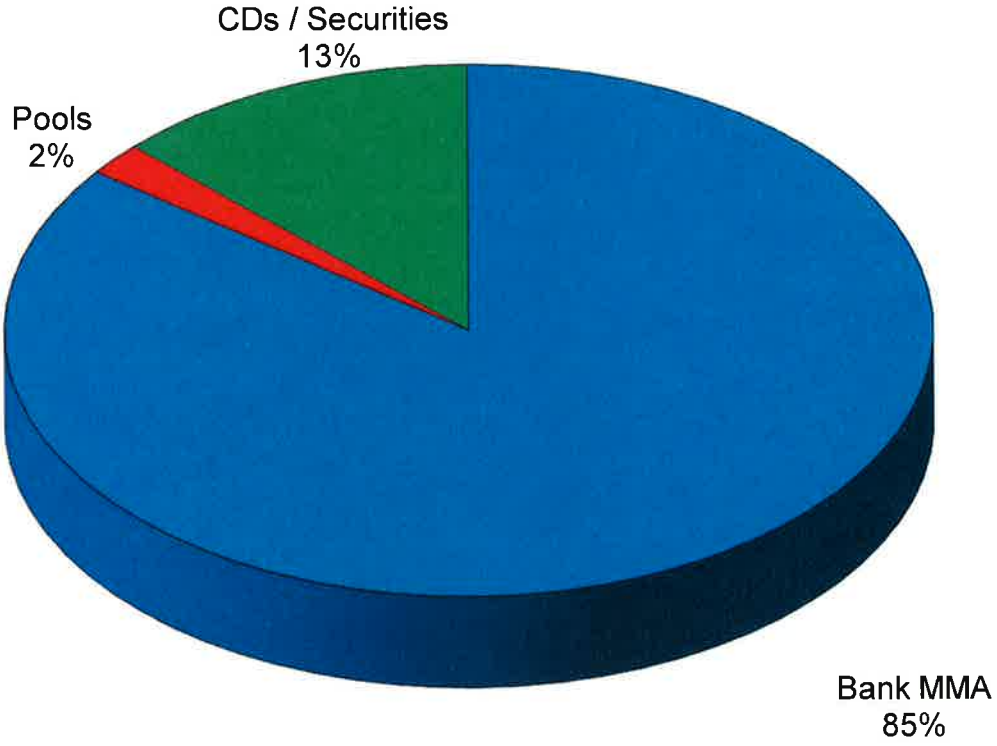
Average Yield (1)		Fiscal Year-to-Date Average Yield (2)	
Total Portfolio	0.28%	Total Portfolio	0.27%
Rolling Three Mo. Treas. Yield	0.10%	Rolling Three Mo. Treas. Yield	0.07%
Rolling Six Mo. Treas. Yield	0.14%	Rolling Six Mo. Treas. Yield	0.11%
		Average Quarterly TexPool Yield	0.12%

	City	EDC
Interest Earnings QTR	$ 11,290	$ 3,099
Interest Earnings YTD	$ 58,234	$ 15,666

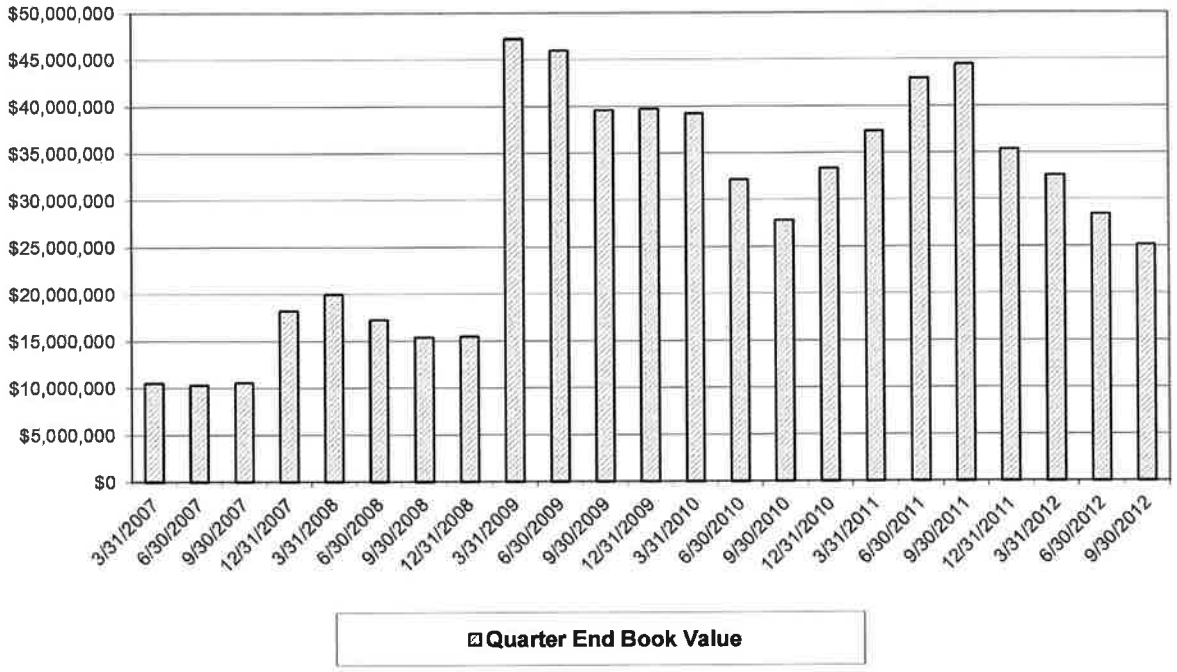
(1) Average Yield calculated using quarter end report yields and adjusted book values and does not reflect a total return analysis or account for advisory fees.

(2) Fiscal Year-to-Date Average Yields calculated using quarter end report yields and adjusted book values and does not reflect a total return analysis or account for advisory fees.

Portfolio Composition



Total Portfolio



Detail of Investment Holdings
September 30, 2012

Description	Rating	Coupon/ Discount	Maturity Date	Settlement Date	Original Face\ Par Value	Book Value	Market Price	Market Value	Life (days)	Yield
Bank MMA		0.25%	10/01/2012	09/30/2012	$ 21,445,229	$ 21,445,229	1.00	$ 21,445,229	1	0.25%
TexPool	AAAm	0.16%	10/01/2012	09/30/2012	502,262	502,262	1.00	502,262	1	0.16%
Comerica CD		0.50%	11/01/2012	11/01/2011	1,000,000	1,004,597	100.00	1,004,597	32	0.50%
Comerica CD		0.52%	03/06/2013	03/06/2012	1,200,000	1,203,556	100.00	1,203,556	157	0.52%
Comerica CD		0.54%	06/06/2013	03/06/2012	1,000,000	1,003,077	100.00	1,003,077	249	0.54%
					$ 25,147,491	**$ 25,158,721**		**$ 25,158,721**	**20**	**0.28%**
									(1)	(2)

(1) Weighted average life - For purposes of calculating weighted average life, pool investments are assumed to have a one day maturity.

(2) Weighted average yield to maturity - The weighted average yield to maturity is based on adjusted book value, realized and unrealized gains/losses and investment advisory fees are not considered.

Book Value Comparison

Description	Coupon/ Discount	Maturity Date	June 30, 2012 Original Face/ Par Value	June 30, 2012 Book Value	Purchases/ Accretions	Amortizations/ Sales/Maturities	September 30, 2012 Original Face/ Par Value	September 30, 2012 Book Value
Bank MMA	0.25%	10/01/2012	$ 22,934,357	$ 22,934,357	$ -	$ (1,489,128)	$ 21,445,229	$ 21,445,229
TexPool	0.16%	10/01/2012	1,276,822	1,276,822		(774,559)	502,262	502,262
Comerica CD	0.37%	08/01/2012	1,000,000	1,002,465		(1,002,465)		
Comerica CD	0.50%	11/01/2012	1,000,000	1,003,332	1,264		1,000,000	1,004,597
Comerica CD	0.52%	03/06/2013	1,200,000	1,201,983	1,573		1,200,000	1,203,556
Comerica CD	0.54%	06/06/2013	1,000,000	1,001,716	1,361		1,000,000	1,003,077
TOTAL			**$ 28,411,178**	**$ 28,420,675**	**$ 4,198**	**$ (3,266,152)**	**$ 25,147,491**	**$ 25,158,721**

Market Value Comparison

Description	Coupon/ Discount	June 30, 2012 Original Face/ Par Value	June 30, 2012 Market Price	June 30, 2012 Market Value	Qtr to Qtr Change	September 30, 2012 Original Face/ Par Value	September 30, 2012 Market Price	September 30, 2012 Market Value
Bank MMA	0.25%	$ 22,934,357	1.00	$ 22,934,357	$ (1,489,128)	$ 21,445,229	1.00	$ 21,445,229
TexPool	0.16%	1,276,822	1.00	1,276,822	(774,559)	502,262	1.00	502,262
Comerica CD	0.37%	1,000,000	100.00	1,002,465	(1,002,465)			
Comerica CD	0.50%	1,000,000	100.00	1,003,332	1,264	1,000,000	100.00	1,004,597
Comerica CD	0.52%	1,200,000	100.00	1,201,983	1,573	1,200,000	100.00	1,203,556
Comerica CD	0.54%	1,000,000	100.00	1,001,716	1,361	1,000,000	100.00	1,003,077
TOTAL		**$ 28,411,178**		**$ 28,420,675**	**$ (3,261,954)**	**$ 25,147,491**		**$ 25,158,721**

Allocation

September 30, 2012

Book & Market Value	Total	GO I&S	General Fund	W/S Impact Fee	Utility Fund	W/S Restricted	W/S Operations	Special Sales Tax
Bank MMA	$ 21,445,229	$ 637,225	$ 3,568,825	$ 1,379,133	$ -	$ 163,617	$ 684,117	$ 2,605,381
Texpool	502,262		136,616					
11/01/2012	1,004,597							
03/06/2013	1,203,556							
06/06/2013	1,003,077							
Totals	**$ 25,158,721**	**$ 637,225**	**$ 3,705,441**	**$ 1,379,133**	**$ -**	**$ 163,617**	**$ 684,117**	**$ 2,605,381**

Allocation

September 30, 2012

Book & Market Value	Capital Project	2009 GO Bonds	Restricted Street Impact	Restricted Park Development	Restricted General	Street Impact	GBTP TIF Zone #1	EDC
Bank MMA	$ 1,372,312	$ 8,059,599	$ 937,382	$ 2,209	$ 385,983	$ -	$ 18,287	$ 1,631,158
Texpool		365,647						
11/01/2012		1,004,597						
03/06/2013								1,203,556
06/06/2013								1,003,077
Totals	**$ 1,372,312**	**$ 9,429,843**	**$ 937,382**	**$ 2,209**	**$ 385,983**	**$ -**	**$ 18,287**	**$ 3,837,791**

Allocation

June 30, 2012

Book & Market Value	Total	GO I&S	General Fund	W/S Impact Fee	Utility Fund	W/S Restricted	W/S Operations	Special Sales Tax	Capital Project
Bank MMA	$ 22,934,357	$ 1,552,371	$ 4,746,315	$ 1,361,033	$ -	$ 132,572	$ (54,884)	$ 2,903,722	$ 1,371,904
Texpool	1,276,822		34,123	17,074	34,148			34,148	
08/01/2012	1,002,465								
11/01/2012	1,003,332								
03/06/2013	1,201,983								
06/06/2013	1,001,716								
Totals	**$ 28,420,675**	**$ 1,552,371**	**$ 4,780,438**	**$ 1,378,107**	**$ 34,148**	**$ 132,572**	**$ (54,884)**	**$ 2,937,870**	**$ 1,371,904**

Allocation

June 30, 2012

Book & Market Value	2009 GO Bonds	Restricted Street Impact	Restricted Park Development	Restricted General	Street Impact	GBTP TIF Zone #1	EDC
Bank MMA	$ 7,970,142	$ 962,596	$ 5,051	$ 380,004	$ -	$ 14,000	$ 1,589,532
Texpool	1,140,254				17,074		
08/01/2012	1,002,465						
11/01/2012	1,003,332						
03/06/2013							1,201,983
06/06/2013							1,001,716
Totals	**$ 11,116,194**	**$ 962,596**	**$ 5,051**	**$ 380,004**	**$ 17,074**	**$ 14,000**	**$ 3,793,231**

Portfolio Summary
City of Sachse, TX
September 30, 2012

Safety - Investment Type

Investment Type	Book Value	Percent
Money Market Account*	$ 21,445,230	85.2%
Investment Pools	502,262	2.0%
CD's	3,211,230	12.8%
Total*	$ 25,158,722	100%

Liquidity - Investments by Maturity Date

Under 30 days	$ 21,947,492	87%
30 - 90 days	1,004,597	4%
90 - 180 days	1,203,556	5%
180 - 365 days	1,003,077	4%
365 - 511 days	0	0%
Total Principal Invested	$ 25,158,722	100%

Portfolio Yield

Portfolio	Fiscal YTD Interest	Int Earned this QTR	(FYTD) Percent of total
Debt Service	$ 2,109	$ 390	2.85%
General Fund	$ 4,173	329	5.65%
Water and Sewer Fund	$ 4,518	1,046	6.11%
Capital Project Fund	$ 44,031	8,682	59.58%
Special Revenue Fund	$ 3,388	840	4.58%
TIF Zone	$ 14	1	0.02%
Sachse EDC	$ 15,666	3,099	21.20%
Total Portfolios	$ 73,900	$ 14,389	100.00%

Portfolio Balance

Portfolio	Beginning Balances	Ending Book Balances	Change
Debt Service	$ 1,552,371	$ 637,225	$ (915,146)
General Fund	4,780,438	3,705,441	(1,074,997)
Water and Sewer Fund	1,489,943	2,226,867	736,924
Capital Project Fund	15,425,967	13,407,536	(2,018,431)
Special Revenue Fund	1,364,725	1,325,574	(39,151)
TIF Fund	14,000	18,287	4,287
Sachse EDC	3,793,231	3,837,792	44,561
Total Portfolios	$ 28,420,675	$ 25,158,722	$ (3,261,953)

Historical Interest Rates

		July	August	September
Pooled Money Market Account	2012	0.2500%	0.2500%	0.2500%
	2011	0.2500%	0.2500%	0.2500%
	2010	0.4600%	0.4800%	0.4800%
Tex Pool	2012	0.1316%	0.1313%	0.1572%
	2011	0.0665%	0.0851%	0.0929%
	2010	0.2259%	0.2279%	0.2165%

City of Sachse, TX
Investment Portfolios
September 30, 2012

Source	Description	Cusip/ Ref	Purchase Date	Maturity Date	Coupon (Int. Rate)	Days to Maturity	Principal Invested	Book Value Beginning of Month	Book Value Change[1]	Book Value End of Month	Market Value Beginning of Month	Market Value Change	Market Value End of Month
Debt Service													
GO Bond I&S Fund	Money Market	114512	9/30/2012	10/1/2012	0.2500%	1	635,691	635,691	1,534	637,225	635,691	1,534	637,225
Total							635,691	635,691	1,534	637,225	635,691	1,534	637,225
General Fund													
General Fund	TexPool	1111-000	9/30/2012	10/1/2012	0.1572%	1	34,131	34,131	102,485	136,616	34,131	102,485	136,616
General Fund	Money Market	114512	9/30/2012	10/1/2012	0.2500%	1	3,741,231	3,741,231	(172,406)	3,568,825	3,741,231	(172,406)	3,568,825
Total							3,775,362	3,775,362	(69,921)	3,705,441	3,775,362	(69,921)	3,705,441
Water and Sewer Fund													
W/S Impact Fee Fund	Tex Pool	1111-000	9/30/2012	10/1/2012	0.1572%	1	17,078	17,078	(17,078)	0	17,078	(17,078)	0
Utility Fund	Tex Pool	1111-000	9/30/2012	10/1/2012	0.1572%	1	34,156	34,156	(34,156)	(0)	34,156	(34,156)	0
W/S Impact Fee Fund	Money Market	114512	9/30/2012	10/1/2012	0.2500%	1	1,400,218	1,400,218	(21,085)	1,379,133	1,400,218	(21,085)	1,379,133
W/S Restricted Fund	Money Market	114512	9/30/2012	10/1/2012	0.2500%	1	132,572	132,572	31,045	163,617	132,572	31,045	163,617
W/S Operations	Money Market	114512	9/30/2012	10/1/2012	0.2500%	1	762,886	762,886	(78,769)	684,117	762,886	(78,769)	684,117
Total							2,346,910	2,346,910	(120,043)	2,226,867	2,346,910	(120,043)	2,226,867
Capital Project Funds													
Special Sales Tax	Money Market	114512	9/30/2012	10/1/2012	0.2500%	1	2,584,418	2,584,418	20,964	2,605,382	2,584,417	20,964	2,605,381
Special Sales Tax	Tex Pool	1111-000	9/30/2012	10/1/2012	0.1572%	1	34,156	34,156	(34,156)	(0)	34,156	(34,156)	0
Capital Project Funds	Money Market	114512	9/30/2012	10/1/2012	0.2500%	1	1,956,520	1,956,520	(584,208)	1,372,313	1,956,520	(584,208)	1,372,312
Capital Project Fund-TXDOT	Money Market	114512	9/30/2012	10/1/2012	0.2500%	1	0	(0)	0	(0)	0	0	0
CIP-City Property	Money Market	114512	9/30/2012	10/1/2012	0.2500%	1	0	(0)	0	(0)	0	0	0
2009 GO Bonds	TexPool	1111-000	9/30/2012	10/1/2012	0.1572%	1	1,140,509	1,140,509	(774,862)	365,647	1,140,509	(774,862)	365,647
2009 GO Bonds	CD		11/1/2011	8/1/2012	0.3700%	0	0	(0)	0	(0)	0	0	0
2009 GO Bonds	CD		11/1/2011	11/1/2012	0.5000%	31	1,003,332	1,003,332	1,264	1,004,597	1,003,332	1,264	1,004,596
2009 GO Bonds	Money Market	114512	9/30/2012	10/1/2012	0.2500%	1	7,451,979	7,451,979	607,620	8,059,599	7,451,979	607,620	8,059,599
Total							14,170,914	14,170,914	(763,378)	13,407,536	14,170,913	(763,378)	13,407,535
Special Revenue Funds													
Restricted Street Impact Fee Fund	Money Market	114512	9/30/2012	10/1/2012	0.2500%	1	977,712	977,712	(40,330)	937,382	977,712	(40,330)	937,382
Restricted Park Development Fee Fur	Money Market	114512	9/30/2012	10/1/2012	0.2500%	1	2,209	2,209	0	2,209	2,209	0	2,209
Restricted General Fund	Money Market	114512	9/30/2012	10/1/2012	0.2500%	1	384,784	384,784	1,200	385,984	384,784	1,200	385,984
Street Impact Fees	TexPool	1111-000	9/30/2012	10/1/2012	0.1572%	1	17,078	17,078	(17,078)	(0)	17,078	(17,078)	0
Total							1,381,783	1,381,783	(56,208)	1,325,574	1,381,783	(56,208)	1,325,575
TIF Fund													
GBTP TIF Zone #1	Money Market	114512	9/30/2012	10/1/2012	0.2500%	1	14,001	14,001	4,286	18,287	14,001	4,286	18,287
							14,001	14,001	4,286	18,287	14,001	4,286	18,287
EDC Fund													
EDC	CD		3/6/2012	3/6/2013	0.5200%	157	1,201,983	1,201,983	1,573	1,203,556	1,201,983	1,573	1,203,556
EDC	CD		3/6/2012	6/6/2013	0.5400%	247	1,001,716	1,001,716	1,361	1,003,077	1,001,716	1,361	1,003,077
EDC PMMKT	Money Market	114512	9/30/2012	10/1/2012	0.2500%	1	1,618,137	1,618,137	13,022	1,631,159	1,618,137	13,022	1,631,159
							3,821,836	3,821,836	15,955	3,837,792	3,821,836	15,956	3,837,792
Total Portfolio at 9/30/2012							26,146,496	26,146,496	(987,774)	25,158,722	26,146,496	(987,774)	25,158,722

Summary of Portfolios by Security Type
09/30/12

Security Type	Percent of Total (Book Value)	Average # of days	Average Yield	Principal Invested	Book Value Beginning of Month	Book Value Change	Book Value End of Month	Market Value Beginning of Month	Market Value Change	Market Value End of Month
Money Market Account	85.24%	1	0.2500%	21,662,357	21,662,357	-217,127	21,445,230	21,662,357	-1,102,798	21,445,230
TexPool	2.00%	1	0.1572%	1,277,108	1,277,108	-774,846	502,262	1,277,108	143	502,263
CD's	12.76%		0.5200%	3,207,031	3,207,031	4,198	3,211,230	3,207,031	4,198	3,211,229
Total	100.00%			26,146,496	26,146,496	-987,774	25,158,722	26,146,496	-1,102,655	25,158,722

[1] Change = Investment activity including earnings,deposits and withdrawals.

City of Sachse, TX
Investment Portfolios
August 31, 2012

Source	Description	Cusip/ Ref	Purchase Date	Maturity Date	Coupon (Int. Rate)	Days to Maturity	Principal Invested	Book Value Beginning of Month	Book Value Change[1]	Book Value End of Month	Market Value Beginning of Month	Market Value Change	Market Value End of Month
Debt Service													
GO Bond I&S Fund	Money Market	114512	8/31/2012	9/1/2012	0.2500%	1	1,555,663	1,555,663	(919,972)	635,691	1,555,663	(919,972)	635,691
Total							1,555,663	1,555,663	(919,972)	635,691	1,555,663	(919,972)	635,691
General Fund													
General Fund	TexPool	1111-000	8/31/2012	9/1/2012	0.1313%	1	34,127	34,127	4	34,131	34,127	4	34,131
General Fund	Money Market	114512	8/31/2012	9/1/2012	0.2500%	1	4,308,583	4,308,583	(567,352)	3,741,231	4,308,583	(567,352)	3,741,231
Total							4,342,710	4,342,710	(567,348)	3,775,362	4,342,710	(567,348)	3,775,362
Water and Sewer Fund													
W/S Impact Fee Fund	Tex Pool	1111-000	8/31/2012	9/1/2012	0.1313%	1	17,076	17,076	2	17,078	17,076	2	17,078
Utility Fund	Tex Pool	1111-000	8/31/2012	9/1/2012	0.1313%	1	34,152	34,152	4	34,156	34,152	4	34,156
W/S Impact Fee Fund	Money Market	114512	8/31/2012	9/1/2012	0.2500%	1	1,388,946	1,388,946	11,272	1,400,218	1,388,946	11,272	1,400,218
W/S Restricted Fund	Money Market	114512	8/31/2012	9/1/2012	0.2500%	1	132,572	132,572	0	132,572	132,572	0	132,572
W/S Operations	Money Market	114512	8/31/2012	9/1/2012	0.2500%	1	252,582	252,582	510,304	762,886	252,582	510,304	762,886
Total							1,825,328	1,825,328	521,582	2,346,910	1,825,328	521,582	2,346,910
Capital Project Funds													
Special Sales Tax	Money Market	114512	8/31/2012	9/1/2012	0.2500%	1	2,753,654	2,753,654	(169,236)	2,584,418	2,753,653	(169,236)	2,584,417
Special Sales Tax	Tex Pool	1111-000	8/31/2012	9/1/2012	0.1313%	1	34,152	34,152	4	34,156	34,152	4	34,156
Capital Project Funds	Money Market	114512	8/31/2012	9/1/2012	0.2500%	1	1,372,179	1,372,179	584,341	1,956,520	1,372,179	584,341	1,956,520
Capital Project Fund-TXDOT	Money Market	114512	8/31/2012	9/1/2012	0.2500%	1	0	(0)	0	(0)	0	0	0
CIP-City Property	Money Market	114512	8/31/2012	9/1/2012	0.2500%	1	0	(0)	0	(0)	0	0	0
2009 GO Bonds	TexPool	1111-000	8/31/2012	9/1/2012	0.1313%	1	1,140,382	1,140,382	127	1,140,509	1,140,382	127	1,140,509
2009 GO Bonds	CD		11/1/2011	8/1/2012	0.3700%	0	0	(0)	0	(0)	0	0	0
2009 GO Bonds	CD		11/1/2011	11/1/2012	0.5000%	61	1,003,332	1,003,332	0	1,003,332	1,003,332	0	1,003,332
2009 GO Bonds	Money Market	114512	8/31/2012	9/1/2012	0.2500%	1	8,041,173	8,041,173	(589,194)	7,451,979	8,041,173	(589,194)	7,451,979
Total							14,344,872	14,344,871	(173,958)	14,170,914	14,344,871	(173,958)	14,170,913
Special Revenue Funds													
Restricted Street Impact Fee Fund	Money Market	114512	8/31/2012	9/1/2012	0.2500%	1	969,752	969,752	7,960	977,712	969,752	7,960	977,712
Restricted Park Development Fee Fur	Money Market	114512	8/31/2012	9/1/2012	0.2500%	1	2,209	2,209	0	2,209	2,209	0	2,209
Restricted General Fund	Money Market	114512	8/31/2012	9/1/2012	0.2500%	1	379,530	379,530	5,254	384,784	379,530	5,254	384,784
Street Impact Fees	TexPool	1111-000	8/31/2012	9/1/2012	0.1313%	1	17,076	17,076	2	17,078	17,076	2	17,078
Total							1,368,567	1,368,567	13,215	1,381,783	1,368,567	13,216	1,381,783
TIF Fund													
GBTP TIF Zone #1	Money Market	114512	8/31/2012	9/1/2012	0.2500%	1	14,000	14,000	1	14,001	14,000	1	14,001
							14,000	14,000	1	14,001	14,000	1	14,001
EDC Fund													
EDC	CD		3/6/2012	3/6/2013	0.5200%	187	1,201,983	1,201,983	0	1,201,983	1,201,983	0	1,201,983
EDC	CD		3/6/2012	6/6/2013	0.5400%	277	1,001,716	1,001,716	0	1,001,716	1,001,716	0	1,001,716
EDC PMMKT	Money Market	114512	8/31/2012	9/1/2012	0.2500%	1	1,594,313	1,594,313	23,824	1,618,137	1,594,313	23,824	1,618,137
							3,798,012	3,798,012	23,824	3,821,836	3,798,012	23,824	3,821,836
Total Portfolio at 8/31/2012							27,249,151	27,249,151	(1,102,655)	26,146,496	27,249,151	(1,102,655)	26,146,496

Summary of Portfolios by Security Type
08/31/12

Security Type	Percent of Total (Book Value)	Average # of days	Average Yield	Principal Invested	Book Value Beginning of Month	Book Value Change	Book Value End of Month	Market Value Beginning of Month	Market Value Change	Market Value End of Month
Money Market Account	82.85%	1	0.2500%	22,765,155	22,765,155	-1,102,798	21,662,357	22,765,155	-1,102,798	21,662,357
TexPool	4.88%	1	0.1313%	1,276,965	1,276,965	143	1,277,108	1,276,965	143	1,277,108
CD's	12.27%		0.5200%	3,207,031	3,207,031	0	3,207,031	3,207,031	0	3,207,031
Total	100.00%			27,249,151	27,249,151	-1,102,655	26,146,496	27,249,151	-1,102,655	26,146,496

[1] Change = Investment activity including earnings,deposits and withdrawals.

City of Sachse, TX
Investment Portfolios
July 31, 2012

Source	Description	Cusip/ Ref	Purchase Date	Maturity Date	Coupon (Int. Rate)	Days to Maturity	Principal Invested	Book Value Beginning of Month	Book Value Change[1]	Book Value End of Month	Market Value Beginning of Month	Market Value Change	Market Value End of Month
Debt Service													
GO Bond I&S Fund	Money Market	114512	7/31/2012	8/1/2012	0.2500%	1	1,552,371	1,552,371	3,292	1,555,663	1,552,371	3,292	1,555,663
Total							1,552,371	1,552,371	3,292	1,555,663	1,552,371	3,292	1,555,663
General Fund													
General Fund	TexPool	1111-000	7/31/2012	8/1/2012	0.1316%	1	34,123	34,123	4	34,127	34,123	4	34,127
General Fund	Money Market	114512	7/31/2012	8/1/2012	0.2500%	1	4,746,315	4,746,315	(437,732)	4,308,583	4,746,315	(437,732)	4,308,583
Total							4,780,438	4,780,438	(437,728)	4,342,710	4,780,438	(437,728)	4,342,710
Water and Sewer Fund													
W/S Impact Fee Fund	Tex Pool	1111-000	7/31/2012	8/1/2012	0.1316%	1	17,074	17,074	2	17,076	17,074	2	17,076
Utility Fund	Tex Pool	1111-000	7/31/2012	8/1/2012	0.1316%	1	34,148	34,148	4	34,152	34,148	4	34,152
W/S Impact Fee Fund	Money Market	114512	7/31/2012	8/1/2012	0.2500%	1	1,361,033	1,361,033	27,912	1,388,946	1,361,033	27,913	1,388,946
W/S Restricted Fund	Money Market	114512	7/31/2012	8/1/2012	0.2500%	1	132,572	132,572	0	132,572	132,572	0	132,572
W/S Operations	Money Market	114512	7/31/2012	8/1/2012	0.2500%	1	(54,884)	(54,884)	307,466	252,582	(54,884)	307,466	252,582
Total							1,489,943	1,489,943	335,384	1,825,328	1,489,943	335,385	1,825,328
Capital Project Funds													
Special Sales Tax	Money Market	114512	7/31/2012	8/1/2012	0.2500%	1	2,903,722	2,903,722	(150,069)	2,753,654	2,903,722	(150,069)	2,753,653
Special Sales Tax	Tex Pool	1111-000	7/31/2012	8/1/2012	0.1316%	1	34,148	34,148	4	34,152	34,148	4	34,152
Capital Project Funds	Money Market	114512	7/31/2012	8/1/2012	0.2500%	1	1,371,904	1,371,904	275	1,372,179	1,371,904	275	1,372,179
Capital Project Fund-TXDOT	Money Market	114512	7/31/2012	8/1/2012	0.2500%	1	0	(0)	0	(0)	0	0	0
CIP-City Property	Money Market	114512	7/31/2012	8/1/2012	0.2500%	1	0	(0)	0	(0)	0	0	0
2009 GO Bonds	TexPool	1111-000	7/31/2012	8/1/2012	0.1316%	1	1,140,254	1,140,254	128	1,140,382	1,140,254	128	1,140,382
2009 GO Bonds	CD		11/1/2011	8/1/2012	0.3700%	0	1,002,465	1,002,465	(1,002,465)	(0)	1,002,465	(1,002,465)	0
2009 GO Bonds	CD		11/1/2011	11/1/2012	0.5000%	92	1,003,332	1,003,332	0	1,003,332	1,003,332	0	1,003,332
2009 GO Bonds	Money Market	114512	7/31/2012	8/1/2012	0.2500%	1	7,970,142	7,970,142	71,031	8,041,173	7,970,142	71,031	8,041,173
Total							15,425,967	15,425,967	(1,081,096)	14,344,871	15,425,967	(1,081,096)	14,344,871
Special Revenue Funds													
Restricted Street Impact Fee Fund	Money Market	114512	7/31/2012	8/1/2012	0.2500%	1	962,596	962,596	7,156	969,752	962,596	7,156	969,752
Restricted Park Development Fee Fur	Money Market	114512	7/31/2012	8/1/2012	0.2500%	1	5,051	5,051	(2,842)	2,209	5,051	(2,842)	2,209
Restricted General Fund	Money Market	114512	7/31/2012	8/1/2012	0.2500%	1	380,004	380,004	(474)	379,530	380,004	(474)	379,530
Street Impact Fees	TexPool	1111-000	7/31/2012	8/1/2012	0.1316%	1	17,074	17,074	2	17,076	17,074	2	17,076
Total							1,364,725	1,364,725	3,842	1,368,567	1,364,725	3,842	1,368,567
TIF Fund													
GBTP TIF Zone #1	Money Market	114512	7/31/2012	8/1/2012	0.2500%	1	14,000	14,000	0	14,000	14,000	0	14,000
							14,000	14,000	0	14,000	14,000	0	14,000
EDC Fund													
EDC	CD		3/6/2012	3/6/2013	0.5200%	218	1,201,983	1,201,983	0	1,201,983	1,201,983	0	1,201,983
EDC	CD		3/5/2012	6/6/2013	0.5400%	308	1,001,716	1,001,716	0	1,001,716	1,001,716	0	1,001,716
EDC PMMKT	Money Market	114512	7/31/2012	8/1/2012	0.2500%	1	1,589,532	1,589,532	4,781	1,594,313	1,589,532	4,781	1,594,313
							3,793,231	3,793,231	4,781	3,798,012	3,793,231	4,781	3,798,012
Total Portfolio at 7/31/2012							28,420,675	28,420,676	(1,171,524)	27,249,151	28,420,675	(1,171,524)	27,249,151

Summary of Portfolios by Security Type
07/31/12

Security Type	Percent of Total (Book Value)	Average # of days	Average Yield	Principal Invested	Book Value Beginning of Month	Book Value Change	Book Value End of Month	Market Value Beginning of Month	Market Value Change	Market Value End of Month
Money Market Account	83.54%	1	0.2500%	22,934,359	22,934,359	-169,203	22,765,155	22,934,358	-169,203	22,765,155
TexPool	4.69%	1	13.1600%	1,276,821	1,276,821	144	1,276,965	1,276,821	144	1,276,965
CD's	11.77%		0.5008%	4,209,496	4,209,496	-1,002,465	3,207,031	4,209,496	-1,002,465	3,207,031
Total	100.00%			28,420,676	28,420,676	-1,171,524	27,249,151	28,420,675	-1,171,524	27,249,151

[1]Change = Investment activity including earnings,deposits and withdrawals.

Sachse, Texas

Sachse City Hall
3815 Sachse Road Building
B
Sachse, Texas 75048

Legislation Details (With Text)

File #:	12-1180	**Version:**	1	**Name:**	America Recycles Day
Type:	Agenda Item			**Status:**	Agenda Ready
File created:	10/29/2012			**In control:**	City Council
On agenda:	11/5/2012			**Final action:**	
Title:	Proclamation Declaring November 15, 2012 as America Recycles Day Executive Summary Proclamation Declaring November 15, 2012 as America Recycles Day				
Sponsors:					
Indexes:					
Code sections:					
Attachments:	Proc. Recycle.pdf				

Date	Ver.	Action By	Action	Result

Title
Proclamation Declaring November 15, 2012 as America Recycles Day

Executive Summary
Proclamation Declaring November 15, 2012 as America Recycles Day

Background
This will be the first year that the City of Sachse celebrates America Recycles Day. There will be a special Library Story Time on November 8, at 11 am. During this story time Park Board members will read stories about recycling and will also be giving out recycling items to the participants. We are also working with other organizations to promote the importance of recycling in our parks.

Policy Considerations
None

Budgetary Considerations
None

Staff Recommendations
None

powered by Legistar™

Proclamation

Proclamation by the Mayor of Sachse Texas establishing November 15, 2012 as America Recycles Day in Sachse

Whereas, the City of Sachse recognizes the importance of protecting and preserving our natural resources and adopting conscientious habits that will improve our daily lives and bring about a cleaner, safer, and more sustainable environment; and

Whereas, although there has been a significant increase in the amount of recycling in Sachse to date, we must also continue to focus on other initiatives such as waste reduction, composting, the reuse of products and materials, and purchasing recycled products; and

Whereas, by encouraging businesses, state agencies, nonprofit organizations, schools and individuals to celebrate America Recycles Day 2012 in Sachse, we can further promote recycling as an environmentally efficient and economically smart habit; and

Whereas, it is important that all Sachse citizens become involved in recycling activities and learn more about the many recycled and recyclable products available to them as consumers; it is also fitting for the City of Sachse to celebrate America Recycles Day 2012 in Sachse, and take action by educating citizens about the recycling options available in our community;

NOW, THEREFORE, by the powers vested in me as Mayor of the great City of Sachse, Texas:
I DO HEREBY PROCLAIM November 15, 2012 as

America Recycles Day in Sachse

and call upon our citizens to join in activities that promote responsible environmental stewardship and help us renew our commitment to building a better world today for future generations.

IN WITNESS WHEREOF, I have hereunto set my hand and caused the Seal of the City of Sachse, Texas to be affixed this the 15th day of November, 2012.

Mike J. Felix
Mayor

Litho. in U.S.A.
© GOES 340
All Rights Reserved

Sachse City Hall
3815 Sachse Road Building
B
Sachse, Texas 75048

Legislation Details (With Text)

File #:	12-1200	**Version:**	1	**Name:**	ENG - IMPACT FEE ADOPTION
Type:	Agenda Item			**Status:**	Agenda Ready
File created:	11/1/2012			**In control:**	City Council
On agenda:	11/5/2012			**Final action:**	

Title: Conduct a public hearing and consider approval of an Ordinance of the City Council of the City of Sachse, Texas amending the Code of Ordinances by amending Chapter 8 “Subdivision” by amending Section 8-21 “Impact Fees” by updating and adopting revised land use assumptions, capital improvements plan and amending the impact fees for water, wastewater and roadway facilities; providing for land use categories; providing for service units; and by amending Section 8-22 to provide for inspections fees to be provided in the City’s Master Fee Schedule which is adopted by City Council Resolution; providing a repealing clause; providing a severability clause; providing for a penalty not to exceed two thousand dollars ($2,000.00) for each offense; and providing an effective date.

Executive Summary
The City of Sachse assesses impact fees for development to help pay for water, sanitary sewer, and roadways facilities required to serve that development. State law requires municipalities to update the Land Use Assumptions, Capital Improvement Plan, and Impact Fee Ordinance every five years. The Land Use Assumptions and Capital Improvements Plan was adopted by Ordinance by City Council on September 17, 2012. This item is for the consideration of adoption of the impact fees for water, sanitary sewer, and roadways facilities.

Sponsors:

Indexes:

Code sections:

Attachments:
ENG - IMPACT FEE ADOPTION - ATTACHMENT 1.pdf
ENG - IMPACT FEE ADOPTION - ATTACHMENT 2.pdf
ENG - IMPACT FEE ADOPTION - REPORT.pdf
ENG - IMPACT FEE ADOPTION - ORDINANCE.pdf
ENG - IMPACT FEE ADOPTION - PRESENTATION.pdf

Date	Ver.	Action By	Action	Result

Title

Conduct a public hearing and consider approval of an Ordinance of the City Council of the City of Sachse, Texas amending the Code of Ordinances by amending Chapter 8 “Subdivision” by amending Section 8-21 “Impact Fees” by updating and adopting revised land use assumptions, capital improvements plan and amending the impact fees for water, wastewater and roadway facilities; providing for land use categories; providing for service units; and by amending Section 8-22 to provide for inspections fees to be provided in the City’s Master Fee Schedule which is adopted by City Council Resolution; providing a repealing clause; providing a severability clause; providing for a penalty not to exceed two thousand dollars ($2,000.00) for each offense; and providing an effective date.

Executive Summary

powered by Legistar™

The City of Sachse assesses impact fees for development to help pay for water, sanitary sewer, and roadways facilities required to serve that development. State law requires municipalities to update the Land Use Assumptions, Capital Improvement Plan, and Impact Fee Ordinance every five years. The Land Use Assumptions and Capital Improvements Plan was adopted by Ordinance by City Council on September 17, 2012. This item is for the consideration of adoption of the impact fees for water, sanitary sewer, and roadways facilities.

Background

Section 395 of the Texas Local Government Code specifies the process necessary for the implementation of impact fees. The Local Government Code also requires municipalities which assess impact fees to update the Land Use Assumptions (LUA's), 10-year Capital Improvement Plan (CIP) and impact fee ordinance every five years.

In order to remain compliant with the standards set forth in Section 395 of the Texas Local Government Code, there were a number of steps that occurred leading up to the consideration of adoption of the Impact Fee Ordinance. Below is a summary of these steps

- January 22, 1990 - Appointment by City Council of the Planning and Zoning Commission to serve as the Impact Fee Advisory Committee.
- July 23, 2012 - Impact Fee Advisory Committee Meeting to discuss Land Use Assumptions and Capital Improvements Plan and offer recommendation to City Council.
- August 6, 2012 - City Council approves Resolution Number 3407 setting date, time and place for public hearing for Land Use Assumptions and Capital Improvements Plan.
- August 16, 2012 - Publication of legal notice in Sachse News regarding public hearing for consideration of adoption of Land Use Assumptions and Capital Improvements Plan.
- September 17, 2012 - City Council conducts public hearing for Land Use Assumptions and Capital Improvements Plan.
- September 17, 2012 - City Council adopts Ordinance Number 3417, whereby adopting the proposed Land Use Assumptions and Capital Improvements Plan.
- September 17, 2012 - City Council approves Resolution Number 3415 setting a date, time and place for a public hearing on the proposed adoption of the Water, Sewer and Roadway Facilities Impact Fees.
- September 24, 2012 - Impact Fee Advisory Committee Meeting to discuss Water, Sewer and Roadway Facilities Impact Fees and offer recommendation to City Council.
- September 27, 2012 - Publication of legal notice in Sachse News regarding public hearing for consideration of adoption of Water, Sewer and Roadway Facilities Impact Fees.
- November 5, 2012 - City Council to conduct public hearing for proposed Water, Sewer and Roadway Facilities Impact Fees.
- November 5, 2012 - City Council to consider adoption of Impact Fee Ordinance for proposed Water, Sewer and Roadway Facilities Impact Fees.

The proposed Impact Fees presented for consideration are based upon the Land Use

powered by Legistar™

The proposed Impact Fees presented for consideration are based upon the Land Use Assumptions and Capital Improvements approved by Ordinance Number 3417 by City Council on September 17, 2012.

Policy Considerations

There are several steps in updating the LUA's, CIP and Impact Fee Ordinance. A timeline listing the required steps was provided in the Background section of this report. After the City Council adopted the LUA's and 10-year CIP, the maximum impact for water, sanitary sewer and roadway facilities was calculated based on the adopted LUA's and 10-year CIP. This information was presented to the Impact Fee Advisory Committee (IFAC)at their meeting on September 24, 2012, where they offered a recommendation to City Council (See Attachment 1 for minutes from meeting). The recommendation by IFAC was to move forward with the Maximum Allowable Sanitary Sewer and Roadway Facilities Impact Fees as presented and to recommend a 30% reduction in the Maximum Allowable Water Impact Fee. *While the IFAC did submit a recommendation, the requirement stated in The Texas Local Government Code is for the IFAC to submit written comments* . The Impact Fee Advisory Committee (IFAC) submitted a written report to the City Engineer on October 8, 2012 via the approved minutes shown on Attachment 1.

The Capital Improvement Plan update identified $11,884,670 in water improvements and $13,339,000 in sanitary sewer improvements over the next 10-years to support the demand of new development. The roadway improvements over the next ten years are approximated to cost $131,322,800. *It should be noted that these are the total costs of the projects and for some of these projects only a proportionate amount is needed for new development over the next ten years.* The remaining proportion will serve existing developments and cannot be used to calculate the maximum impact fee. The eligible project costs that will be attributed to new development over the next ten years are:

- $10,130,559.13 for water improvements
- $5,224,088.32 for sanitary sewer improvements
- $16,536,117.37 for roadway improvements.

The Texas Local Government Code prescribes how the maximum allowable impact fee may be computed. Sachse's maximum allowable impact fee computed is equal to 50% of the proportional cost to construct infrastructure needed by development taking place over the next 10 years. The total amount of impact fees assessed (or paid) for any particular development is allocated based on equivalent dwelling units (EDU): a measure of the development's infrastructure demands. The maximum impact fee over the next ten years for water, sanitary sewer, and roadway facilities are as follows:

- Maximum Water Impact Fee (per EDU) - $3,602.42
- Maximum Sanitary Sewer Impact Fee (per EDU) - $1,857.68
- Maximum Roadway Impact Fee (per EDU per vehicle mile) - $1,042.73

An Equivalent Dwelling Unit (EDU) is based on a single family residential development with a 3/4 inch water meter. The methodology to compute the maximum allowed impact fee for

3/4-inch water meter. The methodology to compute the maximum allowed impact fee for water, sanitary sewer, and roadway facilities is very complicated. Exhibit 7-1 in the report explains the methodology in its simplest form. *Basically, the maximum impact fee can only take into consideration the portion of the cost of the project which will serve the EDU's over the next ten years* . For example, Table 4-1 lists the proposed water projects and several of them show "by Developer" beside the name of the project. The total cost of these projects will be attributed to new development so the entire cost of the project can be used towards the calculation of the impact fee. Conversely, most of the sanitary sewer and roadway projects will serve existing development so the cost of the project was pro-rated to account for the portion of the cost of the project which will serve just the new development over the next ten years. Hence, due to these pro-rated adjustments, the maximum impact fee for water is proportionately higher than for sanitary sewer and roadway facilities because more projects for water improvements will be required specifically for new development only. Tables 7-5, 7-6, and 7-7 show these prorated costs for roadway, water, and sanitary sewer projects, respectively.

Water, sanitary sewer, and roadway impact fees for the area cities of Rowlett and Wylie were compared to Sachse's proposed fees. Land Use Categories that illustrated the greatest variability from Sachse's proposed fees are shown in Attachment 2 for comparative purposes. It should be noted that the impact fees for other cities are calculated based on their capital improvement needs for future development compared to their existing system. The needs of Sachse are different than the needs of other cities; therefore, any comparison would be for market comparison purposes only.

In conclusion, the main items that th City Council may want to consider are as follows:

- Deliberation of proposed impact fees in relation to surrounding municipalities tempered with the understanding that capital improvement needs for each respective municipality are unique for that municipality. (Comparative Municipalities are listed in Attachment 2)
- Discussion of how the Impact Fees that are ultimately adopted may impact future development.

Budgetary Considerations

Impact Fees will effect the City budget inasmuch that the adopted Impact Fee only pays for a portion of the cost of infrastructure associated with new development, thereby requiring the City to finance the shortfall in these infrastructure costs.

Staff Recommendations

Staff recommends approval of an Ordinance of the City Council of the City of Sachse, Texas amending the Code of Ordinances by amending Chapter 8 “Subdivision” by amending Section 8-21 “Impact Fees” by updating and adopting revised land use assumptions, capital improvements plan and amending the impact fees for water, wastewater and roadway facilities; providing for land use categories; providing for service units; and by amending Section 8-22 to provide for inspections fees to be provided in the City’s Master Fee Schedule which is adopted by City Council Resolution; providing a repealing clause; providing a severability clause; providing for a penalty not to exceed two thousand dollars ($2,000.00) for

powered by Legistar™

severability clause; providing for a penalty not to exceed two thousand dollars ($2,000.00) for each offense; and providing an effective date.

City of Sachse, Texas
Impact Fee Advisory Committee
Minutes of the IFAC Meeting of September 24, 2012
Time: 7:10 p.m. Place: Sachse City Hall

Members Present:
Warren Becker
Scott Everett
Charles Ross
David Hock

Members Absent:
Stephen Curtis
Wally Sparks
Scott Williams

Staff Present:
Marc Kurbansade, Community Development Director
Charlotte Youngblood, Secretary

Others Present:
Don Wortham, Cobb, Fendley, & Associates

Vice-Chairman David Hock opened the meeting of the Impact Fee Advisory Committee at 7:10 p.m. and a quorum was declared.

1. Consider approval of the minutes from the August 13, 2012 Impact Fee Advisory Committee meeting.
Warren Becker made a motion to approve the minutes. Charles Ross seconded the motion. The motion passed with all voting in favor.

2. Consider and Act upon approval of written comments and direct a member of the committee to file written comments with the City Engineer no later than before the 5th business day before the date of the public hearing to be held by the City Council regarding the proposed updates and amendments to the Water, Sanitary Sewer, and Roadway Impact Fees.
Shawn Poe, City Engineer, introduced the item and did a PowerPoint presentation. Mr. Poe explained Section 395 of the State of Texas Local Government Code requires cities which assess impact fees to update the Land Use Assumptions (LUA's), 10-year Capital Improvement Plan (CIP) and impact fee ordinance every five years. Texas Local Government Code also requires the City Council to appoint an Impact Fee Advisory Committee made up of at least five members. The committee's charge is to review the proposed 10-year CIP and advise and assist the City Council in adopting the Land Use Assumptions and amending impact fees and provide semi-annual reports to see if there are any inequities that could arrive on based on the economy and other factors. He explained impact fees are a way of financing off-site improvements for new development. It is required by state law that we update the impact fees every five years. He reviewed the time line as seen in Attachment 1. He said the IFAC met on July 23, 2012 and recommended the City Council adopt the LUA and 10-year CIP. Once the Council held the public hearing on September 17, 2012 and adopted the LUA and CIP the maximum impact fee which can be assessed was calculated for water, sewer and roadway impact fees. Moving along the timeline, the LUA and CIP Report has been made publicly available thru Legistar and a Public Hearing has been set for November 5, 2012. The IFAC will make recommendation to City Council through written comments no later than the 5th business day before the date of the public hearing. He explained the methodology of how the maximum impact fees were calculated. He

explained that the IFAC can recommend assessing any amount up to the maximum impact fee calculated. He provided a chart showing area cities impact fees per single family dwelling. He said you can't really compare these apples to apples because they have different systems in place and different needs but stated that it is responsible to look at it on a comparison basis to make sure you are competitive with surrounding cities for marketing purposes only with the understanding that the city may be subsidizing a lot of the infrastructure for future development. Mr. Poe showed some sample impact fee calculations for single family and commercial development.

Scott Everett said he thought the IFAC role was to recommend adopting the maximum fees allowed and then City Council could recommend a lower fee if they choose too. Do we need to recommend the maximum fees or what we feel the impact fees should be? Mr. Poe said that tonight they need to discuss the methodology that is used to determine the impact fees and if you are comfortable with that and the impact fees based on that approach. Mr. Everett stated he personally felt that the fees were way overboard. Mr. Ross said that was his feelings with raising the fees thirty to sixty percent. He asked had there been any analysis done as far as the fees being competitive with surrounding areas. Mr. Poe stated that these fees are set at what the maximum fee is allowed by state law. He stated the city will have to determine how much it wants to subsidize the development community and there are many factors on what a developer looks at to determine location. Take for instance Southlake they could have set their fees to the maximum and it would not have matter because the developers wanted to be in that corridor. Mr. Ross said he would like to know what Garland's impact fees are from the standpoint of the Turnpike District. Mr. Hock asked how would the maximum fee impact our residential development since it would increase it from approximately $5300 to $7300. Mr. Poe said in residential you don't really see any impact because the fees are generally passed on to the home builder and built into the price of the lot. Mr. Hock said that the City of Rowlett has been putting in infrastructure will they have to increase their impact fees soon. Mr. Poe said that Rowlett raised their impact fees in 2004. There was backlash from the development community and three months later they cut their fees in half. In 2009 they determined LUA were adequate and kept the same rates. Mr. Hock asked if the IFAC recommends that Council should adopt the maximum fees what leverage does that give them in negotiations with developers. Mr. Poe said sometimes the higher the fees allows the city more leverage to credit those fees depending on how the development will benefit the city. Mr. Everett stated his concern is that we do not have a lot of interest from developers wanting to come here and if the fees are too high it will discourage future development. Mr. Becker was concerned these fees are not competitive with surrounding areas. Mr. Ross had a question about the discrepancies in the fees. He said for water, sewer, and roadway on the comparison table are a different amount than what we are recommending in the staff report. Mr. Poe stated that they were from rounding errors in the spreadsheet. Mr. Everett stated that our future is in commercial development and he wanted the city to be business friendly and competitive with our fees. More discussion followed among commissioners about impact fee rates and balancing the need to be competitive with surrounding cities.

Mr. Becker made a motion that the new impact fee study be accepted as recommended by the report with the exception of the water and IFAC recommends that the City Council make a 30% reduction in the amended maximum water impact fee and accept the amended maximum for sewer and roadway. Charles Ross seconded the motion. The motion passed with all voting in the favor.

There being no further business Scott Everett moved to adjourn. The meeting was adjourned at 8:57 p.m.

Secretary

Chairperson

ATTACHMENT 2

LAND USE CATEGORY	DEVELOPMENT UNIT	SACHSE *(proposed)*	WYLIE (Service Area W)	WYLIE (Service Area E)	ROWLETT (Average)
General Light Industrial	1,000 SF GFA	$ 2,356.57	$ 2,182.95	$ 3,701.46	$ 544
Hotel	Room	$ 1,428.54	$ 1,314.23	$ 2,228.43	$ 272
Church	1,000 SF GFA	$ 1,334.69	$ 1,032.08	$ 1,750.01	$ 193
Day Care Center	1,000 SF GFA	$ 24,170.48	*N/A*	*N/A*	$ 3,815
Medical Clinic	1,000 SF GFA	$ 12,554.47	*N/A*	*N/A*	$ 2,712
Animal Hospital / Veterinary Clinic	1,000 SF GFA	$ 9,155.17	*$ 3,318.98*	*$ 5,627.73*	*$ 2,031*
General Office Building	1,000 SF GFA	$ 3,607.85	$ 3,318.98	$ 5,627.73	$ 827
Medical-Dental Office Building	1,000 SF GFA	$ 8,383.55	*$ 3,318.98*	*$ 5,627.73*	$ 2,031
Fast Food Restaurant with Drive-Thru Window	1,000 SF GFA	$ 40,583.05	*$ 15,570.23*	*$ 26,401.23*	$ 5,562
Quality Restaurant	1,000 SF GFA	$ 10,166.62	*$ 15,570.23*	*$ 26,401.23*	$ 1,394
Coffee / Donut Shop with Drive-Thru Window	1,000 SF GFA	$ 52,042.65	*$ 15,570.23*	*$ 26,401.23*	*$ 1,324*
Free-Standing Retail Store	1,000 SF GFA	$ 8,727.65	*$ 5,850.90*	*$ 9,920.92*	$ 1,324
Pharmacy / Drugstore w/ Drive-Thru Window	1,000 SF GFA	$ 12,794.30	*$ 5,850.90*	*$ 9,920.92*	$ 2,365
Supermarket	1,000 SF GFA	$ 16,287.44	*$ 5,850.90*	*$ 9,920.92*	$ 3,285
Drive-In Bank	Drive-In Lanes	$ 33,179.67	$ 28,868.40	$ 48,949.92	$ 6,826
Hair Salon	1,000 SF GFA	$ 2,815.37	*$ 5,850.90*	*$ 9,920.92*	*$ 1,324*

Notes

1. Fees shown in italics and highlighted did not have a direct corresponding land use category for comparison in that municipality. The depicted fee is based upon staff's professional judgment.
2. Rowlett Percent for Maximum Impact Fee Collected (50% for Residential, 10% Non-Residental)

City of Sachse

2011-2021
Capital Improvements Plan & Impact Fee Analysis for

Water, Sanitary Sewer
And Thoroughfares

Prepared By:

CobbFendley

6801 Gaylord Parkway, Suite 302
Frisco, Texas 75034
P: 972.335.3214 | F: 972.335.3202
www.cobbfendley.com

Contents

Page

1.0 EXECUTIVE SUMMARY 1
2.0 POPULATION PROJECTIONS 6
3.0 LAND USE PROJECTIONS 7
4.0 WATER MASTER PLAN 7
4.1 General 7
4.2 Existing Water System 7
4.3 Population and Service Connections 8
4.4 Required Storage 8
4.5 Demand Rates 9
4.6 Pumping Requirements 11
4.7 NTMWD Water Supply 12
4.8 Recommendations to Achieve Compliance 13
4.9 Opinion of Probable Cost 14
5.0 SANITARY SEWER MASTER PLAN 15
5.1 General 15
5.2 Existing Sanitary Sewer System 15
5.3 Design Criteria 15
5.4 Existing Requirements 16
5.5 Proposed Improvements 2021 16
5.5.1 Demand Requirements 16
5.6 Opinion of Probable Cost 18
6.0 THOROUGHFARE MASTER PLAN 19
6.1 General 19
6.2 Existing Thoroughfare System 19
6.3 Design Criteria 20
6.3.1 Principal Arterial 20
6.3.2 Minor Arterial 21
6.3.3 Collector 21
6.4 Proposed Improvements 22
6.5 Demand Rates 22
7.0 MAXIMUM IMPACT FEE DETERMINATION 23
7.1 Basis for Impact Fee Compliance 23

7.2 Technical Basis for Impact Fee Compliance 23
7.2.1 Capital Improvements Plan Requirements 23
7.2.2 Service Area Definitions 23
7.2.3 Land Use Assumptions 24
7.2.4 Water and Sanitary Sewer Usage and Measurement 24
7.2.5 Roadway Usage and Measurement 26
7.2.6 Projected Water and Sanitary Sewer & Roadway Demands 26
7.2.7 Applicable CIP Costs 27
7.3 Impact Fee Determination Methodology 27
7.4 Methods in Recovering Costs of Service 27
7.5 Derivation 28
7.6 Maximum Impact Fee Calculation 28

Acronyms and Abbreviations iv

Tables

4-1 Water CIP Projects
5-1 Inventory of Existing Lift Stations
5-2 Sewer CIP Projects
5-3 Future & Existing Sanitary Sewer Lines to Future Southeast Lift Station
5-4 Existing Pipe Size Check
5-5 Ultimate Pipe Size Check
5-6 Existing and Future Areas (1, 2A & 3) (with Future Southeast Lift Station)
5-7 Existing and Future Areas (1, 2A &3) (without Future Southeast Lift Station)
6-1 Thoroughfare Order of Magnitude Summary Sheet
6-2 Existing Traffic Count Information
7-1 Water Demands by Land Use Type
7-2 Sanitary Sewer Demands by Land Use Type
7-3 Water Project Cost Summary
7-4 Sanitary Sewer Project Cost Summary
7-5 Roadway Project Cost Summary
7-6 Water Impact Fee Allocation
7-7 Sanitary Sewer Impact Fee Allocation
7-8 Vehicle Mile Analysis

Exhibits

3-1 City of Sachse Future Land Use Map
4-1 Existing and Proposed Water Lines and Tanks
4-2 Water Distribution System Master Plan Map
5-1A Existing Lift Stations

5-1B	Existing Areas with Land Use
5-1C	Existing Areas with Land Use (Aerial Overlay)
5-1D	Existing Lift Stations with Drainage Basins and Land Use
5-1E	Existing Lift Stations with Drainage Areas and Land Use (Aerial Overlay)
5-2A	Scenario 1: Ex. Lift Stations with Ex. and Ultimate Buildout (Contour Overlay)
5-2B	Scenario 1: Ex. List Stations with Ex. and Ultimate Buildout (Aerial Overlay)
5-3A	Scenario 2: Ex. and Future Lift Stations (Ultimate Areas)
5-3B	Scenario 2: Proposed Improvements (Aerial Overlay)
5-3C	Scenario 2: Proposed Improvements (Contour Overlay)
5-3D	Scenario 2: Proposed Improvements
5-4A	Ex. Sanitary Sewer System Flow Verification for Ex. Land Use (Contour Overlay)
5-4B	Ex. Sanitary Sewer System Flow Verification for Ex. Land Use (Aerial Overlay)
5-5A	Ex. Sanitary Sewer System Flow Verification-Ultimate Buildout (Contour Overlay)
5-5B	Ex. Sanitary Sewer System Flow Verification-Ultimate Buildout (Aerial Overlay)
5-6A	Bunker Hill Drainage Basins (Contour Overlay)
5-6B	Bunker Hill Drainage Basins (Aerial Overlay)
5-7A	Bunker Hill Ultimate Drainage Basins without Southeast Lift Station (Contour Overlay)
5-7B	Bunker Hill Ultimate Drainage Basins without Southeast Lift Station (Aerial Overlay)
6-1	Overall Thoroughfare Plan
6-2	Traffic Count Exhibit
7-1	Impact Fee Derivation
7-2	Roadway Impact Fee Schedule
7-3	Roadway Utilized Capacity Costs

ACRONYMS AND ABBREVIATIONS

AASHTO	American Association of State and Highway Transportation Officials
ADF	Average Daily Flow
ASCE	American Society of Civil Engineers
CFS	Cubic Feet per Second
CIP	Capital Improvements Plan
EDU	Equivalent Dwelling Unit
GPD	Gallons Per Day
GPM	Gallons Per Minute
GPED	Gallons Per Day EDU
ITE	Institute of Transportation Engineers
LOS	Level of Service
MDF	Maximum Daily Flow
MGD	Million Gallons per Day
NCTCOG	North Central Texas Council of Governments
NTMWD	North Texas Municipal Water District
PGBT	President George Bush Turnpike
PH	Peak Hour Flow
SH	State Highway
TCEQ	Texas Commission on Environmental Quality
TWDB	Texas Water Development Board

1.0 EXECUTIVE SUMMARY

Cobb, Fendley, and Associates, Inc. (CobbFendley) has been contracted by the City of Sachse to prepare a 10-year Capital Improvements Plan ("CIP") for Water, Sanitary Sewer, Thoroughfares, and to perform a study to determine a maximum allowable impact fee for each.

The Capital Improvements Plan and Impact Fee Study were conducted in compliance with Local Government Code, Title 12, Planning and Development, Chapter 395, et seq, Financing Capital Improvements in Municipalities, Counties, and Certain Other Local Governments and its Successors. Under the Government Code requirements, the City is required to adopt an ordinance, order, or resolution approving land use assumptions and capital improvements plan prior to considering adoption of an impact fee.

Objectives

The objectives of this study are to identify the probable growth of the City through 2021 and to determine the capital improvements that will be needed to provide service to this growth, and to calculate the maximum allowable impact fees which may be assessed to new development to defray the cost of the required water, sanitary sewer and thoroughfare improvements needed to support the added demand.

The study was developed as follows:

- Population and land use projections - Projections were derived from historical growth statistics and anticipated growth, and formed the basis for which service demands were derived. Sources used in making population and land use projections include the 2010 Census, the North Central Texas Council of Governments ("NCTCOG"), the Texas Water Development Board ("TWDB") and the Texas Commission on Environmental Quality (“TCEQ”) and information provided by the City of Sachse;

- The existing and anticipated demand for water and sanitary sewer were developed from consumption records and anticipated growth within the City. A water, sanitary sewer and thoroughfare CIP for 2021 was developed to serve the projected land uses and resulting utility demands. This CIP will become the basis for the City's maximum impact fee determination;

- Water System Capital Improvement Projects are based on the water distribution model and master plan developed by Birkhoff, Hendricks & Conway, LLP dated September 2011. See Exhibit 4-2 for Water Distribution System Master Plan Map.

- The City of Garland Wastewater Management Plan 2008, prepared by Black & Veatch and sign in October of 2011, has been reviewed as part of this study.
- The Thoroughfare alignments and typical sections are based on the 2001 Thoroughfare Plan prepared by Wilbur Smith Associates and the 2005 CIP Thoroughfare Map prepared by Hunter Associates Texas, Ltd.
- The maximum impact fee was determined in compliance with Local Government Code, Title 12, Planning and Development, Chapter 395, et seq, Financing Capital Improvements in Municipalities, Counties, and Certain Other Local Governments and Its Successors.

The maximum impact fee determination was made using the Chapter 395 prescription for use of funds collected. Existing capital improvements that are still being paid off and new facilities that will be required by new development for the study period were identified and tabulated. The capital improvement projects identified through this study total $11,884,670 for water, $13,339,000 for sanitary sewer and $131,322,800 for thoroughfares. The estimated construction costs for proposed improvements include basic items plus appurtenances, as well as allowances for engineering and contingencies. The costs assume that the improvements will be constructed within existing roadway rights-of-way, and do not include allowances for legal or fiscal costs. Those costs are addressed in the impact fee computation. The probable costs are based on current-year dollars and average unit costs. The maximum impact fee for water is $3,602.42 per EDU, the maximum sanitary sewer impact fee is $1,857.68 per EDU, and he maximum roadway impact fee is $1,042.73 per Vehicle Mile.

PROJECT PRIORITIES

Water

1.	Two 4.6 MGD Pumps at Public Works Pump Station
2.	Bunker Hill 12” Water Line (N. Segment) (by Developer)
3.	Bunker Hill 12” Water Line (S. Segment) (by Developer)
4.	12” Water Line (by Developer) SH 78 Westward to Clear Meadow Lane, then down Clear Meadow Lane (Wal-Mart Area)
5.	12” Water Line (by Developer) from Bunker Hill to Rosewood Lane
6.	12” Water Line (by Developer) from Hudson Drive to West Creek Lane
7.	12” Water Line (by Developer) from Clear Meadow Lane to Maxwell Creek Road
8.	12” Water Line (by Developer) from Canyon Crest Drive to Maxwell Creek Road at Tracey Lane
9.	12” Water Line connection (by Developer) from Ranch Road northward 2,500 l.f.
10.	12” Water Line from Miles Road, south of PGBT looped to Pleasant Valley Drive
11.	12” Water Line from Pump Station along Pleasant Valley Drive to proposed Elevated Water Tank
12.	Proposed 1.25 MG Elevated Water Tank
13.	16” Water Line from the proposed 1.25 MG Elevated Water Tank along Pleasant Valley Drive
14.	18” Water Line along Sachse Road from Pump Station to Merritt Road
15.	16” Water Line along Merritt Road from Sachse Road to Pleasant Valley
16.	12” Water Line in Blackburn Drive from Abilene Street to Dewitt Street
17.	12” Water Line (by Developer) from Rosewood to Merritt Road
18.	8” Water Line (by Developer) from Hunters Ridge to Merritt Road

Sanitary Sewer

1.	Rehab of existing Merritt Road lift station & existing Sachse Road lift station.
2.	Line "G" - Future aerial crossing for 24" trunk line and meter station to Garland.
3.	Future lift station in southeast Sachse.
4.	Line "A" - Future 24" trunk line from Sachse Road to southeast lift station.
5.	Line "G" - Future 24" trunk line from Garland interceptor line northward under George Bush Turnpike and eastward along north side of George Bush Turnpike.
6.	Future 20" force main from future southeast lift station westward along creek and north side of George Bush Turnpike.
7.	Line "B" - Future 10" trunk line from Lift Station north westward along creek to Willow Lake.
8.	Future 8" branch lines connecting to Line "A" - 24" trunk line. (7 branch lines in southeast Sachse).
9.	Future 8" branch lines connecting to Line "B" - 10" trunk line. (5 branch lines in southeast Sachse).
10.	Line "C" - Future 12" sewer line from north side of George Bush Turnpike eastward along creek to proposed southeast lift station.
11.	Future 8" sewer line along north side of George Bush Turnpike.
12.	Future 8" branch line along south side and crossing to the north of George Bush Turnpike.
13.	Future 8" branch line from 12" trunk line crossing creek north of George Bush Turnpike.
14.	Future 8" branch line south of George Bush Turnpike from 24" trunk line eastward along church property.
15.	Line "F" - Future 30" trunk line from existing Garland meter station eastward along Bunker Hill Road and northward along Miles Road.
16.	Line "E" - Future 10" sewer line from 24" trunk line to Garland along southwest city limits line of Sachse.
17.	Future 8" branch line running on west side of Heritage Park from existing 18" trunk line south of Sachse Elementary School.
18.	Line "D" - Future 10" trunk line from existing 12" trunk line on east side of Heritage Park going southward under George Bush Turnpike.
19.	2 future 8" trunk lines running in a east-west direction connecting to a 10" trunk line on the south side of George Bush Turnpike.
20.	Future 8" sewer line from Hunter's Ridge lift station eastward to 12" sewer line.
21.	Line "H" - Future 12" trunk line from Garland interceptor line northward to Murphy Road (Northwest Sachse).

Roads / Thoroughfares

1.	Merritt Road (Northern Heritage Cir. to Sachse Rd.)
2.	Sachse Road (SH 78 to City Limits)
3.	5th Street (SH 78 to Sachse Rd.)
4.	Merritt Road (City Limits to PGBT)
5.	Merritt Road (PGBT to Northern Heritage Circle Intersection)
6.	Ranch Road (Dewitt St. to Clearmeadow Ln.)
7.	Maxwell Creek Road (Ranch Rd. to Bridge)
8.	Blackburn Rd./ Ingram Rd. (Murphy Rd. to Dewitt Rd.)
9.	Pleasant Valley Road (Merritt Rd. to City Limits)
10.	Hudson Drive (Miles Rd. Area to Merritt Rd. Area)
11.	Hudson Drive (Sewell Dr. to future extension of Rosewood Ln.)
12.	Rosewood Lane (Existing Rosewood Ln. to Bunker Hill Rd.)
13.	Pleasant Valley Road (Miles Rd. to Pleasant Valley Rd. Curve)
14.	Pleasant Valley Road (Curve in Pleasant Valley Rd. to Merritt Rd.)
15.	Hooper Road (SH 78 to Bailey Rd.)
16.	Bailey Road (Hooper Rd. to Sachse Rd.)
17.	Ben Davis Street (SH 78 to Dewitt Rd.)
18.	Dewitt Road (Ben Davis Rd. to 3rd St.)
19.	3rd Street (SH 78 to Dewitt Rd.)
20.	4th Street (SH 78 to Dewitt Rd.)
21.	3rd Street (SH 78 to Sachse Rd.)
22.	3rd Street (Dewitt Rd. to Blackburn Rd.)
23.	Williford Road (SH 78 to Bailey Rd.)
24.	Ben Road (Existing Ben Rd. to Pinnacle Oaks Dr.)
25.	Ben Road (Pleasant Valley Rd. to Existing Ben Rd.)
26.	Park Lane (SH 78 to Future Industrial Road)
27.	Future Cody Lane (Park St. to Future Road C)
28.	Future Road C (Cody Ln. to Ranch Rd.)
29.	Future Road A (PGBT Frontage Rd. to future Bunker Hill Rd.)
30.	Future Road A (Pleasant Valley Rd. to PGBT Frontage Road)
31.	Future Road B (Pleasant Valley Rd. to Sachse Rd.)
32.	Canyon Crest Lane (Clearmeadow Ln. to Cody Ln.)
33.	Canyon Crest Lane (Larkmeadow Tr. to McCreary Rd.)

2.0 POPULATION PROJECTIONS

Census reports show that Sachse's rate of growth has been fairy steady in recent years. However, between 1990 and 2000, the city almost doubled in population from 5,346 to 9,751. With a reported 2.8 persons per household by the 2010 census, Sachse had an estimated 6,972 occupied residential units, with an approximate population of 19,100. Ultimate residential build-out is projected to occur by 2020, with an estimated population of 25,024.

A number of public authorities have produced population estimates and projections for Texas communities. CobbFendley has researched and assembled information obtained from the Census Bureau, NCTCOG, TWDB and the City of Sachse staff.

NCTCOG has compiled a Year 2030 Regional Growth Forecast, which is a population and employment forecast covering nine local counties (including Sachse located in both Collin and Dallas Counties). The Forecast was approved by the NCTCOG Executive Board on February 24, 2011, and it reports a City of Sachse population of 20,329 for the year 2010 (slightly higher than the census report), and 25,298 for the year 2030; which translates into a projected annual growth rate of approximately 1.10 percent.

NCTCOG Population Forecast				
	2010 (Census Data)	**2010 (NCTCOG)**	**2020 (NCTCOG)**	**2030 (NCTCOG)**
City of Sachse	19,100	20,329	25,024	25,298

The TWDB has also developed projections for municipalities as part of the statewide water-planning program. The TWDB projections are based upon historical population and anticipated number of water permits. The TWDB forecasted annual growth for the city is shown below:

TWDB Forecast of Average Population Growth				
	2000-2010	**2010-2020**	**2020-2030**	**2030-2040**
City of Sachse	7.75%	1.43%	1.31%	0%

The projections by both NCTCOG and TWBD appear to be lower than the growth rates the City has experienced in recent years, due to the explosive growth in the 1990's. Continuing development interest in the Sachse area, especially along the major corridors, provides reason to believe that the City will continue to grow at these projected rates, both in commercial and residential areas. Section 2 examines the City's current state of development in terms of land use, and presents projected areas of residential and commercial growth. Based on these growth projections, a population of approximately 22,927 people is calculated for the year 2021 based

on projected developed residential acreages, combined with the Census-reported average of 2.80 people per household.

3.0 LAND USE PROJECTIONS

The City of Sachse has established current and future land uses as well as zoning classifications. CobbFendley used the City's existing maps and drainage basins (areas) to establish design criteria for this study. A large portion of future growth is anticipated to be a mixture of commercial and business park development, with additional residential developments projected to occur between the President George Bush Turnpike and SH 78, as well as north of SH 78. Additional industrial development along SH 78 is anticipated, as well as along Elm Grove Road which is located near the southeast limits of the City's ETJ. These growth projections are reflected on the City's land use map in Exhibit 3-1.

4.0 WATER MASTER PLAN

4.1 General

The City of Sachse's water system consists of water lines ranging in size from 6 inch to 18 inch, two elevated water storage tanks, four ground storage tank and two pump stations. The City of Sachse currently purchases their water supply from NTMWD at a maximum rate of 9.2 MGD. In order to meet future demands, the City will have to modify their existing contract in order to purchase additional water supply.

4.2 Existing Water System

Sachse's existing water system utilizes PVC, ductile iron and cast iron pipe material. Also included are two pump stations, two elevated water storage tanks and four ground storage tanks.

Pump Stations:

- Maxwell Creek Pump Station (located in northern point of City)
  Three Pumps @ 500 gpm and one Pump @ 1,000 GPM)

- Public Works Pump Station (eastern portion of City behind public works building)
  Two Pumps @ 3,200 gpm

Elevated Water Storage Tanks:

- 750,000 gallon elevated tank (located at the Public Works facility)

- 150,000 gallon elevated tank (located at 5th Street & Sachse Road)

Ground Storage Tanks:

- 3,000,000 gallon ground storage tank (located at Public Works facility)
- 2,000,000 gallon ground storage tank (located at Public Works facility)
- 500,000 gallon ground storage tank (located at Maxwell Creek Pump Station)
- 500,000 gallon ground storage tank (located at Maxwell Creek Pump Station)

4.3 Population and Service Connections

Per City provided information, the 2010 City population is 19,100. Based on NCTCOG population projections, the 2030 estimated population is 25,298. For the purpose of this analysis, the City is projected to achieve system build out in the year 2030.

City of Sachse Population (From NCTCOG)						
1990	**2000**	**2009**	**2010**	**2011**	**2020**	**2030**
5,346	9,751	18,750	19,100	20,329	25,024	25,298
Notes: Population Projections from NCTCOG						

With the 2010 population of 19,100 and 7,536 service connections, the City is averaging 2.53 residences per connection. Using the NCTCOG 2030 estimated build out population of 25,298 and the average 2.53 residents per connection, the estimated number of 2030 build out residential connections is 10,000. The City is projected to see a 32% population increase between 2010 and 2030, therefore for estimating purposes the number of commercial and irrigation connections were increased by 32%.

4.4 Required Storage

Per TCEQ Chapter 290.45 (b) (2) (E), the City must have a total minimum water storage capacity of 200 gallons per connection. Being conservative and using all 7,536 connections, the City is currently required to have 1,507,200 gallons of total storage. The City currently has 6,900,000 of combined ground and elevated storage and therefore is in compliance.

The population and build out projections, being conservative and including all connections, indicate that the City will require 2,000,000 gallons of total storage by the

year 2030. The current total storage capacity of 6,900,000 will meet the future storage requirements.

Per Chapter 290.45 (b) (2) (G), the City must have a total minimum elevated water storage capacity of 100 gallons per connection. Being conservative and using all 7,536 connections, the City is required to have 753,600 gallons of elevated storage. The City currently has 900,000 gallons of elevated storage and therefore is in compliance.

The population and build out projections, being conservative and including all connections, indicate that the City will require 999,900 gallons of elevated storage by the year 2030. The current total elevated storage capacity of 900,000 will not meet the minimum future storage requirements. If we only include the residential and commercial connections, 910,000 gallons of elevated storage will be required and thus the current 900,000 gallons of elevated storage will not meet future build out requirements. To meet future elevated storage requirements, the addition of an elevated water storage tank will be required.

EXISITNG STORAGE FACILITIES		
Maxwell Creek Pump Station		
Tanks	**Type**	**Storage**
# 1	Ground	500,000
# 2	Ground	500,000
Public Works Pump Station		
# 1	Ground	3,000,000
# 2	Ground	2,000,000
# 3	Elevated	750,000
5th Street		
# 1	Elevated	150,000

Type	Existing	TCEQ Requirement 2011	TCEQ Requirement 2030
Ground	6,000,000	-----	-----
Elevated	900,000	753,600	1,000,000
Total	6,900,000	1,507,200	2,000,000

4.5 Demand Rates

Per City provided information, the historic demand rates are shown below.

HISTORIC DEMAND RATES		
Average Daily	2,900,000	Gallons/Day
Max Day	7,362,000	Gallons/Day
Peak Hour	306,000	Gallons/Hour

Per TCEQ 290.38 (41), in the absence of historic data, the maximum daily demand can be estimated to be 2.4 x the average daily demand. This comparison shows that the City's maximum daily demand is slightly higher than the estimated TCEQ calculation method. For this analysis, the historic value will be used.

MAXIMUM DAILY DEMAND		
Historic Value	7,362,000	Gallons / Day
TCEQ 2.4 x AVD	6,960,000	Gallons / Day

Per TCEQ 290.38 (56), in the absence of historic data, the peak hourly demand can be estimated to be 1.25 x the maximum daily demand. This comparison shows that the City's peak hourly demand is slightly lower than the estimated TCEQ calculation method. For this analysis, the historic value will be used.

PEAK HOUR DEMAND		
Historic Value	306,000	Gallons / Hour
TCEQ 1.25 x Max Daily	383,438	Gallons / Hour

TCEQ recommends using historic data when available but gives acceptable calculations in the absence of historic data. The above comparisons were made to verify that the City's historic data was within the acceptable range to TCEQ.

Utilizing the NCTCOG population projections and the associated projected service connections, a linear projection may be made for the 2030 demand rates.

REQUIRED DEMAND / SUPPLY		
2011 Average Daily	2,900,000	Gallons / Day
2011 Max Daily	7,362,000	Gallons / Day
2011 Peak Hour	306,000	Gallons / Hour
2030 Average Daily	3,828,800	Gallons / Day
2030 Max Daily	9,917,840	Gallons / Day
2030 Peak Hour	403,920	Gallons / Hour

2030 Build out Daily Flow Calculations
2011 ADF = 2,900,000 gallons for 7,536 connections = 385 gallons / connection
2030 ADF = 385 gallons / connection x 9,999 connections = 3,849,615 gallons
2011 MDF= 7,362,000 gallons for 7,536 Connections = 977 gallons / per connection
2030 MDF= 977 gallons / connection x 9,999 connections = 9,769,023 gallons
2011 PH = 306,000 for 7,536 connections = 41 gallons / connections
2030 PH = 41 gallons / connection x 9,999 connections = 409,959 gallons

4.6 Pumping Requirements

The City currently has two water pump stations with a combined capacity of 8,900 GPM and 4,700 GPM with the largest pump out of service at each station. An additional 3,200 GPM pump will be installed at the Public Works location in 2012.

PUBLIC WORKS PUMP STATION		
Pumps	**HP**	**Capacity**
# 1	200	3,200 gpm
# 2	200	3,200 gpm
# 3 (2012)	200	3,200 gpm
# 4	-----	-----
# 5	-----	-----
MAXWELL CREEK PUMP STATION		
Pumps	**HP**	**Capacity**
# 1	40	500 gpm
# 2	40	500 gpm
# 3	40	500 gpm
# 4	75	1,000 gpm

Per TCEQ Chapter 290.45 (b) (2) (F), for an elevated storage capacity of 100 gallons per connection, the system must have service pump capacity that provides each pump station with 2 or more pumps that have a total capacity of 2.0 GPM per connection or that have a total capacity of at least 1,000 GPM and the ability to meet peak hourly demands with the largest pump out of service, whichever is less. As the table below shows, the City is currently not meeting the TCEQ pumping requirements.

TCEQ Pumping Requirements							
100 GALLONS PER CONNECTION ELEVATED STORAGE							
		Option 1 (2 gpm / Connection)			Option 2 (1000 gpm & Peak Hourly)		
Pump Capacity	**Current**	**2011**	**2012**	**2030 Buildout**	**2011**	**2012**	**2030 Buildout**
Total	8,900	15,072	-----	19,895	-----	-----	-----
with Largest Pump Out	4,700	-----	-----	-----	5,113	-----	6,749
Total with New Pump Installation in 2012	12,100	-----	24,200	31,944	-----	-----	-----
2012 with Largest Pump Out	7,900	-----	-----	-----	5,113	-----	6,749

Also per TCEQ Chapter 290.45 (b) (2) (F), for an elevated storage capacity of 200 gallons per connection, the system must have a minimum pumping capacity of 0.6 gpm per connection. As shown in the table below, the City currently meets the pumping requirement of this option, but as shown earlier the 200 GPM per connection elevated storage is not being met.

TCEQ Pumping Requirements				
200 GALLONS PER CONNECTION ELEVATED STORAGE				
	Required (0.6 gpm / Connection)			
Pump Capacity	**2011**	**2012**	**Current**	**2030 Buildout**
Total	8,900	12,100	4,522	5,969
with Largest Pump Out	4,700	7,900	-----	-----

4.7 NTMWD Water Supply

Per information provided by the City of Sachse, the available water supply from NTMWD is listed in the table below. There is currently enough pumping capacity to meet the City's Maximum Daily Demand for 2011 and the final build out in 2030. The City will have to modify their contract with NTMWD as development proceeds to procure the additional water supply.

PUMPING CAPACITY AT SUPPLY POINTS				
	2010		2030	
Location	**Available**	**Required**	**Available**	**Required**
Maxwell Creek Pump Station	3.5 MGD	----	3.5 MGD	----
Public Works Pump Station	4.5 MGD	----	7.2 MGD	----
Total Supply	**8.0 MGD**	**7.4 MGD**	**10.7 MGD**	**9.9 MGD**
Max 9.2 MGD Contracted Delivery from NTMWD				

4.8 Recommendations to Achieve Compliance

The table below is a summary of the current and 2030 compliance status of the City's water system with TCEQ regulation.

TCEQ COMPLIANCE STATUS		
	2011	**2030**
Supply Contract	Yes	No
Supply Capacity	Yes	Yes
Total Storage	Yes	Yes
100 GPC Elevated Storage	Yes	No
Pumping Capacity	No	No
200 GPC Elevated Storage	No	Yes
Pumping Capacity	Yes	Yes

The City will be required to make additions and modifications to their system to bring it into TCEQ compliance. The additions and modifications will also bring the City into compliance for the 2030 build out. There are two options to achieve system compliance.

Option 1

Current: Increase Pumping Capacity by 6,172 GPM; Add two 3,200 GPM pumps by build-out;

Build out: Construct two (2) 500,000 gallon elevated water storage tanks

Cost: $2,000,000

Option 2

Current & Build Out: Construct one (1) 1,250,000 gallon elevated water storage tank

Cost: $1,700,000

4.9 Opinion of Probable Cost

The opinions of probable costs presented here are preliminary. Final costs may vary. These costs include a 10% contingency factor and allowance for design fees (12-15%). The costs do not include allowances for legal or financing costs. Those costs are addressed in the impact fee calculation. The probable costs are based on current-year dollars and average unit costs. The cost of the 10-year water system CIP is estimated to be $11,628,770. A project cost breakdown is shown in Table 4-1. Sachse may re-prioritize these projects based on fund availability and other factors.

5.0 SANITARY SEWER MASTER PLAN

5.1 General

The City of Sachse's sanitary sewer collection system is made up of a network of gravity lines, force mains and lift stations flowing through two metering stations and piped to the City of Garland for treatment. As mentioned in Section 3, the City has been divided into 6 drainage basins (areas) for the purpose of this study. The basins include 4 existing areas (1, 2, 3 and 4) and 2 future areas (2B and 2C). These areas are defined by existing collection system infrastructure and the City's topography.

The surface topography of Sachse is such that 5 of the 6 areas generally flow to the east-southeast. Area 4 flows south-westward under Murphy Road to an existing City of Garland metering station. The other meter station is located off Bunker Hill Road, near Miles Road. Based on information obtained from the City of Sachse and the projected land use data, the existing sanitary sewer system was evaluated for current and projected 2021 conditions. It was through this analysis that candidate projects for improving the sanitary sewer collection system were identified for inclusion in this CIP.

5.2 Existing Sanitary Sewer System

The City does not own or operate a wastewater treatment plant and has a long term contract with the City of Garland for the treatment of all sewage. Sachse's sewage collection system consists of PVC and clay tile pipes ranging in size from 6-inch to 30-inch. In addition, the City owns five lift stations, all of which are currently in operation and range in size from 200 GPM to 4,400 GPM. The lift stations and their capacities are shown in Table 5-1, and were evaluated under existing and projected 2021 conditions.

Exhibit 5-1A is a layout of the City's existing sanitary sewer system, including lift stations and areas. Exhibit 5-2 shows the sanitary system, including lift stations, with existing and future areas. The major sanitary sewer trunk lines are listed in Table 5-4, including the areas, associated lift stations, accumulated flows and pipe capacities. The analysis shows inadequacies in line sizes to serve existing flows.

5.3 Design Criteria

The proposed sewage collection system was determined from land use projections. Typical residential criteria were 4 lots per acre, while some residential areas are denser with 5 and 6 lots per acre. Conversely, some areas are projected at 1and 2 lots per acre.

TCEQ criteria were used wherever applicable. Residential and school flows were applied where necessary (100 GPD/capita residential and 15-20 GPD/student for school flows).

For peaking factors, the ASCE Curve "A" design parameter was applied.

For inflow/infiltration, 400 gallons/acre/day were used. Population per unit or lot is 3.0 persons (based on current data provided by City of Sachse: population/residences).

Numerous spreadsheets were employed to determine flows and the resulting pipe sizes. In evaluating the existing gravity sewers, maximum capacities were calculated for pipes flowing full at not less than 2 feet per second based on Manning's formula with an assumed "n" factor of 0.013.

5.4 Existing Requirements

An analysis of the existing primary trunk lines was performed (Exhibit 5-4A). Two of the lines were found to be inadequate to serve existing and future demands.

Further analyses show that three of the five existing lift stations are inadequate to serve the existing demands, as shown in Table 5-1. Peak flows to these stations exceed their design capacity, and City staff has indicated that one of the stations periodically overflows during wet weather conditions.

5.5 Proposed Improvements 2021

5.5.1 Demand Requirements

The sanitary sewer requirements for 2021 were determined from land use and density projections for the study period. The system was evaluated under these demands and capital improvement projects were identified. The proposed projects are designed with capacity for the calculated 2021 flows, as well as flows for continued growth after 2021, but within the 40-year life expectancy of the projects. Treatment costs for sewer were not factored in to this study, or in the projection of capital improvement costs.

CobbFendley evaluated the sanitary sewer system, including all five lift stations and primary trunk lines, to determine if the current infrastructure was adequate to service existing areas now and at future build-out. Three lift stations and two trunk lines were determined to be undersized to accommodate current flows.

Seventy percent (70%) of the City's sewage flow is handled by the Merritt Road Lift Station. Existing flows are calculated at 5,622 GPM with an estimated 7,604 GPM at build out. This lift station is currently designed to handle 3,300 GPM firm pumping capacity. TCEQ

requires the station to handle existing flows with one pump out of service. Two other lift stations are also exceeding pumping capacity. The Sachse Road Lift Station currently handles twenty five percent (25%) of the City's flow and the Hunter's Ridge Lift Station is responsible for two and a half percent (2.5%) of the flow. Designed to handle 1,650 GPM, existing flows at the Sachse Road Lift Station exceed 2,100 GPM. The Hunter's Ridge Lift Station, located at Emerson Way and Gateway Court, currently exceeds its designed flow by 80 GPM.

All sewage from the Sachse Road Lift Station currently flows to the Merritt Road Lift Station. A new lift station in the southeast section of the City is proposed on Eastview Drive. Once this lift station is built all of the flow from the Sachse Road Lift Station will be sent to this new station, relieving 25% of the flow from the Merritt Road Lift Station. The Sachse Road Lift Station will ultimately be eliminated from the system. Once eliminated, all flows in Basin 2B will be sent to the future lift station through a future 24" trunk line as shown in Exhibit 5-3A. From the new lift station, a future 20" force main will carry flows to a future 24" trunk line into the proposed third metering station for the City of Garland. Additional branch and trunk lines will also be constructed in this area to accommodate future growth and development. An overview of existing and future sanitary sewer lines to the future southeast lift station can be found in Table 5-3.

The 27" sewer trunk line that connects to the Merritt Road Lift Station is not of adequate capacity to handle flows, and is identified as Line 1 on Exhibit 5-4A. Total flow is calculated at 7.1 MGD with a flow of 11.01 CFS. The pipe capacity is only able to handle 8.2 CFS on the existing slope. In addition, the 12" trunk line, identified as Line 5 on Exhibit 5-4A, also does not meet flow requirements. Total flow is calculated at 1.9 MGD with a flow of 3.02 CFS. Pipe capacity can handle 1.5 MGD or 2.4 CFS based on the existing slope.

Exhibit 5-5A shows an existing pipe size analysis for ultimate design flows. Several of these lines were determined to be of inadequate size to handle future flows. A breakdown of the calculations can be found in Table 5-5.

Exhibit 5-6 shows existing and projected flows specifically to the 30" PVC under Bunker Hill Road for total build-out. Basins 1, 2A and 3 are incorporated into this area. Table 5-6 breaks down areas 1, 2A and 3, and existing and future flows to this 30" PVC.

Exhibits 5-7A & 5-7B show areas with existing infrastructure at build-out with no improvements made to the system. For the 30" PVC at Bunker Hill to handle the flow for the entire City, the line must have a slope of 0.35%. Current flows for the City to the 30" PVC are 15 MGD or 23.2 CFS. Pipe capacity is designed to handle 15.7 MGD or 24.3 CFS.

The existing 8" sanitary sewer connection to the City of Garland (Murphy Road Location) is not of adequate capacity to handle build-out flows. The existing line has been constructed on a 0.0060 ft/ft grade, which corresponds to a capacity of 0.61 MGD. The projected ultimate flows for this line are expected to be 1.73 MGD. CobbFendley recommends increasing the size of this line from an 8" sanitary sewer to a 12" sanitary sewer line with the same slope. This will increase the capacity of the line to from 0.61 MGD to 1.79 MGD.

One of the goals of this study was to eliminate at least one of the 3 proposed lift stations suggested in the 2005 Sewer CIP study. By constructing an additional sewer line to Garland, Sachse can eliminate two of the proposed lift stations.

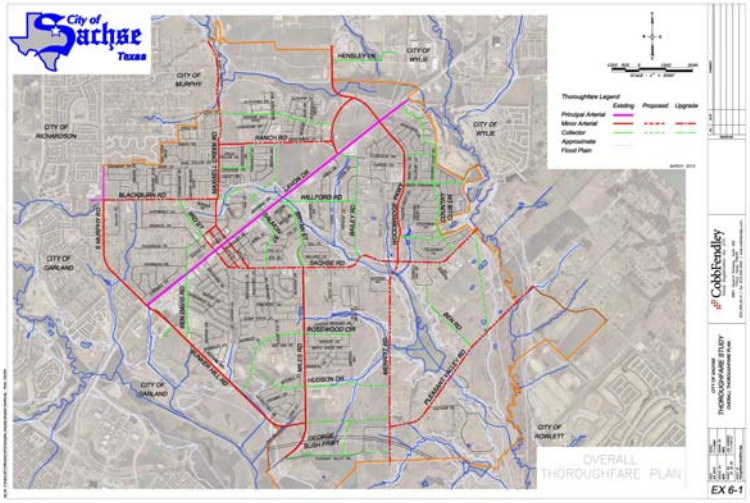
Two additional benefits, associated with a new connection to the City of Garland and removal of a proposed lift station, are the impact to the development along the George Bush Turnpike and the capacity of the existing 30" pipe under Bunker Hill Road. The new Garland Connection would help encourage the development along George Bush Turnpike, by eliminating the sanitary sewer improvements required to add a lift station and force main to the Bunker Hill Line. By diverting these flows to the new connection, the existing pipe under Bunker Hill Road will be of adequate capacity to handle ultimate build-out. If the additional connection is not added, this line would have to be upgraded to a 36" diameter pipe in order to handle ultimate flows.

Additionally, we propose to eliminate the Hunter's Ridge and Sachse Road Lift Stations. At ultimate build out, Sachse should have four lift stations including the proposed southeast lift station and the elimination of the Sachse Road and Hunter's Ridge Lift Stations.

5.6 Opinion of Probable Cost

The opinions of probable costs presented here are preliminary and final costs may vary. These costs include a 10% contingency factor and allowance for design fees (12-15%). The costs do not include allowances for legal or financing costs. Those costs are addressed in the impact fee calculation. The probable costs are based on current-year dollars and average unit costs. The cost of the 10-year sanitary sewer system CIP is estimated to be $13,339,000. A project cost breakdown is shown in Table 5-2. Sachse may re-prioritize these projects based on fund availability and other factors.

6.0 THOROUGHFARE MASTER PLAN



The City of Sachse's Thoroughfare System currently consists of Principal Arterials, Minor Arterials and Collectors. The existing network of streets is a combination of asphalt and concrete pavement sections utilizing both underground storm sewer and open surface drainage.

6.1 General

The purpose of the Thoroughfare Master Plan is to provide guidelines for the development and implementation of needed transportation and traffic improvement projects. These are intended to accommodate both existing and expected traffic demands for future years. In addition, the proposed Transportation improvements should allow for both improved traffic flow and increased pedestrian safety.

6.2 Existing Thoroughfare System

The majority of streets in the existing thoroughfare system are predominately minor arterials and collectors. Most of the minor arterials tie into State Highway 78, as it is central to the existing population. The majority of commercial development has occurred along State Highway 78, the only 6-lane principal arterial in the City.

In December 2011, the Eastern section of President George Bush Turnpike (PGBT) opened to the public. This section extends from State Highway 78, east to IH 30. Typically, increased commercial development follows these types of major infrastructure improvements. As a result, Sachse anticipates a second commercial corridor to develop along this alignment. The City's existing thoroughfare infrastructure will not handle the anticipated traffic volumes to support this new development.

6.3 Design Criteria

All thoroughfare facilities should be designed in accordance with current AASHTO and NCTCOG standards. As part of the thoroughfare update, CobbFendley utilized existing thoroughfare classification and mapping information, as provided by the City of Sachse. CobbFendley has made generalizations based on traffic count analyses as also provided by the City of Sachse.

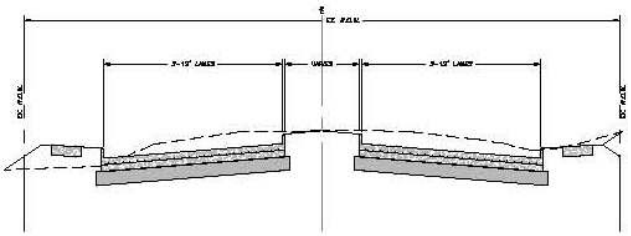
Traffic operations are described in terms of "level of service" ("LOS"), which is a description of the highway user's freedom to travel at the desired speed. Any discussions of LOS must be precluded with a definition of two types of traffic facilities. These are:

- Uninterrupted flow facilities which have no fixed elements external to the traffic stream, such as traffic signals or stop signs, to stop the traffic flow.
- Interrupted flow facilities have fixed elements that periodically interrupt the traffic flow.

The City of Sachse provided CobbFendley with summary traffic count information for a Level of Service verification analysis. The traffic count locations are specified in Exhibit 6-1. The results of this analysis are contained within Table 6-1.

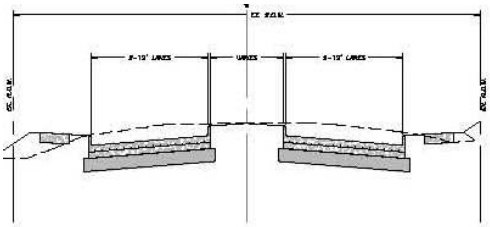
6.3.1 Principal Arterial

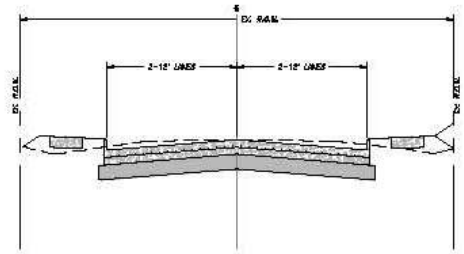
Principal Arterials are the City of Sachse's largest thoroughfare section. These roadways are generally multi-lane (4 or 6 lanes) with median dividers that serve the function of controlling access, separating opposing traffic, movements, and providing area for storage of left turning vehicles. Sachse currently has one principal arterial (SH 78) which is owned and operated by the Texas Department of Transportation.



6.3.2 Minor Arterial

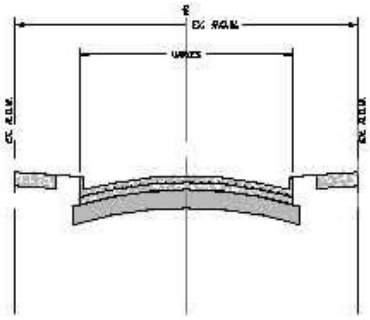
The next level of classification is Minor Arterial roadways. Minor Arterials are four-lane thoroughfares that facilitate the transfer of vehicles from Collectors to Principal Arterials. These sections can be either divided or undivided depending on the traffic volume and aesthetic preferences. Divided Minor Arterials require wider right-of-ways in order to accommodate medians and left turn-lanes.





6.3.3 Collector

Collectors are smaller, two-lane undivided roads that typically collect traffic from neighborhood streets and feed into Minor Arterials. These streets include subdivision entrances, access to business parks, and those roads required for circulation within a development. These are typically low speed and lower volume roadways.



6.4 Proposed Improvements

Proposed thoroughfare improvements for the City of Sachse include upgrades to the existing facilities that will accommodate future traffic flow. The most important of these upgrades will be the widening of existing and the construction of new streets that tie into the President George Bush Turnpike. This will allow for increased movement between local residents and one of the major thoroughfares for the DFW metroplex, also encouraging development along the commercial corridor.

Another area of focus for the thoroughfare plan will be to construct Minor Arterials along SH 78. The addition of these roadways will improve commercial development along this corridor and provide additional access for local residents.

A third area of importance is the build out of Sachse Road. This road is currently a two-lane asphalt road that provides east/west movements between SH 78 and the Minor Arterials that connect to President George Bush Turnpike. By widening this road to a four-lane divided section (with the potential for six-lane divided in the future), this will help alleviate pass-through traffic in and around existing subdivisions.

With the opening of the President George Bush Turnpike current traffic patterns will change over the next year as commuters alter their daily routes for more efficient access to the toll way. These changes will require new and updated traffic counts in order to redefine roadway types to facilitate the change in traffic patterns.

Exhibit 6-1 details the proposed improvements that include upgrades to existing facilities as well as proposed Minor Arterials and Collectors. Table 6-1 includes the facility type, project length, proposed improvements and estimated construction costs. The City of Sachse may re-prioritize these projects based on fund availability and other factors.

6.5 Opinion of Probable Cost

Opinions of probable cost have been calculated based on current year dollars without the benefit of a detailed preliminary engineering study for each project. The summary cost information was determined by utilizing current unit construction prices for similar items in the region. These cost estimates do not include geotechnical engineering services or franchise utility relocations. Detailed project cost information can be found in Table 6-1. The cost of the 10-year thoroughfare system CIP is estimated to be $131,322,800.

7.0 MAXIMUM IMPACT FEE DETERMINATION

7.1 Basis for Impact Fee Compliance

The maximum impact fee determination has been prepared as set forth in Local Government Code, Title 12, Planning and Development, Chapter 395, et seq., Financing Capital Improvements Required by New Development in Municipalities, Counties, and Certain Other Local Governments, and Its Successors.

7.2 Technical Basis for Impact Fee Calculations

7.2.1 Capital Improvements Plan Requirements

The CIP must contain specific enumeration of the following:

- A description of the existing capital improvements within the service area and improvements necessary to meet requirements to serve existing demand.
- An analysis of capacity, necessitated by new development within the service area commitments and level of current usage.
- A description of capital improvements or facility expansions and their costs necessitated by new development in the service area based on approved land use assumptions.
- A table establishing the quantity of use of a service unit for each category of capital improvement and an equivalency establishing the ratio of a service unit to various types of land use.
- The number of projected service units necessitated by new development within the service area based on approved land use assumptions.
- The projected demand for capital improvements required for new service units projected over a period not to exceed 10 years.
- A plan for awarding a credit for the portion of ad valorem tax and utility service revenues generated by new development during the program period, or a credit equal to 50 percent of the total projected cost of implementing the capital improvements plan.

7.2.2 Service Area Definitions

The service area designation defines the area of growth, allows an estimate of service demand arising from the growth within the area, and permits the development of a capital improvements plan to meet service needs. The law provides that, in lieu of adopting land use assumptions for each service area, a

political subdivision may adopt system-wide land use assumptions for the purpose of imposing impact fees. A political subdivision is not required to adopt additional land use assumptions for smaller service areas for water supply, treatment and distribution, or wastewater collection and treatment facilities. The Sachse city limits and ETJ are used for the derivation of the maximum impact fees for water and sanitary sewer facilities.

For roadway facilities, the Local Government Code specifies that the service area is limited to the corporate boundaries of the political subdivision and shall not exceed six miles. The corporate boundary for the City falls completely within the six mile radius. Therefore, the roadway facilities will have only one service area.

7.2.3 Land Use Assumptions

Population and Land Use Assumptions were discussed in Sections 2 and 3 of this report. Population projections in Section 2 show projected growth that is consistent with recent developer interest in the area and with recent growth trends. These projections are also directly related to the Land Use Assumptions as shown on Exhibit 3-1. The City of Sachse is currently 76% developed, as indicated in the breakdown below.

Developed Land Area	3,850.7 Acres
Undeveloped Land Area	1,458.1 Acres
Flood Plain Land Area	879.5 Acres
Total Land Area	6,188.3 Acres
Approximate Non-Residential Development	302,410 Sq. Ft.

7.2.4 Water and Sanitary Sewer Usage and Measurement

The City and ETJ water and sanitary sewer projections were based on current usage and population forecasts. These requirements are expressed in terms of average daily flow and peak hourly flow. Also considered were pumping capacity, pumping requirements, existing storage capacity, TCEQ requirements, existing line sizes, and lift station capacities.

EDU equivalencies for various meter types and sizes are presented below. This EDU equivalency system is recommended for use in assessing impact fees.

Meter Type	Meter Size	Continuous Duty Maximum Rate (gpm)	Ratio to 5/8" Meter (Equiv. # of EDU's)
Simple	5/8" x 3/4"	10	1.0
Simple - Residential	3/4"	15	1.0
Simple - Commercial	3/4"	15	1.5
Simple	1"	25	2.5
Simple	1 1/2"	50	5.0
Simple	2"	80	8.0
Compound	2"	80	8.0
Turbine	2"	100	10.0
Compound	3"	160	16.0
Turbine	3"	240	24.0
Compound	4"	250	25.0
Turbine	4"	420	42.0
Compound	6"	500	50.0
Turbine	6"	920	92.0
Compound	8"	800	80.0
Turbine	8"	1,600	160.0
Compound	10"	1,150	115.0
Turbine	10"	2,500	250.0
Turbine	12"	3,300	330.0

SOURCE: AWWA Standards C700, C701, C702, C703

Note: The City of Sachse is setting a standard residential meter to a 3/4" Meter Size. For the purpose of this study, a 3/4" residential meter is set to be the equivalent of 1 EDU

This study presents water and sanitary sewer impact fees on an EDU basis, which is defined as consumption by a typical single-family household with a 5/8" water meter. The City of Sachse is moving away from the 5/8" water meters to a standard residential meter of 3/4". For this reason, a 3/4" residential meter is also considered 1 EDU. A ten month history was provided by Sachse for residential water consumption. Based on this information, the average usage per connection was found to be 263 gallons. This ten month average includes summer months with Stage Three Water Restrictions in place. These water restrictions would limit the amount of water consumed per residential connection. Therefore, the usage per connection was increased to a standard of 280 gallons. For sanitary sewer, actual flows were compared to water use and a sanitary sewer EDU was determined to be about 75 percent of water consumption, so an equivalent 210 GPD is used based a water consumption rate of 280 GPD. Water and

sanitary sewer usage by land use type is found in tables 7-1 and 7-2. The corresponding EDU equivalents are found in the table below.

Land Use	EDU/Acre	2011		2021	
		Acres	EDU's *	Acres	EDU's *
Residential (2 lots per acre)	2.0	122.00	244.00	126.05	252.10
Residential (4 lots per acre)	4.0	1,224.40	4,897.60	1,371.00	5,484.01
Residential (5 lots per acre)	5.0	486.70	2,433.50	582.97	2,914.85
Residential (6 lots per acre)	6.0	355.60	2,133.60	355.60	2,133.60
Residential (large lots acre plus)	1.0	1,125.90	1,125.90	1,143.10	1,143.10
Church	1.2	1.80	2.16	9.61	11.53
Commercial / Industrial	1.3	229.90	298.87	438.03	569.44
School / Semi-Public	1.3	202.70	263.51	228.15	296.59
Residential / Duplex	8.0	14.00	112.00	14.00	112.00
Multi-Family / Apartments	10.0	19.00	190.00	19.00	190.00
TOTALS		**3,782.00**	**11,701.14**	**4,287.51**	**13,107.22**

*1 EDU= 280.00 Gallons Per Day

**2021 Population Growth Projection 2.75% Based on NCTCOG Population Growth

7.2.5 Roadway Analysis and Measurement

Roadway demand and analysis is based off of “PM Peak Hour Vehicle-Miles”. Typically, the afternoon traffic requirements place the most demand on the roadway system. “PM Peak-Hour Vehicle-Miles” are based on the Trip Generation information supplied by the ITE Trip Generation Manual, latest edition and the average trip length within the City. Based on information provided by Sachse, traffic demand was calculated for residential and non-residential development. A composite trip generation value was utilized for the non-residential development. The results of this analysis are shown in Exhibit 7-3.

7.2.6 Projected Water and Sanitary Sewer Demands

Demand for the service area within the next 10 years (2011-2021) was determined using the City of Sachse’s Land Use Assumptions in conjunction with regional population forecasts and the estimated demand per acre for each land use type. As required by Section 395.014 of the Local Government Code, projected demands for capital improvements required by new service units are projected over a 10-year period in this study. These calculations have been

utilized in calculating both the facility sizes and applicable impact fee relative to the projects.

7.2.7 Projected Roadway Demands

As with the water and sanitary sewer demands, roadway demand was determined using the City's Land Use Assumptions and Regional population forecasts. Due to the opening of the PGBT, growth for the City is expected to increase over the next ten years and slowly taper off until ultimate build-out is complete. The results of these calculations are shown in Table 7-8.

7.3 Impact Fee Determination Methodology

7.3.1 Components of Capital Cost of Service

For purposes of this study, water and sanitary sewer costs are defined for a common measurement of capacity and demand; that service unit of measurement is an EDU. Each service unit has a capital cost associated with the comprehensive group of facilities required to provide service (transmission, pumpage, storage, etc.). This value is the Construction Cost of Service.

Similarly, roadway costs are defined for a common measurement of capacity and demand; that service unit of measurement is vehicle mile per development unit. This service unit has a capital cost associated with the comprehensive group of facilities required to provide service (paving, drainage, sidewalks, traffic signals, etc.) This value is the Construction Cost of Service.

If a facility is funded through bonding, however, two additional costs are incurred for each service unit of demand for consideration in impact fee calculations: bonding costs and interest costs. Bonding costs or the costs related to selling bonds are statistically small (6% has been estimated for this study). On the other hand, interest costs can effectively double the cost of bonds, depending on the current interest rate and term of the bonds. For this study, an interest rate of 3.5% was utilized for these calculations.

7.4 Methods for Recovering Costs of Service

Generally speaking, costs can be financed through either the public sector or the private sector. Financing through the public sector is primarily accomplished by bonding projects and recovering costs through utility rates for water and sewer projects and tax revenue for roadway projects. Financing through the private sector occurs when a developer or builder contributes assets, either facilities or cash, and passes along this cost (including carrying and financing costs) to the ultimate user of the development. An impact fee is one mechanism for private financing.

As mentioned in Section 7.2.1, the CIP must include a plan for awarding credit either for tax and utility revenues generated by new customers, or for 50% of the total cost of implementing the CIP. For the purposes of this study, the 50% credit was used.

7.5 Derivation

The projects eligible for impact fee consideration are shown on Tables 7-3, 7-4 and 7-5. These tables summarize construction costs, bonding costs and interest costs for each project. The impact fee allocations for water, sanitary sewer and roadway facilities are found on Tables 7-6 through 7-8. Many of the proposed CIP projects have capacities in excess of the growth requirements for the study period. The ultimate design capacity of these projects was evaluated against the capacity required by the projected growth to determine the prorated value during the study period. Therefore, only the value (cost) of the facility capacities needed to support growth during the study period is considered in the impact fee determination.

7.6 Maximum Impact Fee Calculation

Exhibit 7-1 shows the derivation of the maximum fees for water, sanitary sewer and roadways. A summary of these impact fees are listed below.

Maximum Water Impact Fee	$3,602.42 (per EDU)
Maximum Sanitary Sewer Impact Fee	$1,857.68 (per EDU)
Maximum Roadway Impact Fee	$1,042.73 (per Vehicle-Mile)

The maximum allowable impact fee per EDU and meter size for water and sanitary sewer are shown below.

Meter Type	Meter Size	Ratio to 5/8" Meter (Equiv. # of EDU's)	Impact Fee for Water	Impact Fee for Sanitary Sewer
Simple	5/8" x 3/4"	1.0	$ 3,602.42	$ 1,857.68
Simple - Residential	3/4"	1.0	$ 3,602.42	$ 1,857.68
Simple - Commercial	3/4"	1.5	$ 5,403.63	$ 2,786.53
Simple	1"	2.5	$ 9,006.06	$ 4,644.21
Simple	1 1/2"	5.0	$ 18,012.11	$ 9,288.42
Simple	2"	8.0	$ 28,819.38	$ 14,861.47
Compound	2"	8.0	$ 28,819.38	$ 14,861.47
Turbine	2"	10.0	$ 36,024.22	$ 18,576.83
Compound	3"	16.0	$ 57,638.76	$ 29,722.94
Turbine	3"	24.0	$ 86,458.14	$ 44,584.40
Compound	4"	25.0	$ 90,060.56	$ 46,442.09
Turbine	4"	42.0	$ 151,301.74	$ 78,022.71
Compound	6"	50.0	$ 180,121.12	$ 92,884.17
Turbine	6"	92.0	$ 331,422.85	$ 170,906.88
Compound	8"	80.0	$ 288,193.79	$ 148,614.68
Turbine	8"	160.0	$ 576,387.57	$ 297,229.36
Compound	10"	115.0	$ 414,278.57	$ 213,633.60
Turbine	10"	250.0	$ 900,605.58	$ 464,420.87
Turbine	12"	330.0	$ 1,188,799.37	$ 613,035.55

SOURCE: AWWA Standards C700, C701, C702, C703

Note: The City of Sachse is setting a standard residential meter to a 3/4" Meter Size. For the purpose of this study, a 3/4" residential meter is set to be the equivalent of 1 EDU

TABLE 4-1
City of Sachse Water Study
Water CIP Projects

No.	Project Name	Qty (length)	Units	Total Item Cost	Easement Cost	Total Project Cost
1	Two 4.6 MGD Pumps at Public Works Pump Station	1	LS	$ 595,000.00	$ 52,100.00	$ 647,100.00
2	Bunker Hill 12" Water Line (N. Segment) (by Developer)	3,200	LF	$ 344,840.00	$ 30,200.00	$ 375,040.00
3	Bunker Hill 12" Water Line (S. Segment) (by Developer)	2,100	LF	$ 231,540.00	$ 20,300.00	$ 251,840.00
4	12" Water Line (by Developer) SH 78 Westward to Clear Meadow Lane, then down Clear Meadow Lane (Wal-Mart Area)	5,000	LF	$ 608,040.00	$ 53,200.00	$ 661,240.00
5	12" Water Line (by Developer) from Bunker Hill to Rosewood Lane	2,100	LF	$ 234,290.00	$ 20,500.00	$ 254,790.00
6	12" Water Line (by Developer) from Hudson Drive to West Creek Lane	2,410	LF	$ 241,310.00	$ 21,100.00	$ 262,410.00
7	12" Water Line (by Developer) from Clear Meadow Lane to Maxwell Creek Road	5,300	LF	$ 493,240.00	$ 43,200.00	$ 536,440.00
8	12" Water Line (by Developer) from Canyon Crest Drive to Maxwell Creek Road at Tracey Lane	930	LF	$ 108,920.00	$ 9,500.00	$ 118,420.00
9	12" Water Line connection (by Developer) from Ranch Road northward 2,500 LF	2,500	LF	$ 256,690.00	$ 22,500.00	$ 279,190.00
10	12" Water Line from Miles Road, south of PGBT looped to Pleasant Valley Drive	5,200	LF	$ 470,090.00	$ 41,100.00	$ 511,190.00
11	12" Water Line from Pump Station along Pleasant Valley Drive to proposed Elevated Water Tank	11,800	LF	$ 1,083,460.00	$ 94,800.00	$ 1,178,260.00
12	Proposed 1.25 MG Elevated Water Tank	1	LS	$ 2,790,000.00	$ 500,000.00	$ 3,290,000.00
13	16" Water Line from the proposed 1.25 MG Elevated Water Tank along Pleasant Valley Drive	1,150	LF	$ 222,480.00	$ 19,500.00	$ 241,980.00
14	18" Water Line along Sachse Road from Pump Station to Merritt Road	4,300	LF	$ 997,860.00	$ 87,300.00	$ 1,085,160.00
15	16" Water Line along Merritt Road from Sachse Road to Pleasant Valley	8,000	LF	$ 1,252,750.00	$ 109,600.00	$ 1,362,350.00
16	12" Water Line in Blackburn Drive from Abilene Street to Dewitt Street	3,500	LF	$ 421,900.00	$ 36,900.00	$ 458,800.00
17	12" Water Line (by Developer) from Rosewood to Merritt Road	1,900	LF	$ 203,880.00	$ 17,800.00	$ 221,680.00
18	8" Water Line (by Developer) from Hunters Ridge to Merritt Road	1,800	LF	$ 136,780.00	$ 12,000.00	$ 148,780.00
	Total =			**$ 10,693,070.00**	**$ 1,191,600.00**	**$ 11,884,670.00**

Note: City of Sachse may re-prioritize these projects based on PM fund availability and other factors.

TABLE 5-1
City of Sachse Sanitary Sewer Study
Inventory of Existing Lift Stations
Existing, Future and Ultimate Acreage & Sewage Gallons

MERRITT RD. LIFT STATION

Zoning/Land Use	Existing		Future Difference		Ultimate			Existing Pumps					Force Main
	Acres	GPD	Acres	GPD	Acres	GPD	Wet Well Size	No. of Pumps	Manufacturer	Horsepower	Gal/min	TDH	Size
Multi-Family/ Apartments	13.49	327,857	17.38	349,506	30.87	677,363							
Church	4.14	26,577	0.00	-1,472	4.14	25,105	30' Depth						
Park Land	4.31	26,240	26.95	1,665	31.26	27,905							
Trailer Park	5.54	47,488	0.00	0	0.00	0							
School/Semi-Public	55.73	46,247	31.76	14,654	87.49	60,900	2 Wet Wells						
Commercial/Industrial	70.12	286,282	448.49	1,676,104	518.61	1,962,386	(2-10'x5')	4	Flygt	30 Each	4 x 1,100	70	16"
Residential (2 Lots Per Acre)	6.14	11,975	39.91	71,529	46.05	83,504							
Residential (4 Lots Per Acre)	884.75	3,963,164	326.78	425,725	1,211.53	4,388,889							
Residential (5 Lots Per Acre)	251.08	1,086,784	88.07	314,165	339.15	1,400,949							
Residential (6 Lots Per Acre)	325.39	1,957,912	0.00	-79,201	325.39	1,878,711	Volume:				3 for Firm		
Residential (Large Lots - 1 Acre Plus)	237.71	315,430	296.83	354,927	534.54	670,357	17,200 gallons				3,300 gpm		
Totals	1,858.40	8,095,954	1276.17	3,127,602	3,129.03	11,176,068	(to lag pump)						
	GPD/1440 =	5,622	GPM		GPD/1440 =	7,761	GPM						

SACHSE RD. LIFT STATION

Zoning/Land Use	Existing		Future Difference		Ultimate			Existing Pumps					Force Main
	Acres	GPD	Acres	GPD	Acres	GPD	Wet Well Size	No. of Pumps	Manufacturer	Horsepower	Gal/min	TDH	Size
Multi-Family/ Apartments	13.49	332,376	8.69	145,151	22.18	477,526							
Park Land	0.00	0	5.51	16,341	5.51	16,341	21' Deep						
School/Semi-Public	12.33	48,940	13.36	-15,771	25.69	33,169	10'x10'						
Commercial/Industrial	7.17	35,131	130.78	541,340	137.95	576,471	2 Pumps						
Residential (4 Lots Per Acre)	179.30	1,034,142	192.96	726,945	372.26	1,761,088	Volume:	2	Flygt	20 Each	2 x 825	68	12"
Residential (6 Lots Per Acre)	266.64	1,635,195	0.00	-98,759	266.64	1,536,435	8,600 gallons						
Totals	478.93	3,085,783	351.30	1,315,247	830.23	4,401,030	(to lag pump)						
	GPD/1440 =	2,143	GPM		GPD/1440 =	3,056	GPM						

SABLE LANE LIFT STATION

Zoning/Land Use	Existing		Future Difference		Ultimate			Existing Pumps					Force Main
	Acres	GPD	Acres	GPD	Acres	GPD	Wet Well Size	No. of Pumps	Manufacturer	Horsepower	Gal/min	TDH	Size
							5' Dia.						
							15' Depth						
Residential (4 Lots Per Acre)	3.69	23,616	25.43	162,752	29.12	186,368	Volume:	2	Gould	0	0	20	2"
							1,395 gallons						
Totals	3.69	23,616	25.43	162,752	29.12	186,368	(to lag pump)						
	GPD/1440 =	16	GPM		GPD/1440 =	129	GPM						

SACHSE FARMS LIFT STATION

Zoning/Land Use	Existing		Future Difference		Ultimate			Existing Pumps					Force Main
	Acres	GPD	Acres	GPD	Acres	GPD	Wet Well Size	No. of Pumps	Manufacturer	Horsepower	Gal/min	TDH	Size
							6' Dia.						
							19' Depth						
Residential (4 Lots Per Acre)	41.58	266,112	63.35	392,848	104.93	658,960	2 Pumps	2	0	10 Each	2x130	70	4"
							Volume:						
							740 gallons						
Totals	41.58	266,112	63.35	392,848	104.93	658,960	(to lag pump)						
	GPD/1440 =	185	GPM		GPD/1440 =	458	GPM						

HUNTER'S RIDGE LIFT STATION

Zoning/Land Use	Existing		Future Difference		Ultimate			Existing Pumps					Force Main
	Acres	GPD	Acres	GPD	Acres	GPD	Wet Well Size	No. of Pumps	Manufacturer	Horsepower	Gal/min	TDH	Size
							4.5' Dia.						
							16' Depth						
Residential (5 Lots Per Acre)	51.11	403,769	0.00	0	51.11	403,769		2	Toran	7.5 Each	2 x 100	62	4"
							Volume:						
							750 gallons						
Totals	51.11	403,769	0.00	0	51.11	403,769	(to lag pump)						
	GPD/1440 =	280	GPM		GPD/1440 =	280	GPM						

TABLE 5-1A
City of Sachse Sanitary Sewer Study
Inventory of Lift Stations

MERRITT RD. LIFT STATION

NOTE: SACHSE ROAD LIFT STATION FLOWS ARE NOT INCLUDED. THOSE FLOWS ARE INTERCEPTED BY FUTURE SOUTHEAST LIFT STATION.

Zoning/Land Use	Existing		Future Differnce		Ultimate		Wet Well Size	Existing Pumps				Firm Capacity	TDH	Force Main Size
	Acres	GPD	Acres	GPD	Acres	GPD		No. of Pumps	Manufacturer	Horsepower	Gal/min			
Multi-Family/ Apartments	0	0	8.69	178,945	8.69	178,945								
Church	4.14	30,716	0.00	-1,247	4.14	29,469								
Park Land	4.31	30,154	21.44	-522	25.75	29,632	30' Depth							
Trailer Park	5.54	54,551	0.00	0	0.00	0								
School/Semi-Public	43.40	44,251	18.40	7,760	61.80	52,012								
Commercial/Industrial	62.95	267,582	317.72	1,140,074	380.67	1,407,656	2 Wet Wells	4	Flygt	30 Each	4 x 1,100	3 x 1,100 =	70	16"
Residential (2 Lots Per Acre)	6.14	13,025	39.91	77,657	46.05	90,682	(2-10'x5')					3,300 gpm		
Residential (4 Lots Per Acre)	663.87	3,017,894	175.41	412,227	839.28	3,430,121								
Residential (5 Lots Per Acre)	251.08	1,231,770	88.07	304,753	339.15	1,536,523								
Residential (6 Lots Per Acre)	58.75	559,539	0.00	4,908	58.75	564,447	Volume:							
Residential (Large Lots - 1 Acre Plus)	237.71	354,499	296.62	376,565	534.33	731,064	17,200 gallons							
Totals	1,337.89	5,603,983	966.26	2,501,119	2,298.61	8,050,550	(to lag pump)							

GPD/1440 =	3,892	GPM	GPD/1440 =	5,591	GPM

SACHSE RD. LIFT STATION

Zoning/Land Use	Existing		Future Differnce		Ultimate		Wet Well Size	Existing Pumps				Firm Capacity	TDH	Force Main Size
	Acres	GPD	Acres	GPD	Acres	GPD		No. of Pumps	Manufacturer	Horsepower	Gal/min			
Multi-Family/ Apartments	13.49	332,376	8.69	145,151	22.18	477,526								
Park Land	0.00	0	5.51	16,341	5.51	16,341	21' Deep							
School/Semi-Public	12.33	48,940	13.36	-15,771	25.69	33,169	10'x10'							
Commercial/Industrial	7.17	35,131	130.78	541,340	137.95	576,471	2 Pumps							
Residential (4 Lots Per Acre)	179.30	1,034,142	192.96	726,945	372.26	1,761,088	Volume:	2	Flygt	20 Each	2 x 825	825 gpm	68	12"
Residential (6 Lots Per Acre)	266.64	1,635,195	0.00	-98,759	266.64	1,536,435	8,600 gallons							
Totals	478.93	3,085,783	351.30	1,315,247	830.23	4,401,030	(to lag pump)							

GPD/1440 =	2,143	GPM	GPD/1440 =	3,056	GPM

SABLE LANE LIFT STATION

Zoning/Land Use	Existing		Future Differnce		Ultimate		Wet Well Size	Existing Pumps				Firm Capacity	TDH	Force Main Size
	Acres	GPD	Acres	GPD	Acres	GPD		No. of Pumps	Manufacturer	Horsepower	Gal/min			
							5' Dia.							
							15' Depth							
Residential (4 Lots Per Acre)	3.69	23,616	25.43	162,752	29.12	186,368	Volume:	2	Gould	3 Each	1-50 gpm	50 gpm	20	2"
							1,395 gallons				1-160 gpm			
Totals	3.69	23,616	25.43	162,752	29.12	186,368	(to lag pump)							

GPD/1440 =	16	GPM	GPD/1440 =	129	GPM

SACHSE FARMS LIFT STATION

Zoning/Land Use	Existing		Future Differnce		Ultimate		Wet Well Size	Existing Pumps				Firm Capacity	TDH	Force Main Size
	Acres	GPD	Acres	GPD	Acres	GPD		No. of Pumps	Manufacturer	Horsepower	Gal/min			
							6' Dia.							
							19' Depth							
Residential (4 Lots Per Acre)	41.58	266,112	63.35	392,848	104.93	658,960	2 Pumps	2	Myers	10 Each	2x130	130 gpm	70	4"
							Volume:							
							740 gallons							
Totals	41.58	266,112	63.35	392,848	104.93	658,960	(to lag pump)							

GPD/1440 =	185	GPM	GPD/1440 =	458	GPM

HUNTER'S RIDGE LIFT STATION

Zoning/Land Use	Existing		Future Differnce		Ultimate		Wet Well Size	Existing Pumps				Firm Capacity	TDH	Force Main Size
	Acres	GPD	Acres	GPD	Acres	GPD		No. of Pumps	Manufacturer	Horsepower	Gal/min			
							4.5' Dia.							
							16' Depth							
Residential (5 Lots Per Acre)	51.11	403,769	0.00	0	51.11	403,769		2	Toran	7.5 Each	2 x 100	100 gpm	62	4"
							Volume:							
							750 gallons							
Totals	51.11	403,769	0.00	0	51.11	403,769	(to lag pump)							

GPD/1440 =	280	GPM	GPD/1440 =	280	GPM

*** Firm Pumping Capacity is defined as total station maximum pumping capacity with the largest pumping unit out of service.**

TABLE 5-1B
City of Sachse Sanitary Sewer Study
Inventory of Existing Lift Stations - Existing, Future and Ultimate Acreage and Sewage Gallons

MERRITT RD. LIFT STATION NOTE: SACHSE ROAD LIFT STATION FLOWS ARE INCLUDED.

Zoning/Land Use	Existing		Future Difference		Ultimate		Wet Well Size	Existing Pumps				TDH	Force Main Size
	Acres	GPD	Acres	GPD	Acres	GPD		No. of Pumps	Manufacturer	Horsepower	Gal/min		
Multi-Family/ Apartments	13.49	327,857	17.38	349,506	30.87	677,363							
Church	4.14	26,577	0.00	-1,472	4.14	25,105	30' Depth						
Park Land	4.31	26,240	26.95	1,665	31.26	27,905							
Trailer Park	5.54	47,488	0.00	0	0.00	0							
School/Semi-Public	55.73	46,247	31.76	14,654	87.49	60,900	2 Wet Wells						
Commercial/Industrial	70.12	286,282	448.49	1,676,104	518.61	1,962,386	(2-10'x5')	4	Flygt	30 Each	4 x 1,100	70	16"
Residential (2 Lots Per Acre)	6.14	11,975	39.91	71,529	46.05	83,504							
Residential (4 Lots Per Acre)	884.75	3,963,164	326.78	425,725	1,211.53	4,388,889							
Residential (5 Lots Per Acre)	251.08	1,086,784	88.07	314,165	339.15	1,400,949							
Residential (6 Lots Per Acre)	325.39	1,957,912	0.00	-79,201	325.39	1,878,711	Volume:				3 for Firm		
Residential (Large Lots - 1 Acre Plus)	237.71	315,430	296.83	354,927	534.54	670,357	17,200 gallons				3,300 gpm		
Totals	1,858.40	8,095,954	1276.17	3,127,602	3,129.03	11,176,068	(to lag pump)						

GPD/1440 =	5,622	GPM	GPD/1440 =	7,761	GPM

TABLE 5-1C
City of Sachse Sanitary Sewer Study
Future Southeast Lift Station-Ultimate Acreage and Sewage Gallons

FUTURE SOUTHEAST LIFT STATION

Zoning/Land Use	Ultimate		Wet Well Size	Future Pumps				TDH	Force Main Size
	Acres	GPD		No. of Pumps	Manufacturer	Horsepower	Gal/min		
Multi-Family/ Apartments	22.18	385,301							
Park Land	5.51	13,403							
School/Semi-Public	83.13	156,015	12' Deep x 10'x10'						
Commercial/Industrial	389.85	1,214,560	X 2 Wet Wells	4	KSB	83	1,500 each	130'+/-	20"
Residential (4 Lots Per Acre)	506.02	2,806,545				6" Discharge	1750 rpm		4.6 fps
Residential (6 Lots Per Acre)	266.64	1,193,073							
Residential (Large Lots - 1 Acre Plus)	335.41	522,230	18,000 gallons						
Totals	1608.74	6,291,127							

GPD/1440 =	4,369	GPM

TABLE 5-2
City of Sachse Sanitary Sewer Study
Sewer CIP Projects

Priority	Project Description	Qty (length)	Units	Qty	Cost/Unit	Total Item Cost	Easement Cost	Total Project Cost
1	Rehab of existing Merritt Road lift station & existing Sachse Road lift station.	n/a	UNIT	1	-	$ 1,015,500.00	$ 88,900.00	$ 1,104,400.00
2	Line "G" - Future aerial crossing for 24" trunk line and meter station to Garland.	n/a	UNIT	1	-	$ 500,000.00	$ 43,800.00	$ 543,800.00
3	Future lift station in southeast Sachse.	n/a	UNIT	1	-	$ 1,037,000.00	$ 90,700.00	$ 1,127,700.00
4	Line "A" - Future 24" trunk line from Sachse Road to southeast lift station.	10,700	LF	n/a	$ 225.00	$ 2,407,500.00	$ 210,700.00	$ 2,618,200.00
5	Line "G" - Future 24" trunk line from Garland interceptor line northward under George Bush Turnpike and eastward along north side of George Bush Turnpike.	4,000	LF	n/a	$ 225.00	$ 900,000.00	$ 78,800.00	$ 978,800.00
6	Future 20" force main from future southeast lift station westward along creek and north side of George Bush Turnpike.	10,000	LF	n/a	$ 190.00	$ 1,900,000.00	$ 166,300.00	$ 2,066,300.00
7	Line "B" - Future 10" trunk line from Lift Station north westward along creek to Willow Lake.	4,100	LF	n/a	$ 100.00	$ 410,000.00	$ 35,900.00	$ 445,900.00
8	Future 8" branch lines connecting to Line "A" - 24" trunk line. (7 branch lines in southeast Sachse).	9,000	LF	n/a	$ 85.00	$ 765,000.00	$ 66,900.00	$ 831,900.00
9	Future 8" branch lines connecting to Line "B" - 10" trunk line. (5 branch lines in southeast Sachse).	1,700	LF	n/a	$ 85.00	$ 144,500.00	$ 12,600.00	$ 157,100.00
10	Line "C" - Future 12" sewer line from north side of George Bush Turnpike eastward along creek to proposed southeast lift station.	4,600	LF	n/a	$ 115.00	$ 529,000.00	$ 46,300.00	$ 575,300.00
11	Future 8" sewer line along north side of George Bush Turnpike.	2,600	LF	n/a	$ 85.00	$ 221,000.00	$ 19,300.00	$ 240,300.00
12	Future 8" branch line along south side and crossing to the north of George Bush Turnpike.	2,900	LF	n/a	$ 85.00	$ 246,500.00	$ 21,600.00	$ 268,100.00
13	Future 8" branch line from 12" trunk line crossing creek north of George Bush Turnpike.	1,400	LF	n/a	$ 85.00	$ 119,000.00	$ 10,400.00	$ 129,400.00
14	Future 8" branch line south of George Bush Turnpike from 24" trunk line eastward along church property.	2,700	LF	n/a	$ 85.00	$ 229,500.00	$ 20,100.00	$ 249,600.00
15	Line "F" - Future 30" trunk line from existing Garland meter station eastward along Bunker Hill Road and northward along Miles Road.	2,900	LF	n/a	$ 280.00	$ 812,000.00	$ 71,100.00	$ 883,100.00
16	Line "E" - Future 10" sewer line from 24" trunk line to Garland along southwest city limits line of Sachse.	2,900	LF	n/a	$ 100.00	$ 290,000.00	$ 25,400.00	$ 315,400.00
17	Future 8" branch line running on west side of Heritage Park from existing 18" trunk line south of Sachse Elementary School.	800	LF	n/a	$ 85.00	$ 68,000.00	$ 6,000.00	$ 74,000.00
18	Line "D" - Future 10" trunk line from existing 12" trunk line on east side of Heritage Park going southward under George Bush Turnpike.	3,700	LF	n/a	$ 100.00	$ 370,000.00	$ 32,400.00	$ 402,400.00
19	2 future 8" trunk lines running in a east-west direction connecting to a 10" trunk line on the south side of George Bush Turnpike.	2,000	LF	n/a	$ 85.00	$ 170,000.00	$ 14,900.00	$ 184,900.00
20	Future 8" sewer line from Hunter's Ridge lift station eastward to 12" sewer line.	1,000	LF	n/a	$ 85.00	$ 85,000.00	$ 7,400.00	$ 92,400.00
21	Line "H" - Future 12" trunk line from Garland interceptor line northward to Murphy Road (Northwest Sachse).	400	LF	n/a	$ 115.00	$ 46,000.00	$ 4,000.00	$ 50,000.00
Note: City of Sachse may re-prioritize these projects based on PM fund availability and other factors.					**Total =**	**$ 12,265,500.00**	**$ 1,073,500.00**	**$ 13,339,000.00**

TABLE 5-3
City of Sachse Sanitary Sewer Study
Future & Existing Sanitary Sewer Lines to Southeast Lift Station

EXISTING 18" TRUNK LINE (AREA 2a) FROM NORTH TO SACHSE ROAD LIFT STATION - ULTIMATE DESIGN FLOWS

Area No.	Area Size (Acres)	Design Land Use	Lots Per Acre	Future Lot Factor	No. of Lots	Populat. Per Unit/Lot	Usage Per Resident (gpd)	Peak Factor	Peak Flow (gpd)	Inflow/Inflt (400 gad)	Total Flow (gpd)	Total Flow (cfs)	Accum. Flow (gpd)	Accum. Flow (cfs)	Pipe Capacity (cfs)	Pipe Slope (ft/ft)	Pipe Size (Inches)	Area No.
2aA	266.67	Residential	6.0	-	1600	3.0	100	3.68	1,766,422	106,668	1,873,090	2.8981	**1,873,090**	**2.90**				2aA
2aB	372.26	Residential	4.0	-	1489	3.0	100	3.25	1,451,814	148,904	1,600,718	2.4767	**3,473,808**	**5.37**				2aB
2aC	22.23	Multi-Family	20.0	-	445	3.0	100	3.15	420,147	8,892	429,039	0.6638	**3,902,847**	**6.04**				2aC
2aD	118.63	Commercial	-	-	-	-	1200	2.88	409,985	47,452	457,437	0.7078	**4,360,284**	**6.75**				2aD
2aE	12.33	School/Semi-Public	-	-	-	600	15	2.86	25,740	4,932	30,672	0.0475	**4,390,956**	**6.79**				2aE
2aF	5.51	Park Land	-	-	-	600	15	2.85	25,650	2,204	27,854	0.0431	**4,418,810**	**6.84**	**5.66**	0.0029	18	2aF
								Totals	**4,099,758**	**319,052**	**4,418,810**	**6.8369**		**DIFF =**	**-1.18**	NOTE: Asbuilt Plans Provided		

Line "A" - Future 24" SS

FUTURE TRUNK LINE FROM SACHSE ROAD LIFT STATION TO FUTURE SOUTHEAST LIFT STATION - ULTIMATE DESIGN FLOWS

Area No.	Area Size (Acres)	Design Land Use	Lots Per Acre	Future Lot Factor	No. of Lots	Populat. Per Unit/Lot	Usage Per Resident (gpd)	Peak Factor	Peak Flow (gpd)	Inflow/Inflt (400 gad)	Total Flow (gpd)	Total Flow (cfs)	Accum. Flow (gpd)	Accum. Flow (cfs)	Pipe Capacity (cfs)	Pipe Slope (ft/ft)	Pipe Size (Inches)	Area No.
2aA	266.67	Residential	6.0	-	1600	3.0	100	3.68	1,766,422	106,668	1,873,090	2.8981	**1,873,090**	**2.90**				2aA
2aB	506.02	Residential	4.0	-	2024	3.0	100	3.14	1,906,683	202,408	2,109,091	3.2632	**3,982,181**	**6.16**				2aB
2aC	39.37	Residential	1.0	0.15	45	3.0	100	3.12	42,378	15,748	58,126	0.0899	**4,040,307**	**6.25**				2aC
2aD	22.23	Multi-Family	20.0	-	445	3.0	100	3.10	413,478	8,892	422,370	0.6535	**4,462,677**	**6.90**				2aD
2aE	279.07	Commercial	-	-	-	-	1200	3.05	1,021,396	111,628	1,133,024	1.7530	**5,595,702**	**8.66**				2aE
2aF	5.51	Park Land	-	-	-	600	15	3.04	27,360	2,204	29,564	0.0457	**5,625,266**	**8.70**				2aF
2aG	25.69	School/Semi-Public	-	-	-	600	15	3.03	27,270	10,276	37,546	0.0581	**5,662,812**	**8.76**				2aG
2aH	38.96	High School	-	-	-	2500	20	2.98	149,000	15,584	164,584	0.2546	**5,827,396**	**9.02**	**10.12**	0.2000	24	2aH
								Totals	**5,353,988**	**473,408**	**5,827,396**	**9.0163**		**DIFF =**	**1.10**			

Line "B" - Future 10" SS

FUTURE TRUNK LINE FROM WILLOW LAKE TO FUTURE SOUTHEAST LIFT STATION - ULTIMATE DESIGN FLOWS

Area No.	Area Size (Acres)	Design Land Use	Lots Per Acre	Future Lot Factor	No. of Lots	Populat. Per Unit/Lot	Usage Per Resident (gpd)	Peak Factor	Peak Flow (gpd)	Inflow/Inflt (400 gad)	Total Flow (gpd)	Total Flow (cfs)	Accum. Flow (gpd)	Accum. Flow (cfs)	Pipe Capacity (cfs)	Pipe Slope (ft/ft)	Pipe Size (Inches)	Area No.
2aA	182.09	Residential	1.0	0.15	209	3.0	100	5.00	314,105	72,836	386,941	0.5987	**386,941**	**0.60**				2aA
2aB	18.48	High School	-	-	-	2500	20	4.15	207,500	7,392	214,892	0.3325	**601,833**	**0.93**	**1.12**	0.0026	10	2aB
								Totals	**521,605**	**80,228**	**601,833**	**0.9312**		**DIFF =**	**0.19**			

TABLE 5-3
City of Sachse Sanitary Sewer Study
Future & Existing Sanitary Sewer Lines to Southeast Lift Station

Line "C" - Future 12" SS

FUTURE TRUNK LINE FROM WEST TO PROPOSED SOUTHEAST LIFT STATION

Area No.	Area Size (Acres)	Design Land Use	Lots Per Acre	Future Lot Factor	No. of Lots	Populat. Per Unit/Lot	Usage Per Resident (gpd)	Peak Factor	Peak Flow (gpd)	Inflow/Inflt (400 gad)	Total Flow (gpd)	Total Flow (cfs)	Accum. Flow (gpd)	Accum. Flow (cfs)	Pipe Capacity (cfs)	Pipe Slope (ft/ft)	Pipe Size (Inches)	Area No.
2aA	132.42	Residential	1.0	0.15	152	3.0	100	5.00	228,425	52,968	281,393	0.4354	**281,393**	**0.44**				2aA
2aB	110.75	Commercial	-	-	-	-	1200	3.15	418,635	44,300	462,935	0.7163	**462,935**	**1.15**	**1.59**	0.0020	12	2aB
								Totals	**647,060**	**97,268**	**744,328**	**1.1516**		**DIFF =**	**0.44**			

Line "D" - Future 10" SS

FUTURE TRUNK LINE FROM SOUTH CROSSING PGBT TO MERRITT ROAD LIFT STATION

Area No.	Area Size (Acres)	Design Land Use	Lots Per Acre	Future Lot Factor	No. of Lots	Populat. Per Unit/Lot	Usage Per Resident (gpd)	Peak Factor	Peak Flow (gpd)	Inflow/Inflt (400 gad)	Total Flow (gpd)	Total Flow (cfs)	Accum. Flow (gpd)	Accum. Flow (cfs)	Pipe Capacity (cfs)	Pipe Slope (ft/ft)	Pipe Size (Inches)	Area No.
2aA	154.21	Commercial	-	-	-	-	1200	3.10	573,661	61,684	635,345	0.9830	**635,345**	**0.98**	**1.12**	0.0026	10	2aA
								Totals	**573,661**	**61,684**	**635,345**	**0.9830**		**DIFF =**	**0.14**			

Line "E" - Future 10" SS

FUTURE TRUNK LINE SOUTH OF PGBT

Area No.	Area Size (Acres)	Design Land Use	Lots Per Acre	Future Lot Factor	No. of Lots	Populat. Per Unit/Lot	Usage Per Resident (gpd)	Peak Factor	Peak Flow (gpd)	Inflow/Inflt (400 gad)	Total Flow (gpd)	Total Flow (cfs)	Accum. Flow (gpd)	Accum. Flow (cfs)	Pipe Capacity (cfs)	Pipe Slope (ft/ft)	Pipe Size (Inches)	Area No.
2aA	154.60	Commercial	-	-	-	-	1200	3.10	575,112	61,840	636,952	0.9855	**636,952**	**0.99**	**1.12**	0.0026	10	2aA
								Totals	**575,112**	**61,840**	**636,952**	**0.9855**		**DIFF =**	**0.13**			

TABLE 5-3
City of Sachse Sanitary Sewer Study
Future & Existing Sanitary Sewer Lines to Southeast Lift Station

Line "F" - Future 30" SS

EXISTING 30" TRUNK LINE TO CITY OF GARLAND CROSSING BUNKER HILL ROAD - ULTIMATE DESIGN FLOWS

Area No.	Area Size (Acres)	Design Land Use	Lots Per Acre	Future Lot Factor	No. of Lots	Populat. Per Unit/Lot	Usage Per Resident (gpd)	Peak Factor	Peak Flow (gpd)	Inflow/Inflt (400 gad)	Total Flow (gpd)	Total Flow (cfs)	Accum. Flow (gpd)	Accum. Flow (cfs)	Pipe Capacity (cfs)	Pipe Slope (ft/ft)	Pipe Size (Inches)	Area No.
2A	325.39	Residential	6.0	-	1952	3.0	100	3.59	2,102,670	130,156	2,232,826	3.4547	**2,232,826**	**3.45**				2A
2B	386.94	Residential	5.0	-	1935	3.0	100	3.14	1,822,487	154,776	1,977,263	3.0593	**4,210,090**	**6.51**				2B
2C	1211.61	Residential	4.0	-	4846	3.0	100	2.74	3,983,774	484,644	4,468,418	6.9137	**8,678,507**	**13.43**				2C
2D	46.13	Residential	2.0	-	92	3.0	100	2.74	75,838	18,452	94,290	0.1459	**8,772,797**	**13.57**				2D
2E	534.65	Residential	1.0	0.15	615	3.0	100	2.69	496,182	213,860	710,042	1.0986	**9,482,839**	**14.67**				2E
2F	30.88	Multi-Family	20.0	-	618	3.0	100	2.65	490,992	12,352	503,344	0.7788	**9,986,183**	**15.45**				2F
2G	585.69	Commercial	-	-	-	-	1200	2.00	1,405,656	234,276	1,639,932	2.5373	**11,626,115**	**17.99**				2G
2H	4.14	Church	-	-	-	600	15	1.98	17,820	1,656	19,476	0.0301	**11,645,591**	**18.02**				2H
2I	136.39	School/Semi-Public	-	-	-	600	15	1.97	17,730	54,556	72,286	0.1118	**11,717,877**	**18.13**				2I
2K	68.55	Park Land	-	-	-	600	15	1.96	17,640	27,420	45,060	0.0697	**11,762,937**	**18.20**	**20.91**	0.0026	30	2K
								Totals	**10,430,789**	**1,332,148**	**11,762,937**	**18.2000**		**DIFF =**	**2.71**			

Line "G" - Future 24" SS to City of Garland

FUTURE TRUNK LINE FROM FUTURE 20" FORCE MAIN CROSSING PGBT TO CITY OF GARLAND

Area No.	Area Size (Acres)	Design Land Use	Lots Per Acre	Future Lot Factor	No. of Lots	Populat. Per Unit/Lot	Usage Per Resident (gpd)	Peak Factor	Peak Flow (gpd)	Inflow/Inflt (400 gad)	Total Flow (gpd)	Total Flow (cfs)	Accum. Flow (gpd)	Accum. Flow (cfs)	Pipe Capacity (cfs)	Pipe Slope (ft/ft)	Pipe Size (Inches)	Area No.
2aA	266.67	Residential	6.0	-	1600	3.0	100	3.68	1,766,422	106,668	1,873,090	2.8981	**1,873,090**	**2.90**				2aA
2aB	506.02	Residential	4.0	-	2024	3.0	100	3.14	1,906,683	202,408	2,109,091	3.2632	**3,982,181**	**6.16**				2aB
2aC	457.64	Residential	1.0	0.15	526	3.0	100	3.10	489,446	183,056	672,502	1.0405	**4,654,683**	**7.20**				2aC
2aD	22.23	Multi-Family	20.0	-	445	3.0	100	3.08	410,810	8,892	419,702	0.6494	**5,074,386**	**7.85**				2aD
2aE	472.43	Commercial	-	-	-	-	1200	2.34	1,326,583	188,972	1,515,555	2.3449	**6,589,941**	**10.20**				2aE
2aF	32.10	Church	-	-	-	2500	15	2.32	87,000	12,840	99,840	0.1545	**31,489,559**	**10.35**				2aF
2aG	5.51	Park Land	-	-	-	600	15	2.31	20,790	2,204	22,994	0.0356	**6,712,775**	**10.39**				2aG
2aH	25.69	School/Semi-Public	-	-	-	600	15	2.30	20,700	10,276	30,976	0.0479	**6,743,751**	**10.43**				2aH
2aI	57.44	High School	-	-	-	2500	20	2.27	113,500	22,976	136,476	0.2112	**6,880,227**	**10.65**	**11.54**	0.0026	24	2aI
								Totals	**6,141,935**	**738,292**	**6,880,227**	**10.6453**		**DIFF =**	**0.89**			

TABLE 5-4
City of Sachse Sanitary Sewer Study
Existing Pipe Size Check

No. 1	EXISTING 27" TRUNK LINE (AREA 2) TO MERRITT ROAD LIFT STATION - EXISTING FLOWS																	
Area No.	Area Size (Acres)	Design Land Use	Lots Per Acre	Future Lot Factor	No. of Lots	Populat. Per Unit/Lot	Usage Per Resident (gpd)	Peak Factor	Peak Flow (gpd)	Inflow/Inflt (400 gad)	Total Flow (gpd)	Total Flow (cfs)	Accum. Flow (gpd)	Accum. Flow (cfs)	Pipe Capacity (cfs)	Pipe Slope (ft/ft)	Pipe Size (Inches)	Area No.
2A	325.39	Residential	6.0	-	1952	3.0	100	3.60	2,108,527	130,156	2,238,683	3.4638	**2,238,683**	**3.46**				2A
2B	149.63	Residential	5.0	-	748	3.0	100	3.35	751,891	59,852	811,743	1.2560	**3,050,426**	**4.72**				2B
2C	754.19	Residential	4.0	-	3017	3.0	100	3.05	2,760,335	301,676	3,062,011	4.7376	**6,112,437**	**9.46**				2C
2D	250.42	Residential	1.0	0.15	288	3.0	100	3.00	259,185	100,168	359,353	0.5560	**6,471,790**	**10.01**				2D
2E	13.49	Multi-Family	20.0	-	270	3.0	100	2.90	234,726	5,396	240,122	0.3715	**6,711,912**	**10.38**				2E
2F	70.13	Commercial	-	-	-	-	1200	2.75	231,429	28,052	259,481	0.4015	**6,971,393**	**10.79**				2F
2G	1.77	Church	-	-	-	600	15	2.74	24,660	708	25,368	0.0393	**6,996,761**	**10.83**				2G
2H	48.67	School/Semi-Public	-	-	-	600	15	2.73	24,570	19,468	44,038	0.0681	**7,040,799**	**10.89**				2H
2I	4.31	Park Land	-	-	-	600	15	2.72	24,480	1,724	26,204	0.0405	**7,067,003**	**10.93**				2I
2J	5.54	Trailer Park	10.0	-	55	3.0	100	2.71	45,040	2,216	47,256	0.0731	**7,114,259**	**11.01**	**8.19**	0.0007	27	2J
								Totals	**6,464,843**	**649,416**	**7,114,259**	**11.0074**		**DIFF =**	**-2.82**	NOTE: Asbuilt Plans Provided		

No. 2	EXISTING 15" TRUNK LINE (AREA 2) TO MERRITT ROAD LIFT STATION - EXISTING FLOWS																	
Area No.	Area Size (Acres)	Design Land Use	Lots Per Acre	Future Lot Factor	No. of Lots	Populat. Per Unit/Lot	Usage Per Resident (gpd)	Peak Factor	Peak Flow (gpd)	Inflow/Inflt (400 gad)	Total Flow (gpd)	Total Flow (cfs)	Accum. Flow (gpd)	Accum. Flow (cfs)	Pipe Capacity (cfs)	Pipe Slope (ft/ft)	Pipe Size (Inches)	Area No.
2A	101.45	Residential	5.0	-	507	3.0	100	4.85	738,049	40,580	778,629	1.2047	**778,629**	**1.20**				2A
2B	130.57	Residential	4.0	-	522	3.0	100	4.20	658,073	52,228	710,301	1.0990	**1,488,930**	**2.30**				2B
2C	6.14	Residential	2.0	-	12	3.0	100	4.15	15,296	2,457	17,753	0.0275	**1,506,683**	**2.33**				2C
2D	14.39	Residential	1.0	0.15	17	3.0	100	4.10	20,355	5,756	26,111	0.0404	**1,532,793**	**2.37**				2D
2E	2.37	Church	-	-	-	600	15	3.90	35,100	948	36,048	0.0558	**1,568,841**	**2.43**				2E
2F	7.08	School/Semi-Public	-	-	-	600	15	3.80	34,200	2,832	37,032	0.0573	**1,605,873**	**2.48**	**5.78**	0.008	15	2F
								Totals	**1,501,072**	**104,801**	**1,605,873**	**2.4847**		**DIFF =**	**3.30**	NOTE: Asbuilt Plans Provided		

No. 3	EXISTING 27" TRUNK LINE (AREA 2) TO MERRITT ROAD LIFT STATION WITHOUT SACHSE ROAD LIFT STATION FLOWS INCLUDED - EXISTING FLOWS																	
Area No.	Area Size (Acres)	Design Land Use	Lots Per Acre	Future Lot Factor	No. of Lots	Populat. Per Unit/Lot	Usage Per Resident (gpd)	Peak Factor	Peak Flow (gpd)	Inflow/Inflt (400 gad)	Total Flow (gpd)	Total Flow (cfs)	Accum. Flow (gpd)	Accum. Flow (cfs)	Pipe Capacity (cfs)	Pipe Slope (ft/ft)	Pipe Size (Inches)	Area No.
2A	58.75	Residential	6.0	-	353	3.0	100	4.95	523,463	23,500	546,963	0.8463	**546,963**	**0.85**				2A
2B	149.63	Residential	5.0	-	748	3.0	100	4.00	897,780	59,852	957,632	1.4817	**1,504,595**	**2.33**				2B
2C	574.89	Residential	4.0	-	2300	3.0	100	3.15	2,173,084	229,956	2,403,040	3.7181	**3,907,635**	**6.05**				2C
2D	250.42	Residential	1.0	0.15	288	3.0	100	3.14	271,280	100,168	371,448	0.5747	**4,279,083**	**6.62**				2D
2E	62.96	Commercial	-	-	-	-	1200	3.02	228,167	25,184	253,351	0.3920	**4,532,434**	**7.01**				2E
2F	1.77	Church	-	-	-	600	15	3.01	27,090	708	27,798	0.0430	**4,560,232**	**7.06**				2F
2G	36.34	School/Semi-Public	-	-	-	600	15	3.00	27,000	14,536	41,536	0.0643	**4,601,768**	**7.12**				2G
2H	4.31	Park Land	-	-	-	600	15	2.98	26,820	1,724	28,544	0.0442	**4,630,312**	**7.16**				2H
2I	5.54	Trailer Park	10.0	-	55	3.0	100	2.97	49,361	2,216	51,577	0.0798	**4,681,889**	**7.24**	**8.19**	0.0007	27	2I
								Totals	**4,224,045**	**457,844**	**4,681,889**	**7.2440**		**DIFF =**	**0.95**	NOTE: Asbuilt Plans Provided		

TABLE 5-4
City of Sachse Sanitary Sewer Study
Existing Pipe Size Check

No. 4	EXISTING 18" TRUNK LINE (AREA 2) TO SACHSE ROAD LIFT STATION - EXISTING FLOWS																	
Area No.	Area Size (Acres)	Design Land Use	Lots Per Acre	Future Lot Factor	No. of Lots	Populat. Per Unit/Lot	Usage Per Resident (gpd)	Peak Factor	Peak Flow (gpd)	Inflow/Inflt (400 gad)	Total Flow (gpd)	Total Flow (cfs)	Accum. Flow (gpd)	Accum. Flow (cfs)	Pipe Capacity (cfs)	Pipe Slope (ft/ft)	Pipe Size (Inches)	Area No.
2A	266.64	Residential	6.0	-	1600	3.0	100	3.70	1,775,822	106,656	1,882,478	2.9126	**1,882,478**	**2.91**				2A
2B	179.30	Residential	4.0	-	717	3.0	100	3.50	753,060	71,720	824,780	1.2761	**2,707,258**	**4.19**				2B
2C	13.49	Multi-Family	20.0	-	270	3.0	100	3.40	275,196	5,396	280,592	0.4341	**2,987,850**	**4.62**				2C
2D	7.17	Commercial	-	-	-	-	1200	3.30	28,393	2,868	31,261	0.0484	**3,019,112**	**4.67**				2D
2E	12.33	School/Semi-Public	-	-	-	600	15	3.25	29,250	4,932	34,182	0.0529	**3,053,294**	**4.72**	**5.66**	0.0029	18	2E
								Totals	**2,861,722**	**191,572**	**3,053,294**	**4.7241**		**DIFF =**	**0.94**	NOTE: Asbuilt Plans Provided		

No. 5	EXISTING 12" TRUNK LINE (AREA 2) FROM NORTHWEST SACHSE: NORTH OF 78 ROW - EXISTING FLOWS																	
Area No.	Area Size (Acres)	Design Land Use	Lots Per Acre	Future Lot Factor	No. of Lots	Populat. Per Unit/Lot	Usage Per Resident (gpd)	Peak Factor	Peak Flow (gpd)	Inflow/Inflt (400 gad)	Total Flow (gpd)	Total Flow (cfs)	Accum. Flow (gpd)	Accum. Flow (cfs)	Pipe Capacity (cfs)	Pipe Slope (ft/ft)	Pipe Size (Inches)	Area No.
2A	362.91	Residential	4.0	-	1452	3.0	100	3.80	1,654,870	145,164	1,800,034	2.7851	**1,800,034**	**2.79**				2A
2B	27.10	Residential	1.0	0.15	31	3.0	100	3.75	35,061	10,840	45,901	0.0710	**1,845,934**	**2.86**				2B
2C	7.70	Commercial	-	-	-	-	1200	3.63	33,541	3,080	36,621	0.0567	**1,882,555**	**2.91**				2C
2D	1.77	Church	-	-	-	600	15	3.57	32,130	708	32,838	0.0508	**1,915,393**	**2.96**				2D
2E	9.58	School/Semi-Public	-	-	-	600	15	3.52	31,680	3,832	35,512	0.0549	**1,950,905**	**3.02**	**2.39**	0.0045	12	2E
								Totals	**1,787,281**	**163,624**	**1,950,905**	**3.0185**		**DIFF =**	**-0.63**	NOTE: Asbuilt Plans Provided		

No. 6	EXISTING 18" TRUNK LINE (AREA 2) FROM NORTHWEST SACHSE: SOUTH OF 78 ROW - EXISTING FLOWS																	
Area No.	Area Size (Acres)	Design Land Use	Lots Per Acre	Future Lot Factor	No. of Lots	Populat. Per Unit/Lot	Usage Per Resident (gpd)	Peak Factor	Peak Flow (gpd)	Inflow/Inflt (400 gad)	Total Flow (gpd)	Total Flow (cfs)	Accum. Flow (gpd)	Accum. Flow (cfs)	Pipe Capacity (cfs)	Pipe Slope (ft/ft)	Pipe Size (Inches)	Area No.
2A	404.13	Residential	4.0	-	1617	3.0	100	3.67	1,779,789	161,652	1,941,441	3.0039	**1,941,441**	**3.00**				2A
2B	22.54	Residential	5.0	-	113	3.0	100	3.66	123,745	9,016	132,761	0.2054	**2,074,201**	**3.21**				2B
2C	27.10	Residential	1.0	0.15	31	3.0	100	3.65	34,126	10,840	44,966	0.0696	**2,119,167**	**3.28**				2C
2D	47.26	Commercial	-	-	-	-	1200	3.25	184,314	18,904	203,218	0.3144	**2,322,385**	**3.59**				2D
2E	4.31	Park Land	-	-	-	600	15	3.21	28,890	1,724	30,614	0.0474	**2,352,999**	**3.64**				2E
2F	1.77	Church	-	-	-	600	15	3.14	28,260	708	28,968	0.0448	**2,381,967**	**3.69**				2F
2G	9.58	School/Semi-Public	-	-	-	600	15	3.12	28,080	3,832	31,912	0.0494	**2,413,879**	**3.73**				2G
2H	5.54	Trailer Park	10.0	-	55	3.0	100	3.11	933	2,216	3,149	0.0049	**2,417,028**	**3.74**	**8.14**	0.0060	18	2H
								Totals	**2,208,136**	**208,892**	**2,417,028**	**3.7397**		**DIFF =**	**4.40**	NOTE: Asbuilt Plans Provided		

TABLE 5-4
City of Sachse Sanitary Sewer Study
Existing Pipe Size Check

No. 7	EXISTING 18" TRUNK LINE (AREA 2) SOUTH OF INTERSECTION OF SACHSE ROAD AND BAILEY ROAD: ALONG NORTH ROW LINE OF SACHSE ROAD - EXISTING FLOWS																		
Area No.	Area Size (Acres)	Design Land Use	Lots Per Acre	Future Lot Factor	No. of Lots	Populat. Per Unit/Lot	Usage Per Resident (gpd)	Peak Factor	Peak Flow (gpd)	Inflow/Inflt (400 gad)	Total Flow (gpd)	Total Flow (cfs)	Accum. Flow (gpd)	Accum. Flow (cfs)	Pipe Capacity (cfs)	Pipe Slope (ft/ft)	Pipe Size (Inches)	Area No.
2A	462.16	Residential	4.0	-	1849	3.0	100	3.63	2,013,169	184,864	2,198,033	3.4009	**2,198,033**	**3.40**				2A
2B	149.64	Residential	5.0	-	748	3.0	100	3.40	763,164	59,856	823,020	1.2734	**3,021,053**	**4.67**				2B
2C	27.10	Residential	1.0	0.15	31	3.0	100	3.39	31,695	10,840	42,535	0.0658	**3,063,588**	**4.74**				2C
2D	58.99	Commercial	-	-	-	-	1200	3.10	219,443	23,596	243,039	0.3760	**3,306,627**	**5.12**				2D
2E	4.31	Park Land	-	-	-	600	15	3.09	27,810	1,724	29,534	0.0457	**3,336,161**	**5.16**				2E
2F	1.77	Church	-	-	-	600	15	3.08	27,720	708	28,428	0.0440	**3,364,589**	**5.21**				2F
2G	24.61	School/Semi-Public	-	-	-	600	15	3.07	27,630	9,844	37,474	0.0580	**3,402,063**	**5.26**				2G
2H	5.54	Trailer Park	10.0	-	55	3.0	100	3.06	918	2,216	3,134	0.0048	**3,405,197**	**5.27**	**8.47**	0.0065	18	2H
								Totals	**3,111,549**	**293,648**	**3,405,197**	**5.2686**		**DIFF =**	**3.20**	NOTE: Asbuilt Plans Provided		

No. 8	EXISTING 27" TRUNK LINE (AREA 2) AT INTERSECTION OF SACHSE ROAD AND MERRITT ROAD: ON SOUTHEAST CORNER - EXISTING FLOWS																		
Area No.	Area Size (Acres)	Design Land Use	Lots Per Acre	Future Lot Factor	No. of Lots	Populat. Per Unit/Lot	Usage Per Resident (gpd)	Peak Factor	Peak Flow (gpd)	Inflow/Inflt (400 gad)	Total Flow (gpd)	Total Flow (cfs)	Accum. Flow (gpd)	Accum. Flow (cfs)	Pipe Capacity (cfs)	Pipe Slope (ft/ft)	Pipe Size (Inches)	Area No.
2A	325.39	Residential	6.0	-	1952	3.0	100	3.60	2,108,527	130,156	2,238,683	3.4638	**2,238,683**	**3.46**				2A
2B	149.63	Residential	5.0	-	748	3.0	100	3.37	756,380	59,852	816,232	1.2629	**3,054,915**	**4.73**				2B
2C	754.19	Residential	4.0	-	3017	3.0	100	3.00	2,715,084	301,676	3,016,760	4.6676	**6,071,675**	**9.39**				2C
2D	161.70	Residential	1.0	0.15	186	3.0	100	2.99	166,802	64,680	231,482	0.3582	**6,303,156**	**9.75**				2D
2E	13.49	Multi-Family	20.0	-	270	3.0	100	2.95	238,773	5,396	244,169	0.3778	**6,547,325**	**10.13**				2E
2F	70.13	Commercial	-	-	-	-	1200	2.77	233,112	28,052	261,164	0.4041	**6,808,490**	**10.53**				2F
2G	1.77	Church	-	-	-	600	15	2.76	24,840	708	25,548	0.0395	**6,834,038**	**10.57**				2G
2H	48.67	School/Semi-Public	-	-	-	600	15	2.75	24,750	19,468	44,218	0.0684	**6,878,256**	**10.64**				2H
2I	4.31	Park Land	-	-	-	600	15	2.74	24,660	1,724	26,384	0.0408	**6,904,640**	**10.68**				2I
2J	5.54	Trailer Park	10.0	-	55	3.0	100	2.73	45,373	2,216	47,589	0.0736	**6,952,228**	**10.76**	**26.10**	0.0071	27	2J
								Totals	**6,338,300**	**613,928**	**6,952,228**	**10.7567**		**DIFF =**	**15.34**	NOTE: Asbuilt Plans Provided		

No. 9	EXISTING 15" TRUNK LINE (AREA 1) ON NORTH SIDE OF BUNKER HILL ROAD - EXISTING FLOWS																		
Area No.	Area Size (Acres)	Design Land Use	Lots Per Acre	Future Lot Factor	No. of Lots	Populat. Per Unit/Lot	Usage Per Resident (gpd)	Peak Factor	Peak Flow (gpd)	Inflow/Inflt (400 gad)	Total Flow (gpd)	Total Flow (cfs)	Accum. Flow (gpd)	Accum. Flow (cfs)	Pipe Capacity (cfs)	Pipe Slope (ft/ft)	Pipe Size (Inches)	Area No.
1A	30.20	Residential	6.0	-	181	3.0	100	5.00	271,800	12,080	283,880	0.4392	**283,880**	**0.44**				1A
1B	96.36	Residential	5.0	-	482	3.0	100	4.65	672,111	38,544	710,655	1.0995	**994,535**	**1.54**				1B
1C	104.67	Residential	4.0	-	419	3.0	100	4.00	502,416	41,868	544,284	0.8421	**1,538,819**	**2.38**				1C
1D	15.71	Residential	2.0	-	31	3.0	100	3.99	37,610	6,284	43,894	0.0679	**1,582,713**	**2.45**				1D
1E	59.58	Residential	1.0	0.15	69	3.0	100	3.95	81,193	23,832	105,025	0.1625	**1,687,737**	**2.61**				1E
1F	1.11	Multi-Family	20.0	-	22	3.0	100	3.93	26,174	444	26,618	0.0412	**1,714,355**	**2.65**				1F
1G	13.98	Duplex	4.0	-	56	6.0	100	3.91	131,188	5,592	136,780	0.2116	**1,851,136**	**2.86**				1G
1H	36.77	Commercial	-	-	-	-	1200	3.40	150,022	14,708	164,730	0.2549	**2,015,865**	**3.12**				1H
1I	14.32	School/Semi-Public	-	-	-	600	15	3.39	30,510	5,728	36,238	0.0561	**2,052,103**	**3.18**	**4.57**	0.0050	15	1I
								Totals	**1,903,023**	**149,080**	**2,052,103**	**3.1751**		**DIFF =**	**1.39**	NOTE: Asbuilt Plans Provided		

TABLE 5-4
City of Sachse Sanitary Sewer Study
Existing Pipe Size Check

No. 10	EXISTING 18" TRUNK LINE (AREA 2) FROM NORTHWEST SACHSE: SOUTH OF 78 ROW - EXISTING FLOWS																	
Area No.	Area Size (Acres)	Design Land Use	Lots Per Acre	Future Lot Factor	No. of Lots	Populat. Per Unit/Lot	Usage Per Resident (gpd)	Peak Factor	Peak Flow (gpd)	Inflow/Inflt (400 gad)	Total Flow (gpd)	Total Flow (cfs)	Accum. Flow (gpd)	Accum. Flow (cfs)	Pipe Capacity (cfs)	Pipe Slope (ft/ft)	Pipe Size (Inches)	Area No.
2A	389.52	Residential	4.0	-	1558	3.0	100	3.73	1,743,492	155,808	1,899,300	2.9387	**1,899,300**	**2.94**				2A
2B	27.10	Residential	1.0	0.15	31	3.0	100	3.70	34,593	10,840	45,433	0.0703	**1,944,733**	**3.01**				2B
2C	27.55	Commercial	-	-	-	-	1200	3.45	114,057	11,020	125,077	0.1935	**2,069,810**	**3.20**				2C
2D	1.77	Church	-	-	-	600	15	3.40	30,600	708	31,308	0.0484	**2,101,118**	**3.25**				2D
2E	9.58	School/Semi-Public	-	-	-	600	15	3.33	29,970	3,832	33,802	0.0523	**2,134,920**	**3.30**	**8.14**	0.0060	18	2E
								Totals	**1,952,712**	**182,208**	**2,134,920**	**3.3032**		**DIFF =**	**4.84**	NOTE: Asbuilt Plans Provided		

No. 11	EXISTING 24" TRUNK LINE (AREA 2) AT INTERSECTION OF SACHSE ROAD AND MERRITT ROAD: ON SOUTHEAST CORNER - EXISTING FLOWS																	
Area No.	Area Size (Acres)	Design Land Use	Lots Per Acre	Future Lot Factor	No. of Lots	Populat. Per Unit/Lot	Usage Per Resident (gpd)	Peak Factor	Peak Flow (gpd)	Inflow/Inflt (400 gad)	Total Flow (gpd)	Total Flow (cfs)	Accum. Flow (gpd)	Accum. Flow (cfs)	Pipe Capacity (cfs)	Pipe Slope (ft/ft)	Pipe Size (Inches)	Area No.
2B	149.63	Residential	5.0	-	748	3.0	100	4.50	1,010,003	59,852	1,069,855	1.6553	**1,069,855**	**1.66**				2B
2C	462.15	Residential	4.0	-	1849	3.0	100	3.40	1,885,572	184,860	2,070,432	3.2034	**3,140,287**	**4.86**				2C
2D	152.00	Residential	1.0	0.15	175	3.0	100	3.35	175,674	60,800	236,474	0.3659	**3,376,761**	**5.22**				2D
2E	13.49	Multi-Family	20.0	-	270	3.0	100	3.28	265,483	5,396	270,879	0.4191	**3,647,640**	**5.64**				2E
2F	62.95	Commercial	-	-	-	-	1200	3.04	229,642	25,180	254,822	0.3943	**3,902,461**	**6.04**				2F
2G	1.77	Church	-	-	-	600	15	3.05	27,450	708	28,158	0.0436	**3,930,619**	**6.08**				2G
2H	24.61	School/Semi-Public	-	-	-	600	15	3.06	27,540	9,844	37,384	0.0578	**3,968,003**	**6.14**				2H
2I	4.31	Park Land	-	-	-	600	15	3.04	27,360	1,724	29,084	0.0450	**3,997,087**	**6.18**				2I
2J	5.54	Trailer Park	10.0	-	55	3.0	100	3.03	50,359	2,216	52,575	0.0813	**4,049,662**	**6.27**	**6.79**	0.0009	24	2J
								Totals	**3,699,082**	**350,580**	**4,049,662**	**6.2658**		**DIFF =**	**0.52**	NOTE: Asbuilt Plans Provided		

No. 12	EXISTING 15" TRUNK LINE (AREA 2) ON NORTH SIDE OF SH 78 ROW - EXISTING FLOWS																	
Area No.	Area Size (Acres)	Design Land Use	Lots Per Acre	Future Lot Factor	No. of Lots	Populat. Per Unit/Lot	Usage Per Resident (gpd)	Peak Factor	Peak Flow (gpd)	Inflow/Inflt (400 gad)	Total Flow (gpd)	Total Flow (cfs)	Accum. Flow (gpd)	Accum. Flow (cfs)	Pipe Capacity (cfs)	Pipe Slope (ft/ft)	Pipe Size (Inches)	Area No.
2A	159.49	Residential	4.0	-	638	3.0	100	4.70	899,524	63,796	963,320	1.4905	**963,320**	**1.49**				2A
2B	12.33	School/Semi-Public	-	-	-	600	15	4.35	39,150	4,932	44,082	0.0682	**1,007,402**	**1.56**	**6.93**	0.0115	15	2B
								Totals	**938,674**	**68,728**	**1,007,402**	**1.5587**		**DIFF =**	**5.37**	NOTE: Asbuilt Plans Provided		

TABLE 5-4
City of Sachse Sanitary Sewer Study
Existing Pipe Size Check

No. 13	EXISTING 30" TRUNK LINE TO CITY OF GARLAND CROSSING BUNKER HILL ROAD - EXISTING FLOWS WITH SACHSE ROAD LIFT STATION FLOWS																	
Area No.	Area Size (Acres)	Design Land Use	Lots Per Acre	Future Lot Factor	No. of Lots	Populat. Per Unit/Lot	Usage Per Resident (gpd)	Peak Factor	Peak Flow (gpd)	Inflow/Inflt (400 gad)	Total Flow (gpd)	Total Flow (cfs)	Accum. Flow (gpd)	Accum. Flow (cfs)	Pipe Capacity (cfs)	Pipe Slope (ft/ft)	Pipe Size (Inches)	Area No.
2A	355.59	Residential	6.0	-	2134	3.0	100	3.53	2,259,419	142,236	2,401,655	3.7159	**2,401,655**	**3.72**				2A
2B	485.71	Residential	5.0	-	2429	3.0	100	3.09	2,251,266	194,284	2,445,550	3.7838	**4,847,205**	**7.50**				2B
2C	989.43	Residential	4.0	-	3958	3.0	100	2.73	3,241,373	395,772	3,637,145	5.6275	**8,484,349**	**13.13**				2C
2D	21.85	Residential	2.0	-	44	3.0	100	2.72	35,659	8,740	44,399	0.0687	**8,528,749**	**13.20**				2D
2E	324.39	Residential	1.0	0.15	373	3.0	100	2.71	303,288	129,756	433,044	0.6700	**8,961,793**	**13.87**				2E
2F	14.60	Multi-Family	20.0	-	292	3.0	100	2.70	236,520	5,840	242,360	0.3750	**9,204,153**	**14.24**				2F
2G	106.90	Commercial	-	-	-	-	1200	2.57	329,680	42,760	372,440	0.5762	**9,576,593**	**14.82**				2G
2H	4.14	Church	-	-	-	600	15	2.57	23,130	1,656	24,786	0.0383	**9,601,379**	**14.86**				2H
2I	105.37	School/Semi-Public	-	-	-	600	15	2.56	23,040	42,148	65,188	0.1009	**9,666,567**	**14.96**				2I
2J	48.42	High School	-	-	-	2500	20	2.55	127,500	19,368	146,868	0.2272	**9,813,435**	**15.18**				2J
2K	4.31	Park Land	-	-	-	600	15	2.54	22,860	1,724	24,584	0.0380	**9,838,019**	**15.22**				2K
2L	5.54	Trailer Park	10.0	-	55	3.0	100	2.54	42,215	2,216	44,431	0.0687	**9,882,449**	**15.29**	**16.41**	0.0016	30	2L
								Totals	**8,895,949**	**986,500**	**9,882,449**	**15.2904**		**DIFF =**	**1.12**	NOTE: Construction Plans Provided - 30" Pipe Minimum		

No. 14	EXISTING 30" TRUNK LINE TO CITY OF GARLAND CROSSING BUNKER HILL ROAD - EXISTING FLOWS WITHOUT SACHSE ROAD LIFT STATION FLOWS																	
Area No.	Area Size (Acres)	Design Land Use	Lots Per Acre	Future Lot Factor	No. of Lots	Populat. Per Unit/Lot	Usage Per Resident (gpd)	Peak Factor	Peak Flow (gpd)	Inflow/Inflt (400 gad)	Total Flow (gpd)	Total Flow (cfs)	Accum. Flow (gpd)	Accum. Flow (cfs)	Pipe Capacity (cfs)	Pipe Slope (ft/ft)	Pipe Size (Inches)	Area No.
2A	88.95	Residential	6.0	-	534	3.0	100	4.84	774,932	35,580	810,512	1.2540	**810,512**	**1.25**				2A
2B	485.71	Residential	5.0	-	2429	3.0	100	3.29	2,396,979	194,284	2,591,263	4.0093	**3,401,775**	**5.26**				2B
2C	810.13	Residential	4.0	-	3241	3.0	100	2.95	2,867,860	324,052	3,191,912	4.9386	**6,593,687**	**10.20**				2C
2D	21.85	Residential	2.0	-	44	3.0	100	2.94	38,543	8,740	47,283	0.0732	**6,640,971**	**10.28**				2D
2E	324.39	Residential	1.0	0.15	373	3.0	100	2.91	325,671	129,756	455,427	0.7047	**7,096,398**	**10.98**				2E
2F	1.11	Multi-Family	20.0	-	22	3.0	100	2.90	19,314	444	19,758	0.0306	**7,116,156**	**11.01**				2F
2G	99.73	Commercial	-	-	-	-	1200	2.23	266,877	39,892	306,769	0.4746	**7,422,926**	**11.48**				2G
2H	4.14	Church	-	-	-	600	15	2.22	19,980	1,656	21,636	0.0335	**7,444,562**	**11.52**				2H
2I	93.04	School/Semi-Public	-	-	-	600	15	2.21	19,890	37,216	57,106	0.0884	**7,501,668**	**11.61**				2I
2J	48.42	High School	-	-	-	2500	20	2.19	109,500	19,368	128,868	0.1994	**7,630,536**	**11.81**	**16.41**	0.0016	30	2J
								Totals	**6,839,548**	**790,988**	**7,630,536**	**11.8062**		**DIFF =**	**4.60**	NOTE: Construction Plans Provided - 30" Pipe Minimum Design Slope = 0.16%		

TABLE 5-4
City of Sachse Sanitary Sewer Study
Existing Pipe Size Check

No. 15	EXISTING NORTHWEST 8" TRUNK LINE TO CITY OF GARLAND CROSSING MURPHY ROAD - EXISTING FLOWS																	
Area No.	Area Size (Acres)	Design Land Use	Lots Per Acre	Future Lot Factor	No. of Lots	Populat. Per Unit/Lot	Usage Per Resident (gpd)	Peak Factor	Peak Flow (gpd)	Inflow/Inflt (400 gad)	Total Flow (gpd)	Total Flow (cfs)	Accum. Flow (gpd)	Accum. Flow (cfs)	Pipe Capacity (cfs)	Pipe Slope (ft/ft)	Pipe Size (Inches)	Area No.
4A	80.86	Residential	4.0	-	323	3.0	100	5.00	485,160	32,344	517,504	0.8007	**517,504**	**0.80**				4A
4B	84.88	Residential	2.0	-	170	3.0	100	4.85	247,001	33,952	280,953	0.4347	**798,457**	**1.24**				4B
4C	192.91	Residential	1.0	0.15	222	3.0	100	4.63	308,145	77,164	385,309	0.5962	**1,183,766**	**1.83**				4C
4D	1.61	Multi-Family	20.0	-	32	3.0	100	4.50	43,470	644	44,114	0.0683	**1,227,880**	**1.90**				4D
4E	52.16	Commercial	-	-	-	-	1200	3.45	215,942	20,864	236,806	0.3664	**1,464,686**	**2.27**				4E
4F	5.63	School/Semi-Public	-	-	-	600	15	3.39	30,510	2,252	32,762	0.0507	**1,497,448**	**2.32**	**0.94**	0.0060	8	4F
								Totals	**1,330,228**	**167,220**	**1,497,448**	**2.3169**		**DIFF =**	**-1.38**			

NOTE: No Construction Plans Provided -
8" Pipe Estimated Minimum Design Slope = 0.60%
Required Slope Needed for 2.68 cfs = 5.00%

TABLE 5-5
City of Sachse Sanitary Sewer Study
Ultimate Pipe Size Check

No. 1	EXISTING 27" TRUNK LINE (AREA 2) TO MERRITT ROAD LIFT STATION - ULTIMATE DESIGN FLOWS																	
Area No.	Area Size (Acres)	Design Land Use	Lots Per Acre	Future Lot Factor	No. of Lots	Populat. Per Unit/Lot	Usage Per Resident (gpd)	Peak Factor	Peak Flow (gpd)	Inflow/Inflt (400 gad)	Total Flow (gpd)	Total Flow (cfs)	Accum. Flow (gpd)	Accum. Flow (cfs)	Pipe Capacity (cfs)	Pipe Slope (ft/ft)	Pipe Size (Inches)	Area No.
2A	325.39	Residential	6.0	-	1952	3.0	100	3.58	2,096,813	130,156	2,226,969	3.4456	**2,226,969**	**3.45**				2A
2B	150.34	Residential	5.0	-	752	3.0	100	3.33	750,948	60,136	811,084	1.2549	**3,038,053**	**4.70**				2B
2C	1029.34	Residential	4.0	-	4117	3.0	100	2.90	3,582,103	411,736	3,993,839	6.1794	**7,031,893**	**10.88**				2C
2D	493.31	Residential	1.0	0.15	567	3.0	100	2.80	476,537	197,324	673,861	1.0426	**7,705,754**	**11.92**				2D
2E	30.88	Multi-Family	20.0	-	618	3.0	100	2.76	511,373	12,352	523,725	0.8103	**8,229,479**	**12.73**				2E
2F	357.35	Commercial	-	-	-	-	1200	2.65	1,136,373	142,940	1,279,313	1.9794	**9,508,792**	**14.71**				2F
2G	1.77	Church	-	-	-	600	15	2.65	23,850	708	24,558	0.0380	**9,533,350**	**14.75**				2G
2H	80.43	School/Semi-Public	-	-	-	600	15	2.64	23,760	32,172	55,932	0.0865	**9,589,282**	**14.84**				2H
2I	25.31	Park Land	10.0	-	253	3.0	100	2.63	199,696	10,124	209,820	0.3246	**9,799,102**	**15.16**	**8.19**	0.0007	27	2I
								Totals	**8,801,454**	**997,648**	**9,799,102**	**15.1615**		**DIFF =**	**-6.97**	NOTE: Asbuilt Plans Provided		

No. 2	EXISTING 15" TRUNK LINE (AREA 2) TO MERRITT ROAD LIFT STATION - ULTIMATE DESIGN FLOWS																	
Area No.	Area Size (Acres)	Design Land Use	Lots Per Acre	Future Lot Factor	No. of Lots	Populat. Per Unit/Lot	Usage Per Resident (gpd)	Peak Factor	Peak Flow (gpd)	Inflow/Inflt (400 gad)	Total Flow (gpd)	Total Flow (cfs)	Accum. Flow (gpd)	Accum. Flow (cfs)	Pipe Capacity (cfs)	Pipe Slope (ft/ft)	Pipe Size (Inches)	Area No.
2A	121.41	Residential	5.0	-	607	3.0	100	4.79	872,331	48,564	920,895	1.4248	**920,895**	**1.42**				2A
2B	182.27	Residential	4.0	-	729	3.0	100	3.85	842,087	72,908	914,995	1.4157	**1,835,890**	**2.84**				2B
2C	46.13	Residential	2.0	-	92	3.0	100	3.80	105,176	18,452	123,628	0.1913	**1,959,519**	**3.03**				2C
2D	41.34	Residential	1.0	0.15	48	3.0	100	3.76	53,626	16,536	70,162	0.1086	**2,029,681**	**3.14**				2D
2E	6.59	Commercial	-	-	-	-	1200	3.15	24,910	2,636	27,546	0.0426	**2,057,227**	**3.18**				2E
2F	2.37	Church	-	-	-	600	15	3.13	28,170	948	29,118	0.0451	**2,086,345**	**3.23**				2F
2G	7.08	School/Semi-Public	-	-	-	600	15	3.12	28,080	2,832	30,912	0.0478	**2,117,257**	**3.28**				2G
2H	5.94	Park Land	10.0	-	59	3.0	100	3.11	55,420	2,376	57,796	0.0894	**2,175,053**	**3.37**	**5.78**	0.008	15	2H
								Totals	**2,009,801**	**165,252**	**2,175,053**	**3.3653**		**DIFF =**	**2.41**	NOTE: Asbuilt Plans Provided		

No. 3	EXISTING 27" TRUNK LINE (AREA 2) TO MERRITT ROAD LIFT STATION WITHOUT SACHSE ROAD LIFT STATION FLOWS INCLUDED - ULTIMATE DESIGN FLOWS																	
Area No.	Area Size (Acres)	Design Land Use	Lots Per Acre	Future Lot Factor	No. of Lots	Populat. Per Unit/Lot	Usage Per Resident (gpd)	Peak Factor	Peak Flow (gpd)	Inflow/Inflt (400 gad)	Total Flow (gpd)	Total Flow (cfs)	Accum. Flow (gpd)	Accum. Flow (cfs)	Pipe Capacity (cfs)	Pipe Slope (ft/ft)	Pipe Size (Inches)	Area No.
2A	58.75	Residential	6.0	-	353	3.0	100	4.95	523,463	23,500	546,963	0.8463	**546,963**	**0.85**				2A
2B	150.34	Residential	5.0	-	752	3.0	100	3.99	899,785	60,136	959,921	1.4852	**1,506,883**	**2.33**				2B
2C	762.01	Residential	4.0	-	3048	3.0	100	3.10	2,834,677	304,804	3,139,481	4.8575	**4,646,365**	**7.19**				2C
2D	493.31	Residential	1.0	0.15	567	3.0	100	3.06	520,787	197,324	718,111	1.1111	**5,364,476**	**8.30**				2D
2E	219.43	Commercial	-	-	-	-	1200	2.91	766,250	87,772	854,022	1.3214	**6,218,498**	**9.62**				2E
2F	1.77	Church	-	-	-	600	15	2.90	26,100	708	26,808	0.0415	**6,245,306**	**9.66**				2F
2G	54.74	School/Semi-Public	-	-	-	600	15	2.89	26,010	21,896	47,906	0.0741	**6,293,212**	**9.74**				2G
2H	19.81	Park Land	-	-	-	600	15	2.85	25,650	7,924	33,574	0.0519	**6,326,786**	**9.79**	**8.19**	0.0007	27	2H
								Totals	**5,622,722**	**704,064**	**6,326,786**	**9.7890**		**DIFF =**	**-1.60**	NOTE: Asbuilt Plans Provided		

TABLE 5-5
City of Sachse Sanitary Sewer Study
Ultimate Pipe Size Check

No. 4	EXISTING 18" TRUNK LINE (AREA 2) TO SACHSE ROAD LIFT STATION - ULTIMATE DESIGN FLOWS																	
Area No.	Area Size (Acres)	Design Land Use	Lots Per Acre	Future Lot Factor	No. of Lots	Populat. Per Unit/Lot	Usage Per Resident (gpd)	Peak Factor	Peak Flow (gpd)	Inflow/Inflt (400 gad)	Total Flow (gpd)	Total Flow (cfs)	Accum. Flow (gpd)	Accum. Flow (cfs)	Pipe Capacity (cfs)	Pipe Slope (ft/ft)	Pipe Size (Inches)	Area No.
2A	266.67	Residential	6.0	-	1600	3.0	100	3.68	1,766,422	106,668	1,873,090	2.8981	**1,873,090**	**2.90**				2A
2B	372.26	Residential	4.0	-	1489	3.0	100	3.25	1,451,814	148,904	1,600,718	2.4767	**3,473,808**	**5.37**				2B
2C	22.23	Multi-Family	20.0	-	445	3.0	100	3.15	420,147	8,892	429,039	0.6638	**3,902,847**	**6.04**				2C
2D	118.63	Commercial	-	-	-	-	1200	2.88	409,985	47,452	457,437	0.7078	**4,360,284**	**6.75**				2D
2E	12.33	School/Semi-Public	-	-	-	600	15	2.86	25,740	4,932	30,672	0.0475	**4,390,956**	**6.79**				2E
2F	5.51	Park Land	-	-	-	600	15	2.85	25,650	2,204	27,854	0.0431	**4,418,810**	**6.84**	**5.66**	0.0029	18	2F
								Totals	**4,099,758**	**319,052**	**4,418,810**	**6.8369**		**DIFF =**	**-1.18**	NOTE: Asbuilt Plans Provided		

No. 5	EXISTING 12" TRUNK LINE (AREA 2) FROM NORTHWEST SACHSE: NORTH OF 78 ROW - ULTIMATE DESIGN FLOWS																	
Area No.	Area Size (Acres)	Design Land Use	Lots Per Acre	Future Lot Factor	No. of Lots	Populat. Per Unit/Lot	Usage Per Resident (gpd)	Peak Factor	Peak Flow (gpd)	Inflow/Inflt (400 gad)	Total Flow (gpd)	Total Flow (cfs)	Accum. Flow (gpd)	Accum. Flow (cfs)	Pipe Capacity (cfs)	Pipe Slope (ft/ft)	Pipe Size (Inches)	Area No.
2A	398.04	Residential	4.0	-	1592	3.0	100	3.70	1,767,298	159,216	1,926,514	2.9808	**1,926,514**	**2.98**				2A
2B	22.99	Residential	1.0	0.15	26	3.0	100	3.67	29,109	9,196	38,305	0.0593	**1,964,818**	**3.04**				2B
2C	9.34	Commercial	-	-	-	-	1200	3.59	40,250	3,737	43,987	0.0681	**2,008,805**	**3.11**				2C
2D	1.77	Church	-	-	-	600	15	3.57	32,130	708	32,838	0.0508	**2,041,643**	**3.16**				2D
2E	13.27	School/Semi-Public	-	-	-	600	15	3.47	31,230	5,308	36,538	0.0565	**2,078,181**	**3.22**	**2.39**	0.0045	12	2E
								Totals	**1,900,016**	**178,165**	**2,078,181**	**3.2154**		**DIFF =**	**-0.83**	NOTE: Asbuilt Plans Provided		

No. 6	EXISTING 18" TRUNK LINE (AREA 2) FROM NORTHWEST SACHSE: SOUTH OF 78 ROW - ULTIMATE DESIGN FLOWS																	
Area No.	Area Size (Acres)	Design Land Use	Lots Per Acre	Future Lot Factor	No. of Lots	Populat. Per Unit/Lot	Usage Per Resident (gpd)	Peak Factor	Peak Flow (gpd)	Inflow/Inflt (400 gad)	Total Flow (gpd)	Total Flow (cfs)	Accum. Flow (gpd)	Accum. Flow (cfs)	Pipe Capacity (cfs)	Pipe Slope (ft/ft)	Pipe Size (Inches)	Area No.
2A	419.24	Residential	4.0	-	1677	3.0	100	3.67	1,846,333	167,696	2,014,029	3.1162	**2,014,029**	**3.12**				2A
2B	23.23	Residential	5.0	-	116	3.0	100	3.65	127,184	9,292	136,476	0.2112	**2,150,505**	**3.33**				2B
2C	22.99	Residential	1.0	0.15	26	3.0	100	3.63	28,792	9,196	37,988	0.0588	**2,188,493**	**3.39**				2C
2D	8.69	Multi-Family	20.0	-	174	3.0	100	3.57	186,140	3,476	189,616	0.2934	**2,378,109**	**3.68**				2D
2D	195.05	Commercial	-	-	-	-	1200	2.80	655,368	78,020	733,388	1.1347	**3,111,497**	**4.81**				2D
2E	4.31	Park Land	-	-	-	600	15	2.77	24,930	1,724	26,654	0.0412	**3,138,151**	**4.86**				2E
2F	1.77	Church	-	-	-	600	15	2.76	24,840	708	25,548	0.0395	**3,163,699**	**4.89**				2F
2H	13.27	School/Semi-Public	-	-	-	600	15	2.75	24,750	5,308	30,058	0.0465	**3,193,757**	**4.94**	**8.14**	0.0060	18	2H
								Totals	**2,918,337**	**275,420**	**3,193,757**	**4.9415**		**DIFF =**	**3.20**	NOTE: Asbuilt Plans Provided		

TABLE 5-5
City of Sachse Sanitary Sewer Study
Ultimate Pipe Size Check

No. 7	EXISTING 18" TRUNK LINE (AREA 2) SOUTH OF INTERSECTION OF SACHSE ROAD AND BAILEY ROAD: ALONG NORTH ROW LINE OF SACHSE ROAD - ULTIMATE DESIGN FLOWS																	
Area No.	Area Size (Acres)	Design Land Use	Lots Per Acre	Future Lot Factor	No. of Lots	Populat. Per Unit/Lot	Usage Per Resident (gpd)	Peak Factor	Peak Flow (gpd)	Inflow/Inflt (400 gad)	Total Flow (gpd)	Total Flow (cfs)	Accum. Flow (gpd)	Accum. Flow (cfs)	Pipe Capacity (cfs)	Pipe Slope (ft/ft)	Pipe Size (Inches)	Area No.
2A	502.70	Residential	4.0	-	2011	3.0	100	3.57	2,153,567	201,080	2,354,647	3.6432	**2,354,647**	**3.64**				2A
2B	150.32	Residential	5.0	-	752	3.0	100	3.34	753,103	60,128	813,231	1.2583	**3,167,878**	**4.90**				2B
2C	22.99	Residential	1.0	0.15	26	3.0	100	3.33	26,412	9,196	35,608	0.0551	**3,203,486**	**4.96**				2C
2D	8.69	Multi-Family	20.0	-	174	3.0	100	3.32	173,105	3,476	176,581	0.2732	**3,380,067**	**5.23**				2D
2E	215.47	Commercial	-	-	-	-	1200	2.67	690,366	86,188	776,554	1.2015	**4,156,621**	**6.43**				2E
2F	4.31	Park Land	-	-	-	600	15	2.66	23,940	1,724	25,664	0.0397	**4,182,285**	**6.47**				2F
2G	1.77	Church	-	-	-	600	15	2.66	23,940	708	24,648	0.0381	**4,206,933**	**6.51**				2G
2I	13.27	School/Semi-Public	-	-	-	600	15	2.65	23,850	5,308	29,158	0.0451	**4,236,091**	**6.55**	**8.47**	0.0065	18	2I
								Totals	**3,868,283**	**367,808**	**4,236,091**	**6.5542**		**DIFF =**	**1.92**	NOTE: Asbuilt Plans Provided		

No. 8	EXISTING 27" TRUNK LINE (AREA 2) AT INTERSECTION OF SACHSE ROAD AND MERRITT ROAD: ON SOUTHEAST CORNER - ULTIMATE DESIGN FLOWS																	
Area No.	Area Size (Acres)	Design Land Use	Lots Per Acre	Future Lot Factor	No. of Lots	Populat. Per Unit/Lot	Usage Per Resident (gpd)	Peak Factor	Peak Flow (gpd)	Inflow/Inflt (400 gad)	Total Flow (gpd)	Total Flow (cfs)	Accum. Flow (gpd)	Accum. Flow (cfs)	Pipe Capacity (cfs)	Pipe Slope (ft/ft)	Pipe Size (Inches)	Area No.
2A	325.42	Residential	6.0	-	1953	3.0	100	3.60	2,108,722	130,168	2,238,890	3.4641	**2,238,890**	**3.46**				2A
2B	150.32	Residential	5.0	-	752	3.0	100	3.35	755,358	60,128	815,486	1.2617	**3,054,376**	**4.73**				2B
2C	998.72	Residential	4.0	-	3995	3.0	100	2.90	3,475,546	399,488	3,875,034	5.9956	**6,929,409**	**10.72**				2C
2D	203.73	Residential	1.0	0.15	234	3.0	100	2.89	203,129	81,492	284,621	0.4404	**7,214,030**	**11.16**				2D
2E	30.88	Multi-Family	20.0	-	618	3.0	100	2.80	518,784	12,352	531,136	0.8218	**7,745,166**	**11.98**				2E
2F	357.35	Commercial	-	-	-	-	1200	2.36	1,012,015	142,940	1,154,955	1.7870	**8,900,121**	**13.77**				2F
2G	1.77	Church	-	-	-	600	15	2.35	21,150	708	21,858	0.0338	**8,921,979**	**13.80**				2G
2H	80.43	School/Semi-Public	-	-	-	600	15	2.34	21,060	32,172	53,232	0.0824	**8,975,211**	**13.89**				2H
2I	25.31	Park Land	-	-	-	600	15	2.33	20,970	10,124	31,094	0.0481	**9,006,305**	**13.93**	**26.10**	0.0071	27	2I
								Totals	**8,136,733**	**869,572**	**9,006,305**	**13.9348**		**DIFF =**	**12.17**	NOTE: Asbuilt Plans Provided		

No. 9	EXISTING 15" TRUNK LINE (AREA 1) ON NORTH SIDE OF BUNKER HILL ROAD - ULTIMATE DESIGN FLOWS																	
Area No.	Area Size (Acres)	Design Land Use	Lots Per Acre	Future Lot Factor	No. of Lots	Populat. Per Unit/Lot	Usage Per Resident (gpd)	Peak Factor	Peak Flow (gpd)	Inflow/Inflt (400 gad)	Total Flow (gpd)	Total Flow (cfs)	Accum. Flow (gpd)	Accum. Flow (cfs)	Pipe Capacity (cfs)	Pipe Slope (ft/ft)	Pipe Size (Inches)	Area No.
1A	30.20	Residential	6.0	-	181	3.0	100	5.00	271,800	12,080	283,880	0.4392	**283,880**	**0.44**				1A
1B	96.91	Residential	5.0	-	485	3.0	100	4.65	675,947	38,764	714,711	1.1058	**998,591**	**1.55**				1B
1C	106.60	Residential	4.0	-	426	3.0	100	4.00	511,680	42,640	554,320	0.8577	**1,552,911**	**2.40**				1C
1D	24.09	Residential	2.0	-	48	3.0	100	3.96	57,238	9,636	66,874	0.1035	**1,619,785**	**2.51**				1D
1E	55.49	Residential	1.0	0.15	64	3.0	100	3.94	75,428	22,196	97,624	0.1510	**1,717,409**	**2.66**				1E
1F	1.11	Multi-Family	20.0	-	22	3.0	100	3.94	26,240	444	26,684	0.0413	**1,744,093**	**2.70**				1F
1G	13.98	Duplex	4.0	-	56	6.0	100	3.85	129,175	5,592	134,767	0.2085	**1,878,860**	**2.91**				1G
1H	62.34	Commercial	-	-	-	-	1200	3.45	258,088	24,936	283,024	0.4379	**2,161,884**	**3.34**				1H
1I	19.01	School/Semi-Public	-	-	-	600	15	3.38	30,420	7,604	38,024	0.0588	**2,199,908**	**3.40**	**4.57**	0.0050	15	1I
								Totals	**2,036,016**	**163,892**	**2,199,908**	**3.4038**		**DIFF =**	**1.17**	NOTE: Asbuilt Plans Provided		

TABLE 5-5
City of Sachse Sanitary Sewer Study
Ultimate Pipe Size Check

No. 10	EXISTING 18" TRUNK LINE (AREA 2) FROM NORTHWEST SACHSE: SOUTH OF 78 ROW - ULTIMATE DESIGN FLOWS																	
Area No.	Area Size (Acres)	Design Land Use	Lots Per Acre	Future Lot Factor	No. of Lots	Populat. Per Unit/Lot	Usage Per Resident (gpd)	Peak Factor	Peak Flow (gpd)	Inflow/Inflt (400 gad)	Total Flow (gpd)	Total Flow (cfs)	Accum. Flow (gpd)	Accum. Flow (cfs)	Pipe Capacity (cfs)	Pipe Slope (ft/ft)	Pipe Size (Inches)	Area No.
2A	398.04	Residential	4.0	-	1592	3.0	100	3.70	1,767,298	159,216	1,926,514	2.9808	**1,926,514**	**2.98**				2A
2B	22.99	Residential	1.0	0.15	26	3.0	100	3.68	29,188	9,196	38,384	0.0594	**1,964,898**	**3.04**				2B
2D	8.69	Multi-Family	20.0	-	174	3.0	100	3.65	190,311	3,476	193,787	0.2998	**2,158,685**	**3.34**				2D
2C	153.52	Commercial	-	-	-	-	1200	2.91	536,092	61,408	597,500	0.9245	**2,756,185**	**4.26**				2C
2D	1.77	Church	-	-	-	600	15	2.90	26,100	708	26,808	0.0415	**2,782,993**	**4.31**				2D
2E	13.27	School/Semi-Public	-	-	-	600	15	2.89	26,010	5,308	31,318	0.0485	**2,814,311**	**4.35**	**8.14**	0.0060	18	2E
								Totals	**2,574,999**	**239,312**	**2,814,311**	**4.3544**		**DIFF =**	**3.79**	NOTE: Asbuilt Plans Provided		

No. 11	EXISTING 24" TRUNK LINE (AREA 2) AT INTERSECTION OF SACHSE ROAD AND MERRITT ROAD: ON SOUTHEAST CORNER - ULTIMATE DESIGN FLOWS																	
Area No.	Area Size (Acres)	Design Land Use	Lots Per Acre	Future Lot Factor	No. of Lots	Populat. Per Unit/Lot	Usage Per Resident (gpd)	Peak Factor	Peak Flow (gpd)	Inflow/Inflt (400 gad)	Total Flow (gpd)	Total Flow (cfs)	Accum. Flow (gpd)	Accum. Flow (cfs)	Pipe Capacity (cfs)	Pipe Slope (ft/ft)	Pipe Size (Inches)	Area No.
2A	150.32	Residential	5.0	-	752	3.0	100	4.50	1,014,660	60,128	1,074,788	1.6629	**1,074,788**	**1.66**				2A
2B	502.70	Residential	4.0	-	2011	3.0	100	3.35	2,020,854	201,080	2,221,934	3.4378	**3,296,722**	**5.10**				2B
2C	245.38	Residential	1.0	0.15	282	3.0	100	3.26	275,979	98,152	374,131	0.5789	**3,670,853**	**5.68**				2C
2D	13.49	Multi-Family	20.0	-	270	3.0	100	3.25	263,055	5,396	268,451	0.4154	**3,939,304**	**6.10**				2D
2E	219.43	Commercial	-	-	-	-	1200	2.66	700,421	87,772	788,193	1.2195	**4,727,496**	**7.31**				2E
2F	1.77	Church	-	-	-	600	15	2.65	23,850	708	24,558	0.0380	**4,752,054**	**7.35**				2F
2G	43.01	School/Semi-Public	-	-	-	600	15	2.65	23,850	17,204	41,054	0.0635	**4,793,108**	**7.42**				2G
2H	4.31	Park Land	-	-	-	600	15	2.64	23,760	1,724	25,484	0.0394	**4,818,592**	**7.46**	**6.79**	0.0009	24	2H
								Totals	**4,346,428**	**472,164**	**4,818,592**	**7.4555**		**DIFF =**	**-0.67**	NOTE: Asbuilt Plans Provided		

No. 12	EXISTING 15" TRUNK LINE (AREA 2) ON NORTH SIDE OF SH 78 ROW - ULTIMATE DESIGN FLOWS																	
Area No.	Area Size (Acres)	Design Land Use	Lots Per Acre	Future Lot Factor	No. of Lots	Populat. Per Unit/Lot	Usage Per Resident (gpd)	Peak Factor	Peak Flow (gpd)	Inflow/Inflt (400 gad)	Total Flow (gpd)	Total Flow (cfs)	Accum. Flow (gpd)	Accum. Flow (cfs)	Pipe Capacity (cfs)	Pipe Slope (ft/ft)	Pipe Size (Inches)	Area No.
2A	346.68	Residential	4.0	-	1387	3.0	100	3.84	1,597,501	138,672	1,736,173	2.6863	**1,736,173**	**2.69**				2A
2D	8.69	Multi-Family	20.0	-	174	3.0	100	3.74	195,004	3,476	198,480	0.3071	**1,934,653**	**2.99**				2D
2E	78.92	Commercial	-	-	-	-	1200	3.14	297,371	31,568	328,939	0.5089	**2,263,592**	**3.50**				2E
2B	12.33	School/Semi-Public	-	-	-	600	15	3.10	27,900	4,932	32,832	0.0508	**2,296,424**	**3.55**	**6.93**	0.0115	15	2B
								Totals	**2,117,776**	**178,648**	**2,296,424**	**3.5531**		**DIFF =**	**3.38**	NOTE: Asbuilt Plans Provided		

TABLE 5-5
City of Sachse Sanitary Sewer Study
Ultimate Pipe Size Check

No. 13	EXISTING 30" TRUNK LINE TO CITY OF GARLAND CROSSING BUNKER HILL ROAD - ULTIMATE DESIGN FLOWS WITH SACHSE ROAD LIFT STATION FLOWS																	
Area No.	Area Size (Acres)	Design Land Use	Lots Per Acre	Future Lot Factor	No. of Lots	Populat. Per Unit/Lot	Usage Per Resident (gpd)	Peak Factor	Peak Flow (gpd)	Inflow/Inflt (400 gad)	Total Flow (gpd)	Total Flow (cfs)	Accum. Flow (gpd)	Accum. Flow (cfs)	Pipe Capacity (cfs)	Pipe Slope (ft/ft)	Pipe Size (Inches)	Area No.
2A	355.59	Residential	6.0	-	2134	3.0	100	3.53	2,259,419	142,236	2,401,655	3.7159	**2,401,655**	**3.72**				2A
2B	618.07	Residential	5.0	-	3090	3.0	100	3.05	2,827,670	247,228	3,074,898	4.7576	**5,476,553**	**8.47**				2B
2C	1318.21	Residential	4.0	-	5273	3.0	100	2.65	4,191,908	527,284	4,719,192	7.3017	**10,195,745**	**15.78**				2C
2D	70.22	Residential	2.0	-	140	3.0	100	2.64	111,228	28,088	139,316	0.2156	**10,335,061**	**15.99**				2D
2E	590.14	Residential	1.0	0.15	679	3.0	100	2.63	535,464	236,056	771,520	1.1937	**11,106,581**	**17.18**				2E
2F	31.99	Multi-Family	20.0	-	640	3.0	100	2.60	499,044	12,796	511,840	0.7919	**11,618,421**	**17.98**				2F
2G	648.03	Commercial	-	-	-	-	1200	1.80	1,399,745	259,212	1,658,957	2.5668	**13,277,378**	**20.54**				2G
2H	4.14	Church	-	-	-	600	15	1.78	16,020	1,656	17,676	0.0273	**13,295,054**	**20.57**				2H
2I	155.40	School/Semi-Public	-	-	-	600	15	1.75	15,750	62,160	77,910	0.1205	**13,372,964**	**20.69**				2I
2J	76.72	High School	-	-	-	2500	20	1.72	86,000	30,688	116,688	0.1805	**13,489,652**	**20.87**				2J
2K	68.55	Park Land	-	-	-	600	15	1.70	15,300	27,420	42,720	0.0661	**13,532,372**	**20.94**	**16.41**	0.0016	30	2K
								Totals	**11,957,548**	**1,574,824**	**13,532,372**	**20.9377**		**DIFF =**	**-4.53**	NOTE: Construction Plans Provided - 30" Pipe Design Slope = 0.16%		

No. 14	EXISTING 30" TRUNK LINE TO CITY OF GARLAND CROSSING BUNKER HILL ROAD - ULTIMATE DESIGN FLOWS WITHOUT SACHSE ROAD LIFT STATION FLOWS																	
Area No.	Area Size (Acres)	Design Land Use	Lots Per Acre	Future Lot Factor	No. of Lots	Populat. Per Unit/Lot	Usage Per Resident (gpd)	Peak Factor	Peak Flow (gpd)	Inflow/Inflt (400 gad)	Total Flow (gpd)	Total Flow (cfs)	Accum. Flow (gpd)	Accum. Flow (cfs)	Pipe Capacity (cfs)	Pipe Slope (ft/ft)	Pipe Size (Inches)	Area No.
2A	88.92	Residential	6.0	-	534	3.0	100	4.84	774,671	35,568	810,239	1.2536	**810,239**	**1.25**				2A
2B	618.07	Residential	5.0	-	3090	3.0	100	3.15	2,920,381	247,228	3,167,609	4.9010	**3,977,848**	**6.15**				2B
2C	945.95	Residential	4.0	-	3784	3.0	100	2.81	3,189,743	378,380	3,568,123	5.5207	**7,545,971**	**11.68**				2C
2D	70.22	Residential	2.0	-	140	3.0	100	2.80	117,970	28,088	146,058	0.2260	**7,692,029**	**11.90**				2D
2E	590.14	Residential	1.0	0.15	679	3.0	100	2.76	561,931	236,056	797,987	1.2347	**8,490,016**	**13.14**				2E
2F	9.76	Multi-Family	20.0	-	195	3.0	100	2.75	161,040	3,904	164,944	0.2552	**8,654,960**	**13.39**				2F
2G	529.40	Commercial	-	-	-	-	1200	2.18	1,384,910	211,760	1,596,670	2.4704	**10,251,630**	**15.86**				2G
2H	4.14	Church	-	-	-	600	15	2.17	19,530	1,656	21,186	0.0328	**10,272,816**	**15.89**				2H
2I	143.07	School/Semi-Public	-	-	-	600	15	2.16	19,440	57,228	76,668	0.1186	**10,349,484**	**16.01**				2I
2J	76.72	High School	-	-	-	2500	20	2.13	106,500	30,688	137,188	0.2123	**10,486,672**	**16.23**				2J
2K	63.04	Park Land	-	-	-	600	15	2.10	18,900	25,216	44,116	0.0683	**10,530,788**	**16.29**	**16.41**	0.0016	30	2K
								Totals	**9,275,016**	**1,255,772**	**10,530,788**	**16.2935**		**DIFF =**	**0.12**	NOTE: Construction Plans Provided - 30" Pipe Minimum Design Slope = 0.16%		

TABLE 5-5
City of Sachse Sanitary Sewer Study
Ultimate Pipe Size Check

No. 15	EXISTING NORTHWEST 8" TRUNK LINE TO CITY OF GARLAND CROSSING MURPHY ROAD - ULTIMATE FLOWS																	
Area No.	Area Size (Acres)	Design Land Use	Lots Per Acre	Future Lot Factor	No. of Lots	Populat. Per Unit/Lot	Usage Per Resident (gpd)	Peak Factor	Peak Flow (gpd)	Inflow/Inflt (400 gad)	Total Flow (gpd)	Total Flow (cfs)	Accum. Flow (gpd)	Accum. Flow (cfs)	Pipe Capacity (cfs)	Pipe Slope (ft/ft)	Pipe Size (Inches)	Area No.
4A	80.86	Residential	4.0	-	323	3.0	100	5.00	485,160	32,344	517,504	0.8007	**517,504**	**0.80**				4A
4B	84.88	Residential	2.0	-	170	3.0	100	4.85	247,001	33,952	280,953	0.4347	**798,457**	**1.24**				4B
4C	228.31	Residential	1.0	0.15	263	3.0	100	4.57	359,965	91,324	451,289	0.6982	**1,249,746**	**1.93**				4C
4D	4.40	Multi-Family	20.0	-	88	3.0	100	4.50	118,800	1,760	120,560	0.1865	**1,370,306**	**2.12**				4D
4E	79.93	Commercial	-	-	-	-	1200	3.13	300,217	31,972	332,189	0.5140	**1,702,495**	**2.63**				4E
4F	9.15	School/Semi-Public	-	-	-	600	15	3.09	27,810	3,660	31,470	0.0487	**1,733,965**	**2.68**	**0.94**	0.0060	8	4F
								Totals	**1,538,953**	**195,012**	**1,733,965**	**2.6828**		**DIFF =**	**-1.74**			

NOTE: No Construction Plans Provided -
8" Pipe Estimated Minimum Design Slope = 0.60%
Required Slope Needed for 2.68 cfs = 5.00%

TABLE 5-6
City of Sachse Sanitary Sewer Study
Existing & Future Areas (1, 2A & 3) (With Future Southeast Lift Station)

Area No.	Area Size (Acres)	Design Land Use	Lots Per Acre	Future Lot Factor	No. of Lots	Populat. Per Unit/Lot	Usage Per Resident (gpd)	Peak Factor	Peak Flow (gpd)	Inflow/Inflt (400 gad)	Total Flow (gpd)	Total Flow (cfs)	Accum. Flow (gpd)	Accum. Flow (cfs)	Pipe Capacity (cfs)	Pipe Slope (ft/ft)	Pipe Size (Inches)	Area No.
1A	30.20	Residential	6.0	-	181	3.0	100	5.00	271,800	12,080	283,880	0.4392	**283,880**	**0.44**				1A
1B	96.91	Residential	5.0	-	485	3.0	100	4.85	705,020	38,764	743,784	1.1508	**1,027,664**	**1.59**				1B
1C	106.60	Residential	4.0	-	426	3.0	100	4.00	511,680	42,640	554,320	0.8577	**1,581,984**	**2.45**				1C
1D	24.10	Residential	2.0	-	48	3.0	100	3.95	57,117	9,640	66,757	0.1033	**1,648,741**	**2.55**				1D
1E	55.49	Residential	1.0	0.15	64	3.0	100	3.90	74,662	22,196	96,858	0.1499	**1,745,599**	**2.70**				1E
1F	62.34	Commercial	-	-	-	-	1200	3.27	244,622	24,936	269,558	0.4171	**2,015,157**	**3.12**				1F
1G	19.01	School	-	-	-	600	15	3.26	29,340	7,604	36,944	0.0572	**2,052,101**	**3.18**				1G
1H	1.11	Multi-Family	20.0	-	22	3.0	100	3.25	21,645	444	22,089	0.0342	**2,074,190**	**3.21**				1H
1I	13.98	Duplex	4.0	-	56	6.0	100	3.15	105,689	5,592	111,281	0.1722	**2,185,471**	**3.38**				1I
2aA	58.75	Residential	6.0	-	353	3.0	100	3.13	330,998	23,500	354,498	0.5485	**2,539,969**	**3.93**				2aA
2aB	438.10	Residential	5.0	-	2191	3.0	100	3.00	1,971,450	175,240	2,146,690	3.3214	**4,686,659**	**7.25**				2aB
2aC	839.35	Residential	4.0	-	3357	3.0	100	2.70	2,719,494	335,740	3,055,234	4.7271	**7,741,893**	**11.98**				2aC
2aD	46.13	Residential	2.0	-	92	3.0	100	2.67	73,900	18,452	92,352	0.1429	**7,834,245**	**12.12**				2aD
2aE	534.65	Residential	1.0	0.15	615	3.0	100	2.65	488,804	213,860	702,664	1.0872	**8,536,909**	**13.21**				2aE
2aF	447.77	Commercial	-	-	-	-	1200	2.20	1,182,113	179,108	1,361,221	2.1061	**9,898,129**	**15.31**				2aF
2aG	4.14	Church	-	-	-	600	15	2.19	19,710	1,656	21,366	0.0331	**9,919,495**	**15.35**				2aG
2aH	110.70	School/Semi-Public	-	-	-	600	15	2.18	19,620	44,280	63,900	0.0989	**9,983,395**	**15.45**				2aH
2aI	8.69	Multi-Family	20.0	-	174	3.0	100	2.18	113,665	3,476	117,141	0.1812	**10,100,537**	**15.63**				2aI
2aJ	63.05	Park Land	-	-	-	600	15	2.17	19,530	25,220	44,750	0.0692	**10,145,287**	**15.70**				2aJ
3A	83.08	Residential	5.0	-	415	3.0	100	2.16	269,179	33,232	302,411	0.4679	**10,447,698**	**16.16**				3A
3B	76.72	High School	-	-	-	2500	20	2.13	106,500	30,688	137,188	0.2123	**10,584,886**	**16.38**	**16.41**	**0.0016**	**30**	3B
								Totals	**9,336,538**	**1,248,348**	**10,584,886**	**16.3772**		**DIFF =**	**0.03**			

TABLE 5-7
City of Sachse Sanitary Sewer Study
Existing & Future Areas (Areas 1, 2 & 3) (Without Future Southeast Lift Station)

Area No.	Area Size (Acres)	Design Land Use	Lots Per Acre	Future Lot Factor	No. of Lots	Populat. Per Unit/Lot	Usage Per Resident (gpd)	Peak Factor	Peak Flow (gpd)	Inflow/Inflt (400 gad)	Total Flow (gpd)	Total Flow (cfs)	Accum. Flow (gpd)	Accum. Flow (cfs)	Pipe Capacity (cfs)	Pipe Slope (ft/ft)	Pipe Size (Inches)	Area No.
1A	30.20	Residential	6.0	-	181	3.0	100	5.00	271,800	12,080	283,880	0.4392	**283,880**	**0.44**				1A
1B	96.91	Residential	5.0	-	485	3.0	100	4.85	705,020	38,764	743,784	1.1508	**1,027,664**	**1.59**				1B
1C	106.60	Residential	4.0	-	426	3.0	100	4.00	511,680	42,640	554,320	0.8577	**1,581,984**	**2.45**				1C
1D	24.10	Residential	2.0	-	48	3.0	100	3.95	57,117	9,640	66,757	0.1033	**1,648,741**	**2.55**				1D
1E	55.49	Residential	1.0	0.15	64	3.0	100	3.90	74,662	22,196	96,858	0.1499	**1,745,599**	**2.70**				1E
1F	62.34	Commercial	-	-	-	-	1200	3.27	244,622	24,936	269,558	0.4171	**2,015,157**	**3.12**				1F
1G	19.01	School	-	-	-	600	15	3.26	29,340	7,604	36,944	0.0572	**2,052,101**	**3.18**				1G
1H	1.11	Multi-Family	20.0	-	22	3.0	100	3.25	21,645	444	22,089	0.0342	**2,074,190**	**3.21**				1H
1I	13.98	Duplex	4.0	-	56	6.0	100	3.15	105,689	5,592	111,281	0.1722	**2,185,471**	**3.38**				1I
2A	325.39	Residential	6.0	-	1952	3.0	100	3.05	1,786,391	130,156	1,916,547	2.9653	**4,102,018**	**6.35**				2A
2B	438.10	Residential	5.0	-	2191	3.0	100	2.80	1,840,020	175,240	2,015,260	3.1181	**6,117,278**	**9.46**				2B
2C	1345.36	Residential	4.0	-	5381	3.0	100	2.58	4,165,235	538,144	4,703,379	7.2772	**10,820,657**	**16.74**				2C
2D	46.05	Residential	2.0	-	92	3.0	100	2.57	71,009	18,420	89,429	0.1384	**10,910,086**	**16.88**				2D
2E	870.00	Residential	1.0	0.15	1001	3.0	100	2.54	762,381	348,000	1,110,381	1.7180	**12,020,467**	**18.60**				2E
2F	30.88	Multi-Family	20.0	-	618	3.0	100	2.50	463,200	12,352	475,552	0.7358	**12,496,019**	**19.33**				2F
2G	952.00	Commercial	-	-	-	-	1200	1.37	1,565,088	380,800	1,945,888	3.0107	**14,441,907**	**22.34**				2G
2H	36.25	Church	-	-	-	2500	15	1.34	50,250	14,500	64,750	0.1002	**14,506,657**	**22.45**				2H
2I	136.40	School/Semi-Public	-	-	-	600	15	1.33	11,970	54,560	66,530	0.1029	**14,573,187**	**22.55**				2I
2J	57.44	High School	-	-	-	2500	20	1.31	65,500	22,976	88,476	0.1369	**14,661,663**	**22.68**				2J
2K	68.56	Park Land	-	-	-	600	15	1.30	11,700	27,424	39,124	0.0605	**14,700,787**	**22.75**				2K
3A	83.08	Residential	5.0	-	415	3.0	100	1.29	160,760	33,232	193,992	0.3001	**14,894,779**	**23.05**				3A
3B	76.72	High School	-	-	-	2500	20	1.28	64,000	30,688	94,688	0.1465	**14,989,467**	**23.19**	**16.4**	**0.0016**	**30**	3B
								Totals	**13,039,079**	**1,950,388**	**14,989,467**	**23.1921**		**DIFF =**	**-6.79**			

TABLE 6-1
City of Sachse Thoroughfare Study
Thoroughfare Order of Magnitude Summary

Priority	Description	Classification		Length (ft)	Cost Estimate				
		Existing	Proposed		Construction	Engineering/ Surveying	Right-of-Way/ Easements	Total	Cost Per Mile
1	Merritt Road (Northern Heritage Cir. to Sachse Rd.)	2 Lane Undivided	4 Lane Divided	850	$4,000,000	$308,000	$449,000	$4,757,000	$1,888,493
2	Sachse Road (SH 78 to City Limits)	2 Lane Undivided	4 Lane Divided	13,300	$22,350,000	$3,000,000	$3,840,000	$29,190,000	$11,588,211
3	5th Street (SH 78 to Sachse Rd.)	2 Lane Undivided	4 Lane Divided	1,540	$3,975,000	$250,000	$360,000	$4,585,000	$1,820,211
4	Merritt Road (City Limits to PGBT)	2 Lane Undivided	4 Lane Divided	700	$1,523,500	$183,000	$267,000	$1,973,500	$14,886,000
5	Merritt Road (PGBT to Northern Heritage Circle Intersection)	2 Lane Undivided	4 Lane Divided	7,400	$8,500,000	$1,500,000	$2,152,000	$12,152,000	$4,824,253
6	Ranch Road (Dewitt St. to Clearmeadow Ln.)	Unbuilt	2 Lane Undivided	2,070	$1,731,700	$208,000	$304,000	$2,243,700	$5,724,000
7	Maxwell Creek Road (Ranch Rd. to Bridge)	Unbuilt	2 Lane Undivided	1,000	$1,059,100	$128,000	$186,000	$1,373,100	$7,250,000
8	Blackburn Rd./ Ingram Rd. (Murphy Rd. to Dewitt Rd.)	2 Lane Undivided	4 Lane Divided	5,240	$7,306,900	$877,000	$1,279,000	$9,462,900	$9,536,000
9	Pleasant Valley Road (Merritt Rd. to City Limits)	2 Lane Undivided	4 Lane Divided	9,600	$14,200,000	$1,300,000	$2,462,000	$17,962,000	$7,130,779
10	Hudson Drive (Miles Rd. Area to Merritt Rd. Area)	Unbuilt	2 Lane Divided	2,800	$2,733,400	$329,000	$479,000	$3,541,400	$6,679,000
11	Hudson Drive (Sewell Dr. to future extension of Rosewood Ln.)	Unbuilt	4 Lane Divided	1,500	$1,806,000	$217,000	$317,000	$2,340,000	$8,237,000
12	Rosewood Lane (Existing Rosewood Ln. to Bunker Hill Rd.)	Unbuilt	2 Lane Undivided	2,130	$1,802,100	$217,000	$316,000	$2,335,100	$5,789,000
13	Pleasant Valley Road (Miles Rd. to Pleasant Valley Rd. Curve)	Unbuilt	2 Lane Undivided	3,600	$3,352,300	$403,000	$587,000	$4,342,300	$6,369,000
14	Pleasant Valley Road (Curve in Pleasant Valley Rd. to Merritt Rd.)	Unbuilt	2 Lane Undivided	1,260	$1,384,300	$167,000	$243,000	$1,794,300	$7,519,000
15	Hooper Road (SH 78 to Bailey Rd.)	2 Lane Undivided	2 Lane Undivided	850	$701,900	$85,000	$123,000	$909,900	$5,653,000
16	Bailey Road (Hooper Rd. to Sachse Rd.)	2 Lane Undivided	2 Lane Undivided	4,700	$3,682,400	$442,000	$645,000	$4,769,400	$5,358,000
17	Ben Davis Street (SH 78 to Dewitt Rd.)	2 Lane Undivided	2 Lane Undivided	1,120	$911,700	$110,000	$160,000	$1,181,700	$5,571,000
18	Dewitt Road (Ben Davis Rd. to 3rd St.)	2 Lane Undivided	2 Lane Undivided	930	$718,800	$87,000	$126,000	$931,800	$5,291,000
19	3rd Street (SH 78 to Dewitt Rd.)	2 Lane Undivided	4 Lane Divided	860	$1,303,900	$157,000	$229,000	$1,689,900	$10,376,000
20	4th Street (SH 78 to Dewitt Rd.)	2 Lane Undivided	4 Lane Divided	660	$1,012,900	$122,000	$178,000	$1,312,900	$10,504,000
21	3rd Street (SH 78 to Sachse Rd.)	2 Lane Undivided	4 Lane Divided	1,420	$1,903,000	$229,000	$334,000	$2,466,000	$9,170,000
22	3rd Street (Dewitt Rd. to Blackburn Rd.)	2 Lane Undivided	2 Lane Undivided	2,070	$1,599,900	$192,000	$280,000	$2,071,900	$5,285,000
23	Williford Road (SH 78 to Bailey Rd.)	2 Lane Undivided	2 Lane Undivided	3,640	$3,199,500	$384,000	$560,000	$4,143,500	$6,011,000
24	Ben Road (Existing Ben Rd. to Pinnacle Oaks Dr.)	Unbuilt	2 Lane Undivided	1,450	$1,085,400	$131,000	$190,000	$1,406,400	$5,122,000
25	Ben Road (Pleasant Valley Rd. to Existing Ben Rd.)	2 Lane Undivided	2 Lane Undivided	1,560	$1,205,500	$145,000	$211,000	$1,561,500	$5,286,000
26	Park Lane (SH 78 to Future Industrial Road)	Unbuilt	2 Lane Undivided	400	$345,300	$42,000	$61,000	$448,300	$5,918,000
27	Future Cody Lane (Park St. to Future Road C)	Unbuilt	2 Lane Undivided	1,000	$1,059,100	$128,000	$186,000	$1,373,100	$7,250,000
28	Future Road C (Cody Ln. to Ranch Rd.)	Unbuilt	2 Lane Undivided	1,650	$1,235,300	$149,000	$217,000	$1,601,300	$5,125,000
29	Future Road A (PGBT Frontage Rd. to future Bunker Hill Rd.)	Unbuilt	2 Lane Undivided	670	$500,300	$61,000	$88,000	$649,300	$5,117,000
30	Future Road A (Pleasant Valley Rd. to PGBT Frontage Road)	Unbuilt	2 Lane Undivided	740	$553,500	$67,000	$97,000	$717,500	$5,120,000
31	Future Road B (Pleasant Valley Rd. to Sachse Rd.)	Unbuilt	2 Lane Undivided	4,100	$3,073,000	$369,000	$538,000	$3,980,000	$5,126,000
32	Canyon Crest Lane (Clearmeadow Ln. to Cody Ln.)	Unbuilt	2 Lane Undivided	770	$688,900	$83,000	$121,000	$892,900	$6,123,000
33	Canyon Crest Lane (Larkmeadow Tr. to McCreary Rd.)	Unbuilt	2 Lane Undivided	1,000	$897,200	$108,000	$158,000	$1,163,200	$6,142,000
Total Project					$ 101,401,800	$ 12,178,000	$ 17,743,000	**$ 131,322,800**	

TABLE 6-2

LOCATION	DATE	SITE CODE	TRAFFIC COUNT	85% SPEED
Bailey Rd north of Creek Crossing	08/14/2008	00001	1742	34 m.p.h.
Bailey Rd south of Creek Crossing	08/20/2008	00002	697	34 m.p.h.
Bailey Rd south of Creek Crossing	08/21/2008	00002	741	34 m.p.h.
Creek Crossing east of Bailey Rd	09/03/2008	00003	1367	28 m.p.h.
Creek Crossing east of Bailey Rd	09/04/2008	00003	1438	27 m.p.h.
Bryan St south of Arizona St	09/09/2008	00004	1594	32 m.p.h.
Brookhollow at Alexander	09/11/2008	00005	720	23 m.p.h.
Bailey Rd north of Creek Crossing	09/16/2008	00001	1904	35 m.p.h.
Bailey Rd north of Creek Crossing	09/17/2008	00001	1862	35 m.p.h.
Blackburn Rd east of Murphy Rd	09/30/2008	00015	6520	n.a.
Blackburn Rd east of Murphy Rd	10/01/2008	00015	6775	n.a.
Woodbridge Pkwy at north end	10/08/2008	00006	5347	32 m.p.h.
Woodbridge Pkwy at north end	10/09/2008	00006	5462	33 m.p.h.
Brookview Dr btwn Brookhollow	10/15/2008	00007	291	30 m.p.h.
Brookview Dr btwn Brookhollow	10/16/2008	00007	362	30 m.p.h.
Pleasant Valley east of Merrit Rd	10/22/2008	00008	4418	45 m.p.h.
Pleasant Valley east of Merrit Rd	10/23/2008	00008	4484	46 m.p.h.
Highway 78 @ Williford	10/28/2008	by TXDOT	34,034	n.a.
Highway 78 @ Ranch/Hooper	10/28/2008	by TXDOT	33,538	n.a.
Sachse Rd at Public Works	10/29/2008	00009	4993	47 m.p.h.
Sachse Rd at Public Works	10/29/2008	00009	5211	46 m.p.h.
Merritt Rd at lift station	11/05/2008	00010	2771	52 m.p.h.
Merritt Rd at lift station	11/06/2008	00010	2791	52 m.p.h.
Miles Rd north of Old Miles	11/12/2008	00011	9569	45 m.p.h.
Miles Rd north of Old Miles	11/13/2008	00011	9796	45 m.p.h.
Bunker Hill at s. end n. of Concord Dr	12/03/2008	00012	3445	45 m.p.h.
Bunker Hill at s. end n. of Concord Dr	12/04/2008	00012	3453	45 m.p.h.
Studies are based on a time period from midnight to midnight.				

TABLE 6-2

LOCATION	DATE	SITE CODE	TRAFFIC COUNT	85% SPEED
Peachtree Ln south of Timbercreek	12/10/2008	00018	591	26 m.p.h.
Peachtree Ln south of Timbercreek	12/11/2008	00018	586	26 m.p.h.
Bailey Rd north of Creek Crossing	01/07/2009	00001	1664	30 m.p.h.
Bailey Rd north of Creek Crossing	01/08/2009	00001	1719	30 m.p.h.
Sachse Rd west of 5th St	01/14/2009	00013	8160	40 m.p.h.
Sachse Rd west of 5th St	01/15/2009	00013	7917	40 m.p.h.
Sachse Rd east of 5th St	02/05/2009	00019	10,691	39 m.p.h.
5th St south of Dewitt	02/18/2009	00014	4699	33 m.p.h.
5th St south of Dewitt	02/19/2009	00014	4745	33 m.p.h.
Maxwell Creek north of Ranch Rd	02/25/2009	00016	2935	37 m.p.h.
Maxwell Creek north of Ranch Rd	02/26/2009	00016	2854	37 m.p.h.
Ranch Rd at east end	03/04/2009	00017	2725	39 m.p.h.
Ranch Rd at east end	03/05/2009	00017	2766	39 m.p.h.
Creek Crossing east of Bailey Rd	03/18/2009	00003	1359	28 m.p.h.
Creek Crossing east of Bailey Rd	03/19/2009	00003	1418	28 m.p.h.
Bailey Rd north of Creek Crossing	03/25/2009	00001	1683	28 m.p.h.
Bailey Rd north of Creek Crossing	03/26/2009	00001	1805	28 m.p.h.
Bailey Rd south of Creek Crossing	04/01/2009	00002	656	22 m.p.h.
Bailey Rd south of Creek Crossing	04/02/2009	00002	619	22 m.p.h.
Bailey Rd north of Williford Rd	04/07/2009	00020	615	31 m.p.h.
Bailey Rd north of Williford Rd	04/08/2009	00020	721	30 m.p.h.
Bailey Rd south of Williford Rd	04/15/2009	00021	590	28 m.p.h.
Bailey Rd south of Williford Rd	04/16/2009	00021	606	28 m.p.h.
Williford Rd west of Bailey Rd	04/22/2009	00022	443	32 m.p.h.
Williford Rd west of Bailey Rd	04/23/2009	00022	438	32 m.p.h.
Bailey Rd north of Anthony Ln	05/05/2009	00023	535	29 m.p.h.
Bailey Rd north of Anthony Ln	05/06/2009	00023	564	29 m.p.h.
Studies are based on a time period from midnight to midnight.				

TABLE 6-2

LOCATION	DATE	SITE CODE	TRAFFIC COUNT	85% SPEED
Bryan St south of Arizona St	05/11/2009	00004	1737	31 m.p.h.
Bryan St south of Arizona St	05/12/2009	00004	1932	32 m.p.h.
Bryan St south of 7th St	05/14/2009	00026	1765	29 m.p.h.
Bryan St south of 7th St	05/15/2009	00026	2075	29 m.p.h.
Bailey Rd south of Anthony Ln	05/20/2009	00024	807	28 m.p.h.
Bailey Rd south of Anthony Ln	05/21/2009	00024	821	29 m.p.h.
Anthony Ln at Bailey Rd	05/27/2009	00025	218	35 m.p.h.
Anthony Ln at Bailey Rd	05/28/2009	00025	234	35 m.p.h.
Longmeadow/Wilhelmina alley	06/04/2009	00027	94	n.a.
Longmeadow/Wilhelmina alley	06/05/2009	00027	131	n.a.
Old Miles south of Bunker Hill	06/09/2009	00028	1666	37 m.p.h.
Old Miles south of Bunker Hill	06/10/2009	00028	1565	37 m.p.h.
Brookhollow at Alexander	06/17/2009	00005	591	22 m.p.h.
Brookhollow at Alexander	06/18/2009	00005	671	23 m.p.h.
Woodbridge Pkwy at north end	06/24/2009	00006	5484	34 m.p.h.
Woodbridge Pkwy at north end	06/25/2009	00006	5664	34 m.p.h.
Brookview Dr btwn Brookhollow	06/30/2009	00007	289	30 m.p.h.
Brookview Dr btwn Brookhollow	07/01/2009	00007	325	30 m.p.h.
Woodbridge Pkwy at south end	07/09/2009	00029	2252	30 m.p.h.
Woodbridge Pkwy at south end	07/10/2009	00029	2213	34 m.p.h.
Pleasant Valley east of Merrit Rd	07/15/2009	00008	4002	45 m.p.h.
Pleasant Valley east of Merrit Rd	07/16/2009	00008	4156	45 m.p.h.
Vista Valley Ln	07/21/2009	00030	266	28 m.p.h.
Vista Valley Ln	07/22/2009	00030	282	26 m.p.h.
7th St at Bryan St	07/29/2009	00031	256	21 m.p.h.
7th St at Bryan St	07/30/2009	00031	275	21 m.p.h.
Sachse Rd at Public Works	08/05/2009	00009	4961	46 m.p.h.
Studies are based on a time period from midnight to midnight.				

TABLE 6-2

LOCATION	DATE	SITE CODE	TRAFFIC COUNT	85% SPEED
Sachse Rd at Public Works	08/06/2009	00009	5197	46 m.p.h.
Merritt Rd at lift station	08/13/2009	00010	2636	52 m.p.h.
Merritt Rd at lift station	08/14/2009	00010	2867	52 m.p.h.
Miles Rd north of Old Miles	08/19/2009	00011	10287	46 m.p.h.
Miles Rd north of Old Miles	08/20/2009	00011	9047	46 m.p.h.
3rd St south of 78	01/12/2010	00032	564	24 m.p.h.
3rd St south of 78	01/13/2010	00032	586	23 m.p.h.
3rd St north of 78	01/19/2010	00033	2053	34 m.p.h.
3rd St north of 78	01/20/2010	00033	2321	32 m.p.h.
Sachse Rd south of 78	01/26/2010	00034	7090	36 m.p.h.
Sachse Rd south of 78	01/27/2010	00034	7389	35 m.p.h.
Sachse Rd at city limit	02/03/2010	00035	4191	54 m.p.h.
Sachse Rd at city limit	02/04/2010	00035	3920	55 m.p.h.
Sachse Rd btw Merritt & Woodbridge	02/17/2010	00036	8603	45 m.p.h.
Sachse Rd btw Merritt & Woodbridge	02/18/2010	00036	8635	45 m.p.h.
Bunker Hill in 4100 block area	04/06/2010	00012	2845	42 m.p.h.
Bunker Hill in 4100 block area	04/07/2010	00012	2837	42 m.p.h.
Anthony Ln at Bailey Rd	09/14/2010	00025	245	35 m.p.h.
Anthony Ln at Bailey Rd	09/15/2010	00025	228	35 m.p.h.
Bailey Rd north of Anthony Ln	09/21/2010	00023	501	29 m.p.h.
Bailey Rd north of Anthony Ln	09/22/2010	00023	527	29 m.p.h.
Country Club north of Creek Crossing	10/21/2010	00037	1536	26 m.p.h.
Country Club north of Creek Crossing	10/22/2010	00037	1640	25 m.p.h.
Bailey Rd north of Creek Crossing	12/07/2010	00001	2674	29 m.p.h.
Bailey Rd north of Creek Crossing	12/08/2010	00001	2718	29 m.p.h.
Murphy Rd north of Blackburn	12/15/2010	00038	13426	n.a.
Murphy Rd north of Blackburn	12/16/2010	00038	13729	n.a.
Studies are based on a time period from midnight to midnight.				

TABLE 6-2

LOCATION	DATE	SITE CODE	TRAFFIC COUNT	85% SPEED
Grant Dr west of Taylor Ln	01/04/2011	00039	723	28 m.p.h.
Taylor Ln	01/06/2011	00040	486	n.a.
Maxwell Creek north of Ranch Rd	03/01/2011	00016	7026	n.a.
Ranch Rd at east end	03/03/2011	00017	3895	n.a.
Creek Crossing btwn Hickory & Royal	03/08/2011	00041	2622	28 m.p.h.
Creek Crossing btwn Hickory & Royal	03/09/2011	00041	2783	28 m.p.h.
Creek Crossing btwn Hickory & Royal	03/10/2011	00041	2708	28 m.p.h.
Bailey Rd north of Creek Crossing	03/24/2011	00001	2962	n.a.
Bailey Rd south of Creek Crossing	03/31/2011	00002	838	n.a.
Blackburn Rd east of Murphy Rd	04/07/2011	00015	7790	n.a.
Merritt Rd at lift station	04/12/2011	00010	2688	n.a.
Lake Hill Trl s of Clubhouse Dr	04/14/2011	00042	267	n.a.
Bailey Rd north of Creek Crossing	04/27/2011	00001	2953	n.a.
Sachse Rd east of 5th St	05/05/2011	00019	12310	n.a.
5th St between Billingsley & Boone	05/10/2011	00043	4655	n.a.
Bryan St south of Arizona St	05/12/2011	00004	1772	n.a.
3rd St south of Ingram	05/17/2011	00044	1762	n.a.
Williford Rd east of Bryan St	05/19/2011	00045	1800	n.a.
Sachse Rd btw Merritt & Woodbridge	06/02/2011	00036	9746	n.a.
Ben Davis Rd btwn 78 & Vicksburg	06/07/2011	00046	993	n.a.
Pleasant Valley east of Merrit Rd	06/09/2011	00008	4743	n.a.
3rd St north of 78	06/14/2011	00033	1690	n.a.
Country Club at Hwy 78	06/16/2011	00047	3462	n.a.
Creek Crossing btwn Hickory & Royal	07/13/2011	00041	1934	27 m.p.h.
Creek Crossing btwn Hickory & Royal	07/14/2011	00041	2082	27 m.p.h.
Woodbridge Pkwy at north end	07/19/2011	00006	4917	n.a.
Woodbridge Pkwy at south end	07/21/2011	00029	2142	n.a.
Studies are based on a time period from midnight to midnight.				

TABLE 6-2

LOCATION	DATE	SITE CODE	TRAFFIC COUNT	85% SPEED
Sachse Rd at city limit	07/26/2011	00035	4246	n.a.
Miles Rd north of Old Miles	08/03/2011	00011	7189	n.a.
Studies are based on a time period from midnight to midnight.				

TABLE 7-1
City of Sachse Water Impact Fees
Maximum Impact Fee Determination
Water Demands by Land Use Type

Land Use	EDU/Acre	2011		2021	
		Acres	Volume (ADD)**	Acres	Volume (ADD)**
Residential (2 lots per acre)	2.0	122.00	68,320	126.05	70,588
Residential (4 lots per acre)	4.0	1,224.40	1,371,328	1,371.00	1,535,520
Residential (5 lots per acre)	5.0	486.70	681,380	582.97	816,158
Residential (6 lots per acre)	6.0	355.60	597,408	355.60	597,408
Residential (large lots acre plus)	1.0	1,125.90	315,252	1,143.10	320,068
Church	1.2	1.80	605	9.61	3,229
Commercial / Industrial	1.3	229.90	83,684	438.03	159,443
School / Semi-Public	1.3	202.70	73,783	228.15	83,047
Residential / Duplex	8.0	14.00	31,360	14.00	31,360
Multi-Family / Apartments	10.0	19.00	53,200	19.00	53,200
TOTALS		**3,782.00**	**3,276,320**	**4,287.51**	**3,670,021**

*1 EDU= 280.00 Gallons Per Day

** Average Daily Demand (ADD) in Gallons Per Day

***2021 Population Growth Projection 2.75% Based on NCTCOG Population Growth

TABLE 7-2
City of Sachse Sanitary Sewer Impact Fees
Maximum Impact Fee Determination
Sanitary Sewer Demands by Land Use Type

Land Use	EDU/Acre	2011		2021	
		Acres	Volume (ADD)**	Acres	Volume (ADD)**
Residential (2 lots per acre)	2.0	122.00	51,240	126.05	52,941
Residential (4 lots per acre)	4.0	1,224.40	1,028,496	1,371.00	1,151,640
Residential (5 lots per acre)	5.0	486.70	511,035	582.97	612,119
Residential (6 lots per acre)	6.0	355.60	448,056	355.60	448,056
Residential (large lots acre plus)	1.0	1,125.90	236,439	1,143.10	240,051
Church	1.2	1.80	454	9.61	2,422
Commercial / Industrial	1.3	229.90	62,763	438.03	119,582
School / Semi-Public	1.3	202.70	55,337	228.15	62,285
Residential / Duplex	8.0	14.00	23,520	14.00	23,520
Multi-Family / Apartments	10.0	19.00	39,900	19.00	39,900
TOTALS		**3,782.00**	**2,457,240**	**4,287.51**	**2,752,516**

*1 EDU= 210.00 Gallons Per Day

** Average Daily Demand (ADD) in Gallons Per Day

***2021 Population Growth Projection 2.75% Based on NCTCOG Population Growth

TABLE 7-3
City of Sachse Water Impact Fees
Water Project Cost Summary

A	B	C	D	E	F	G	H	I	J
No.	**Project Name**	**Qty (length)**	**Units**	**Total Item Cost**	**Easement Cost**	**Total Project Cost**	**Bonding Cost**	**Interest Payments**	**Total of Bond Payments**
						E+F	G x 6%	J-(G+4)	Sum of PMT(G+H, 3.5%) Semi-Annual Payments, 20 Years
1	Two 4.6 MGD Pumps at Public Works Pump Station	1	LS	$ 595,000.00	$ 52,100.00	$ 647,100.00	$ 38,830.00	$ 273,610.00	$ 959,540.00
2	Bunker Hill 12" Water Line (N. Segment) (by Developer)	3,200	LF	$ 344,840.00	$ 30,200.00	$ 375,040.00	$ 22,500.00	$ 158,570.00	$ 556,110.00
3	Bunker Hill 12" Water Line (S. Segment) (by Developer)	2,100	LF	$ 231,540.00	$ 20,300.00	$ 251,840.00	$ 15,110.00	$ 106,480.00	$ 373,430.00
4	12" Water Line (by Developer) SH 78 Westward to Clear Meadow Lane, then down Clear Meadow Lane (Wal-Mart Area)	5,000	LF	$ 608,040.00	$ 53,200.00	$ 661,240.00	$ 39,670.00	$ 279,580.00	$ 980,490.00
5	12" Water Line (by Developer) from Bunker Hill to Rosewood Lane	2,100	LF	$ 234,290.00	$ 20,500.00	$ 254,790.00	$ 15,290.00	$ 107,730.00	$ 377,810.00
6	12" Water Line (by Developer) from Hudson Drive to West Creek Lane	2,410	LF	$ 241,310.00	$ 21,100.00	$ 262,410.00	$ 15,740.00	$ 110,950.00	$ 389,100.00
7	12" Water Line (by Developer) from Clear Meadow Lane to Maxwell Creek Road	5,300	LF	$ 493,240.00	$ 43,200.00	$ 536,440.00	$ 32,190.00	$ 226,820.00	$ 795,450.00
8	12" Water Line (by Developer) from Canyon Crest Drive to Maxwell Creek Road at Tracey Lane	930	LF	$ 108,920.00	$ 9,500.00	$ 118,420.00	$ 7,110.00	$ 50,070.00	$ 175,600.00
9	12" Water Line connection (by Developer) from Ranch Road northward 2,500 LF	2,500	LF	$ 256,690.00	$ 22,500.00	$ 279,190.00	$ 16,750.00	$ 118,050.00	$ 413,990.00
10	12" Water Line from Miles Road, south of PGBT looped to Pleasant Valley Drive	5,200	LF	$ 470,090.00	$ 41,100.00	$ 511,190.00	$ 30,670.00	$ 216,140.00	$ 758,000.00
11	12" Water Line from Pump Station along Pleasant Valley Drive to proposed Elevated Water Tank	11,800	LF	$ 1,083,460.00	$ 94,800.00	$ 1,178,260.00	$ 70,700.00	$ 498,190.00	$ 1,747,150.00
12	Proposed 1.25 MG Elevated Water Tank	1	LS	$ 2,790,000.00	$ 500,000.00	$ 3,290,000.00	$ 197,400.00	$ 1,391,070.00	$ 4,878,470.00
13	16" Water Line from the proposed 1.25 MG Elevated Water Tank along Pleasant Valley Drive	1,150	LF	$ 222,480.00	$ 19,500.00	$ 241,980.00	$ 14,520.00	$ 102,310.00	$ 358,810.00
14	18" Water Line along Sachse Road from Pump Station to Merritt Road	4,300	LF	$ 997,860.00	$ 87,300.00	$ 1,085,160.00	$ 65,110.00	$ 458,820.00	$ 1,609,090.00
15	16" Water Line along Merritt Road from Sachse Road to Pleasant Valley	8,000	LF	$ 1,252,750.00	$ 109,600.00	$ 1,362,350.00	$ 81,740.00	$ 576,020.00	$ 2,020,110.00
16	12" Water Line in Blackburn Drive from Abilene Street to Dewitt Street	3,500	LF	$ 421,900.00	$ 36,900.00	$ 458,800.00	$ 27,530.00	$ 193,990.00	$ 680,320.00
17	12" Water Line (by Developer) from Rosewood to Merritt Road	1,900	LF	$ 203,880.00	$ 17,800.00	$ 221,680.00	$ 13,300.00	$ 93,730.00	$ 328,710.00
18	8" Water Line (by Developer) from Hunters Ridge to Merritt Road	1,800	LF	$ 136,780.00	$ 12,000.00	$ 148,780.00	$ 8,930.00	$ 62,890.00	$ 220,600.00
19	2016 Impact Fee Update	1	LS	$ 52,250.00	$ -	$ 52,250.00	$ -	$ -	$ 52,250.00
	Total =			**$ 10,745,320.00**	**$ 1,191,600.00**	**$ 11,936,920.00**	**$ 713,090.00**	**$ 5,025,020.00**	**$ 17,675,030.00**

Note: City of Sachse may re-prioritize these projects based on PM fund availability and other factors.

TABLE 7-4
City of Sachse Sanitary Sewer Impact Fees
Sanitary Sewer Project Cost Summary

A	B	C	D	E	F	G	H	I	J	K	L
Priority	**Project Description**	**Qty (length)**	**Units**	**Qty**	**Cost/Unit**	**Total Item Cost**	**Easement Cost**	**Total Project Cost**	**Bonding Cost**	**Interest Payments**	**Total of Bond Payments**
								G+H	I x 6%	L-(J+I)	Sum of PMT(I+J, 3.5%) Semi-Annual Payments, 20 Years
1	Rehab of existing Merritt Road lift station & existing Sachse Road lift station. (increase pump size to accommodate increased flows for future development)	n/a	UNIT	1	-	$ 1,015,500.00	$ 88,900.00	$ 1,104,400.00	$ 66,260.00	$ 466,960.00	$ 1,637,620.00
2	Line "G" - Future aerial crossing for 24" trunk line and meter station to Garland.	n/a	UNIT	1	-	$ 500,000.00	$ 43,800.00	$ 543,800.00	$ 32,630.00	$ 229,930.00	$ 806,360.00
3	Future lift station in southeast Sachse.	n/a	UNIT	1	-	$ 1,037,000.00	$ 90,700.00	$ 1,127,700.00	$ 67,660.00	$ 476,810.00	$ 1,672,170.00
4	Line "A" - Future 24" trunk line from Sachse Road to southeast lift station.	10,700	LF	n/a	$ 225.00	$ 2,407,500.00	$ 210,700.00	$ 2,618,200.00	$ 157,090.00	$ 1,107,020.00	$ 3,882,310.00
5	Line "G" - Future 24" trunk line from Garland interceptor line northward under George Bush Turnpike and eastward along north side of George Bush Turnpike.	4,000	LF	n/a	$ 225.00	$ 900,000.00	$ 78,800.00	$ 978,800.00	$ 58,730.00	$ 413,850.00	$ 1,451,380.00
6	Future 20" force main from future southeast lift station westward along creek and north side of George Bush Turnpike.	10,000	LF	n/a	$ 190.00	$ 1,900,000.00	$ 166,300.00	$ 2,066,300.00	$ 123,980.00	$ 873,670.00	$ 3,063,950.00
7	Line "B" - Future 10" trunk line from Lift Station north westward along creek to Willow Lake.	4,100	LF	n/a	$ 100.00	$ 410,000.00	$ 35,900.00	$ 445,900.00	$ 26,750.00	$ 188,530.00	$ 661,180.00
8	Future 8" branch lines connecting to Line "A" - 24" trunk line. (7 branch lines in southeast Sachse).	9,000	LF	n/a	$ 85.00	$ 765,000.00	$ 66,900.00	$ 831,900.00	$ 49,910.00	$ 351,740.00	$ 1,233,550.00
9	Future 8" branch lines connecting to Line "B" - 10" trunk line. (5 branch lines in southeast Sachse).	1,700	LF	n/a	$ 85.00	$ 144,500.00	$ 12,600.00	$ 157,100.00	$ 9,430.00	$ 66,430.00	$ 232,960.00
10	Line "C" - Future 12" sewer line from north side of George Bush Turnpike eastward along creek to proposed southeast lift station.	4,600	LF	n/a	$ 115.00	$ 529,000.00	$ 46,300.00	$ 575,300.00	$ 34,520.00	$ 243,250.00	$ 853,070.00
11	Future 8" sewer line along north side of George Bush Turnpike.	2,600	LF	n/a	$ 85.00	$ 221,000.00	$ 19,300.00	$ 240,300.00	$ 14,420.00	$ 101,600.00	$ 356,320.00
12	Future 8" branch line along south side and crossing to the north of George Bush Turnpike.	2,900	LF	n/a	$ 85.00	$ 246,500.00	$ 21,600.00	$ 268,100.00	$ 16,090.00	$ 113,360.00	$ 397,550.00
13	Future 8" branch line from 12" trunk line crossing creek north of George Bush Turnpike.	1,400	LF	n/a	$ 85.00	$ 119,000.00	$ 10,400.00	$ 129,400.00	$ 7,760.00	$ 54,710.00	$ 191,870.00
14	Future 8" branch line south of George Bush Turnpike from 24" trunk line eastward along church property.	2,700	LF	n/a	$ 85.00	$ 229,500.00	$ 20,100.00	$ 249,600.00	$ 14,980.00	$ 105,540.00	$ 370,120.00
15	Line "F" - Future 30" trunk line from existing Garland meter station eastward along Bunker Hill Road and northward along Miles Road.	2,900	LF	n/a	$ 280.00	$ 812,000.00	$ 71,100.00	$ 883,100.00	$ 52,990.00	$ 373,390.00	$ 1,309,480.00
16	Line "E" - Future 10" sewer line from 24" trunk line to Garland along southwest city limits line of Sachse.	2,900	LF	n/a	$ 100.00	$ 290,000.00	$ 25,400.00	$ 315,400.00	$ 18,920.00	$ 133,350.00	$ 467,670.00
17	Future 8" branch line running on west side of Heritage Park from existing 18" trunk line south of Sachse Elementary School.	800	LF	n/a	$ 85.00	$ 68,000.00	$ 6,000.00	$ 74,000.00	$ 4,440.00	$ 31,290.00	$ 109,730.00
18	Line "D" - Future 10" trunk line from existing 12" trunk line on east side of Heritage Park going southward under George Bush Turnpike.	3,700	LF	n/a	$ 100.00	$ 370,000.00	$ 32,400.00	$ 402,400.00	$ 24,140.00	$ 170,140.00	$ 596,680.00
19	2 future 8" trunk lines running in a east-west direction connecting to a 10" trunk line on the south side of George Bush Turnpike.	2,000	LF	n/a	$ 85.00	$ 170,000.00	$ 14,900.00	$ 184,900.00	$ 11,090.00	$ 78,180.00	$ 274,170.00
20	Future 8" sewer line from Hunter's Ridge lift station eastward to 12" sewer line.	1,000	LF	n/a	$ 85.00	$ 85,000.00	$ 7,400.00	$ 92,400.00	$ 5,540.00	$ 39,070.00	$ 137,010.00
21	Line "H" - Future 12" trunk line from Garland interceptor line northward to Murphy Road (Northwest Sachse).	400	LF	n/a	$ 115.00	$ 46,000.00	$ 4,000.00	$ 50,000.00	$ 3,000.00	$ 21,140.00	$ 74,140.00
22	2016 Impact Fee Update	1	LS	n/a		$ 118,250.00	$ -	$ 118,250.00	$ -	$ -	$ 118,250.00
Note: City of Sachse may re-prioritize these projects based on PM fund availability and other factors.					**Total =**	**$ 12,383,750.00**	**$ 1,073,500.00**	**$ 13,457,250.00**	**$ 800,330.00**	**$ 5,639,960.00**	**$ 19,897,540.00**

TABLE 7-5
City of Sachse Roadway Impact Fees
Roadway Project Cost Summary

A	B	C	D	E	F	G	H	I	J	K	L	M
Priority	**Description**	**Classification**		**Length (ft)**	**Cost Estimate**							
		Existing	**Proposed**		**Construction**	**Engineering/ Surveying**	**Right-of-Way/ Easements**	**Total**	**Cost Per Mile**	**Bonding Costs**	**Interest Payments**	**Total of Bond Payments**
								F+G+H		I x 6%	M-(I+K)	Sum of PMT(I+K, 3.5%) Semi-Annual Payments, 20 Years
1	Merritt Road (Northern Heritage Cir. to Sachse Rd.)	2 Lane Undivided	4 Lane Divided	850	$4,000,000	$308,000	$449,000	$4,757,000	$1,888,493	$285,420	$2,011,340	$7,053,760
2	Sachse Road (SH 78 to City Limits)	2 Lane Undivided	4 Lane Divided	13,300	$22,350,000	$3,000,000	$3,840,000	$29,190,000	$11,588,211	$1,751,400	$12,342,020	$43,283,420
3	5th Street (SH 78 to Sachse Rd.)	2 Lane Undivided	4 Lane Divided	1,540	$3,975,000	$250,000	$360,000	$4,585,000	$1,820,211	$275,100	$1,938,610	$6,798,710
4	Merritt Road (City Limits to PGBT)	2 Lane Undivided	4 Lane Divided	700	$1,523,500	$183,000	$267,000	$1,973,500	$14,886,000	$118,410	$834,430	$2,926,340
5	Merritt Road (PGBT to Northern Heritage Circle Intersection)	2 Lane Undivided	4 Lane Divided	7,400	$8,500,000	$1,500,000	$2,152,000	$12,152,000	$4,824,253	$729,120	$5,138,070	$18,019,190
6	Ranch Road (Dewitt St. to Clearmeadow Ln.)	Unbuilt	2 Lane Undivided	2,070	$1,731,700	$208,000	$304,000	$2,243,700	$5,724,000	$134,620	$948,670	$3,326,990
7	Maxwell Creek Road (Ranch Rd. to Bridge)	Unbuilt	2 Lane Undivided	1,000	$1,059,100	$128,000	$186,000	$1,373,100	$7,250,000	$82,390	$580,570	$2,036,060
8	Blackburn Rd./ Ingram Rd. (Murphy Rd. to Dewitt Rd.)	2 Lane Undivided	4 Lane Divided	5,240	$7,306,900	$877,000	$1,279,000	$9,462,900	$9,536,000	$567,770	$4,001,070	$14,031,740
9	Pleasant Valley Road (Merritt Rd. to City Limits)	2 Lane Undivided	4 Lane Divided	9,600	$14,200,000	$1,300,000	$2,462,000	$17,962,000	$7,130,779	$1,077,720	$7,594,630	$26,634,350
10	Hudson Drive (Miles Rd. Area to Merritt Rd. Area)	Unbuilt	2 Lane Divided	2,800	$2,733,400	$329,000	$479,000	$3,541,400	$6,679,000	$212,480	$1,497,360	$5,251,240
11	Hudson Drive (Sewell Dr. to future extension of Rosewood Ln.)	Unbuilt	4 Lane Divided	1,500	$1,806,000	$217,000	$317,000	$2,340,000	$8,237,000	$140,400	$989,390	$3,469,790
12	Rosewood Lane (Existing Rosewood Ln. to Bunker Hill Rd.)	Unbuilt	2 Lane Undivided	2,130	$1,802,100	$217,000	$316,000	$2,335,100	$5,789,000	$140,110	$987,320	$3,462,530
13	Pleasant Valley Road (Miles Rd. to Pleasant Valley Rd. Curve)	Unbuilt	2 Lane Undivided	3,600	$3,352,300	$403,000	$587,000	$4,342,300	$6,369,000	$260,540	$1,836,000	$6,438,840
14	Pleasant Valley Road (Curve in Pleasant Valley Rd. to Merritt Rd.)	Unbuilt	2 Lane Undivided	1,260	$1,384,300	$167,000	$243,000	$1,794,300	$7,519,000	$107,660	$758,660	$2,660,620
15	Hooper Road (SH 78 to Bailey Rd.)	2 Lane Undivided	2 Lane Undivided	850	$701,900	$85,000	$123,000	$909,900	$5,653,000	$54,590	$384,720	$1,349,210
16	Bailey Road (Hooper Rd. to Sachse Rd.)	2 Lane Undivided	2 Lane Undivided	4,700	$3,682,400	$442,000	$645,000	$4,769,400	$5,358,000	$286,160	$2,016,580	$7,072,140
17	Ben Davis Street (SH 78 to Dewitt Rd.)	2 Lane Undivided	2 Lane Undivided	1,120	$911,700	$110,000	$160,000	$1,181,700	$5,571,000	$70,900	$499,640	$1,752,240
18	Dewitt Road (Ben Davis Rd. to 3rd St.)	2 Lane Undivided	2 Lane Undivided	930	$718,800	$87,000	$126,000	$931,800	$5,291,000	$55,910	$393,980	$1,381,690
19	3rd Street (SH 78 to Dewitt Rd.)	2 Lane Undivided	4 Lane Divided	860	$1,303,900	$157,000	$229,000	$1,689,900	$10,376,000	$101,390	$714,520	$2,505,810
20	4th Street (SH 78 to Dewitt Rd.)	2 Lane Undivided	4 Lane Divided	660	$1,012,900	$122,000	$178,000	$1,312,900	$10,504,000	$78,770	$555,110	$1,946,780
21	3rd Street (SH 78 to Sachse Rd.)	2 Lane Undivided	4 Lane Divided	1,420	$1,903,000	$229,000	$334,000	$2,466,000	$9,170,000	$147,960	$1,042,670	$3,656,630
22	3rd Street (Dewitt Rd. to Blackburn Rd.)	2 Lane Undivided	2 Lane Undivided	2,070	$1,599,900	$192,000	$280,000	$2,071,900	$5,285,000	$124,310	$876,030	$3,072,240
23	Williford Road (SH 78 to Bailey Rd.)	2 Lane Undivided	2 Lane Undivided	3,640	$3,199,500	$384,000	$560,000	$4,143,500	$6,011,000	$248,610	$1,751,940	$6,144,050
24	Ben Road (Existing Ben Rd. to Pinnacle Oaks Dr.)	Unbuilt	2 Lane Undivided	1,450	$1,085,400	$131,000	$190,000	$1,406,400	$5,122,000	$84,380	$594,650	$2,085,430
25	Ben Road (Pleasant Valley Rd. to Existing Ben Rd.)	2 Lane Undivided	2 Lane Undivided	1,560	$1,205,500	$145,000	$211,000	$1,561,500	$5,286,000	$93,690	$660,230	$2,315,420
26	Park Lane (SH 78 to Future Industrial Road)	Unbuilt	2 Lane Undivided	400	$345,300	$42,000	$61,000	$448,300	$5,918,000	$26,900	$189,550	$664,750
27	Future Cody Lane (Park St. to Future Road C)	Unbuilt	2 Lane Undivided	1,000	$1,059,100	$128,000	$186,000	$1,373,100	$7,250,000	$82,390	$580,570	$2,036,060
28	Future Road C (Cody Ln. to Ranch Rd.)	Unbuilt	2 Lane Undivided	1,650	$1,235,300	$149,000	$217,000	$1,601,300	$5,125,000	$96,080	$677,060	$2,374,440
29	Future Road A (PGBT Frontage Rd. to future Bunker Hill Rd.)	Unbuilt	2 Lane Undivided	670	$500,300	$61,000	$88,000	$649,300	$5,117,000	$38,960	$274,540	$962,800
30	Future Road A (Pleasant Valley Rd. to PGBT Frontage Road)	Unbuilt	2 Lane Undivided	740	$553,500	$67,000	$97,000	$717,500	$5,120,000	$43,050	$303,370	$1,063,920
31	Future Road B (Pleasant Valley Rd. to Sachse Rd.)	Unbuilt	2 Lane Undivided	4,100	$3,073,000	$369,000	$538,000	$3,980,000	$5,126,000	$238,800	$1,682,810	$5,901,610
32	Canyon Crest Lane (Clearmeadow Ln. to Cody Ln.)	Unbuilt	2 Lane Undivided	770	$688,900	$83,000	$121,000	$892,900	$6,123,000	$53,570	$377,530	$1,324,000
33	Canyon Crest Lane (Larkmeadow Tr. to McCreary Rd.)	Unbuilt	2 Lane Undivided	1,000	$897,200	$108,000	$158,000	$1,163,200	$6,142,000	$69,790	$491,820	$1,724,810
34	2016 Impact Fee Update			0	$ -	$62,500	$ -	$62,500	$ -	$ -	$ -	$62,500
Total Project					**$ 101,401,800**	**$ 12,240,500**	**$ 17,743,000**	**$ 131,385,300**		**$7,879,350**	**$ 55,525,460**	**$194,790,110**

Note: City of Sachse may re-prioritize these projects based on PM fund availability and other factors.

TABLE 7-6
City of Sachse Water Impact Fees
Water Impact Fee Allocation

No.	Project Name	Qty (length)	Units	Total Project Cost (with Financing)	Percentage of Capacity Utilized 2011	2021	Difference	2021 (Prorated Value)
1	Two 4.6 MGD Pumps at Public Works Pump Station	1	LS	$ 959,540.00	65.30%	85.65%	20.35%	$ 195,266.39
2	Bunker Hill 12" Water Line (N. Segment) (by Developer)	3,200	LF	$ 556,110.00	0.00%	100.00%	100.00%	$ 556,110.00
3	Bunker Hill 12" Water Line (S. Segment) (by Developer)	2,100	LF	$ 373,430.00	0.00%	100.00%	100.00%	$ 373,430.00
4	12" Water Line (by Developer) SH 78 Westward to Clear Meadow Lane, then down Clear Meadow Lane (Wal-Mart Area)	5,000	LF	$ 980,490.00	0.00%	100.00%	100.00%	$ 980,490.00
5	12" Water Line (by Developer) from Bunker Hill to Rosewood Lane	2,100	LF	$ 377,810.00	0.00%	100.00%	100.00%	$ 377,810.00
6	12" Water Line (by Developer) from Hudson Drive to West Creek Lane	2,410	LF	$ 389,100.00	0.00%	100.00%	100.00%	$ 389,100.00
7	12" Water Line (by Developer) from Clear Meadow Lane to Maxwell Creek Road	5,300	LF	$ 795,450.00	0.00%	100.00%	100.00%	$ 795,450.00
8	12" Water Line (by Developer) from Canyon Crest Drive to Maxwell Creek Road at Tracey Lane	930	LF	$ 175,600.00	0.00%	100.00%	100.00%	$ 175,600.00
9	12" Water Line connection (by Developer) from Ranch Road northward 2,500 LF	2,500	LF	$ 413,990.00	0.00%	100.00%	100.00%	$ 413,990.00
10	12" Water Line from Miles Road, south of PGBT looped to Pleasant Valley Drive	5,200	LF	$ 758,000.00	0.00%	100.00%	100.00%	$ 758,000.00
11	12" Water Line from Pump Station along Pleasant Valley Drive to proposed Elevated Water Tank	11,800	LF	$ 1,747,150.00	0.00%	100.00%	100.00%	$ 1,747,150.00
12	Proposed 1.25 MG Elevated Water Tank	1	LS	$ 4,878,470.00	0.00%	23.53%	23.53%	$ 1,147,903.99
13	16" Water Line from the proposed 1.25 MG Elevated Water Tank along Pleasant Valley Drive	1,150	LF	$ 358,810.00	0.00%	23.53%	23.53%	$ 84,427.99
14	18" Water Line along Sachse Road from Pump Station to Merritt Road	4,300	LF	$ 1,609,090.00	0.00%	23.53%	23.53%	$ 378,618.88
15	16" Water Line along Merritt Road from Sachse Road to Pleasant Valley	8,000	LF	$ 2,020,110.00	0.00%	23.53%	23.53%	$ 475,331.88
16	12" Water Line in Blackburn Drive from Abilene Street to Dewitt Street	3,500	LF	$ 680,320.00	0.00%	100.00%	100.00%	$ 680,320.00
17	12" Water Line (by Developer) from Rosewood to Merritt Road	1,900	LF	$ 328,710.00	0.00%	100.00%	100.00%	$ 328,710.00
18	8" Water Line (by Developer) from Hunters Ridge to Merritt Road	1,800	LF	$ 220,600.00	0.00%	100.00%	100.00%	$ 220,600.00
								$ -
19	Impact Fee Update	1	LS	$ 52,250.00	0.00%	100.00%	100.00%	$ 52,250.00
	Total =			**$ 17,675,030.00**				**$ 10,130,559.13**

Note: City of Sachse may re-prioritize these projects based on PM fund availability and other factors

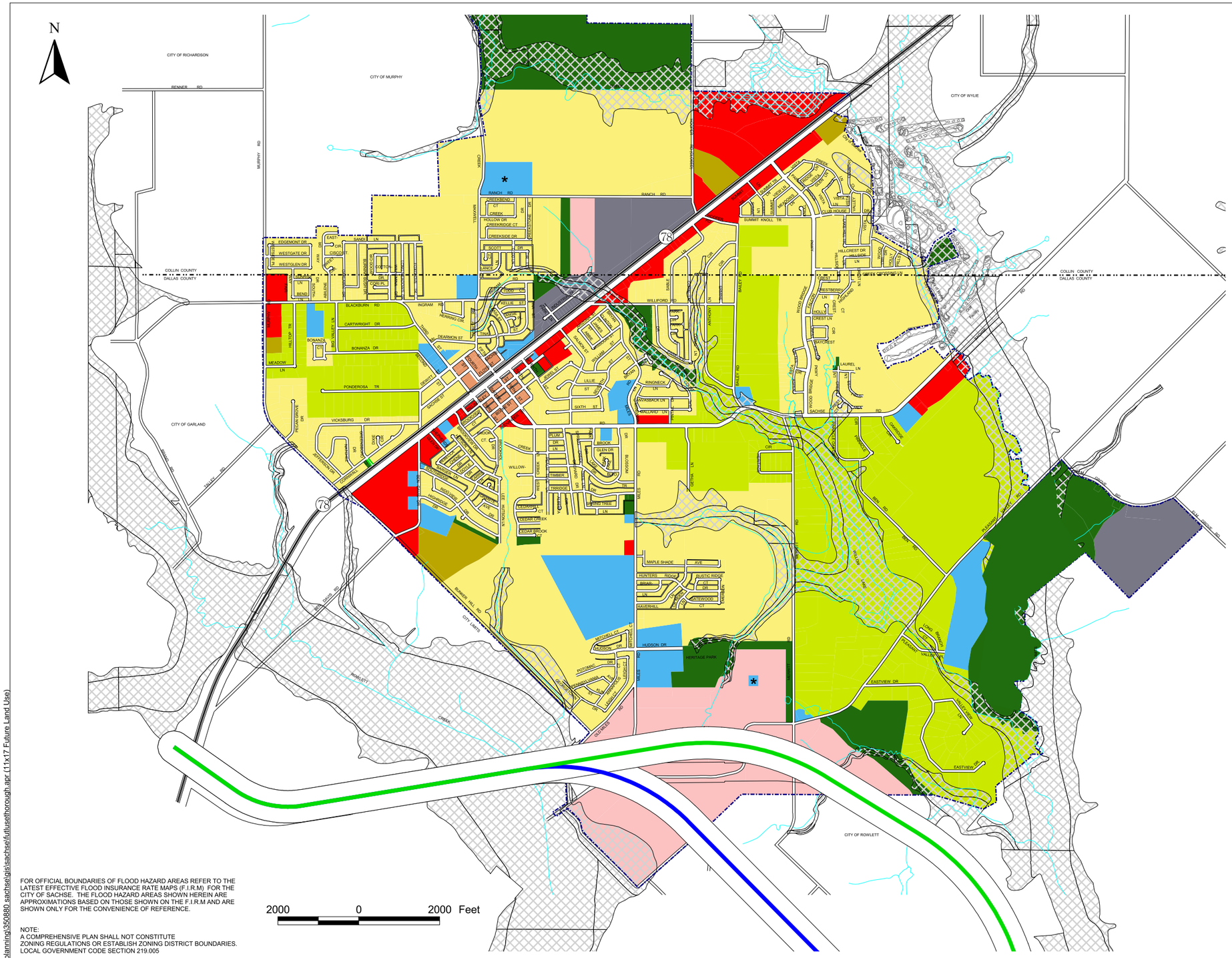
TABLE 7-7
City of Sachse Sanitary Sewer Impact Fees
Sanitary Sewer Impact Fee Allocation

Priority	Project Description	Qty (length)	Units	Qty	Total Project Cost (with Financing)	Percentage of Capacity Utilized			2021 Prorated Value
						2011	2021	Difference	
1	Rehab of existing Merritt Road lift station & existing Sachse Road lift station. (increase pump size to accommodate increased flows for future development)	n/a	UNIT	1	$ 1,637,620.00	72.07%	83.85%	11.79%	$ 193,075.40
2	Line "G" - Future aerial crossing for 24" trunk line and meter station to Garland.	n/a	UNIT	1	$ 806,360.00	0.00%	31.17%	31.17%	$ 251,342.41
3	Future lift station in southeast Sachse.	n/a	UNIT	1	$ 1,672,170.00	58.19%	67.41%	9.23%	$ 154,341.29
4	Line "A" - Future 24" trunk line from Sachse Road to southeast lift station.	10,700	LF	n/a	$ 3,882,310.00	52.95%	53.45%	0.50%	$ 19,411.55
5	Line "G" - Future 24" trunk line from Garland interceptor line northward under George Bush Turnpike and eastward along north side of George Bush Turnpike.	4,000	LF	n/a	$ 1,451,380.00	0.00%	31.17%	31.17%	$ 452,395.15
6	Future 20" force main from future southeast lift station westward along creek and north side of George Bush Turnpike.	10,000	LF	n/a	$ 3,063,950.00	55.23%	57.68%	2.45%	$ 75,066.78
7	Line "B" - Future 10" trunk line from Lift Station north westward along creek to Willow Lake.	4,100	LF	n/a	$ 661,180.00	98.77%	99.15%	0.38%	$ 2,512.48
8	Future 8" branch lines connecting to Line "A" - 24" trunk line. (7 branch lines in southeast Sachse).	9,000	LF	n/a	$ 1,233,550.00	0.00%	100.00%	100.00%	$ 1,233,550.00
9	Future 8" branch lines connecting to Line "B" - 10" trunk line. (5 branch lines in southeast Sachse).	1,700	LF	n/a	$ 232,960.00	0.00%	100.00%	100.00%	$ 232,960.00
10	Line "C" - Future 12" sewer line from north side of George Bush Turnpike eastward along creek to proposed southeast lift station.	4,600	LF	n/a	$ 853,070.00	37.80%	57.19%	19.38%	$ 165,324.97
11	Future 8" sewer line along north side of George Bush Turnpike.	2,600	LF	n/a	$ 356,320.00	0.00%	100.00%	100.00%	$ 356,320.00
12	Future 8" branch line along south side and crossing to the north of George Bush Turnpike.	2,900	LF	n/a	$ 397,550.00	0.00%	100.00%	100.00%	$ 397,550.00
13	Future 8" branch line from 12" trunk line crossing creek north of George Bush Turnpike.	1,400	LF	n/a	$ 191,870.00	0.00%	100.00%	100.00%	$ 191,870.00
14	Future 8" branch line south of George Bush Turnpike from 24" trunk line eastward along church property.	2,700	LF	n/a	$ 370,120.00	0.00%	100.00%	100.00%	$ 370,120.00
15	Line "F" - Future 30" trunk line from existing Garland meter station eastward along Bunker Hill Road and northward along Miles Road.	2,900	LF	n/a	$ 1,309,480.00	72.07%	83.85%	11.79%	$ 154,387.69
16	Line "E" - Future 10" sewer line from 24" trunk line to Garland along southwest city limits line of Sachse.	2,900	LF	n/a	$ 467,670.00	0.00%	31.17%	31.17%	$ 145,749.84
17	Future 8" branch line running on west side of Heritage Park from existing 18" trunk line south of Sachse Elementary School.	800	LF	n/a	$ 109,730.00	0.00%	100.00%	100.00%	$ 109,730.00
18	Line "D" - Future 10" trunk line from existing 12" trunk line on east side of Heritage Park going southward under George Bush Turnpike.	3,700	LF	n/a	$ 596,680.00	0.00%	31.17%	31.17%	$ 185,985.16
19	2 future 8" trunk lines running in a east-west direction connecting to a 10" trunk line on the south side of George Bush Turnpike.	2,000	LF	n/a	$ 274,170.00	0.00%	100.00%	100.00%	$ 274,170.00
20	Future 8" sewer line from Hunter's Ridge lift station eastward to 12" sewer line.	1,000	LF	n/a	$ 137,010.00	0.00%	100.00%	100.00%	$ 137,010.00
21	Line "H" - Future 12" trunk line from Garland interceptor line northward to Murphy Road (Northwest Sachse).	400	LF	n/a	$ 74,140.00	96.00%	100.00%	4.00%	$ 2,965.60
									$ -
22	2016 Impact Fee Update	1	LS	n/a	$ 118,250.00	0.00%	100.00%	100.00%	$ 118,250.00
Note: City of Sachse may re-prioritize these projects based on PM fund availability and other factors					**$ 19,897,540.00**				**$ 5,224,088.32**

TABLE 7-8
City of Sachse Roadway Impact Fees
Vehicle-Mile Analysis

	Residental				Non-Residental			Parks			Total	Pecentage of Ulitimate Demand
Year	Population	Residental Units	Transporation Demand Factor	Vehicle - Miles	Square-Footage	Transporation Demand Factor	Vehicle - Miles	Acres	Transportation Demand Factor	Vehicle - Miles	Vehicle - Miles	
2011	19,100	11,138	4.70	52,310	302,410	16.75	5,067	75.30	60.50	4,556	61,933	66.28%
2021	25,051	12,233	4.70	57,453	470,454	16.75	7,882	75.30	60.50	4,556	69,891	74.80%
2030	25,298	14,885	4.70	69,908	1,132,645	16.75	18,976	75.30	60.50	4,556	93,440	100.00%

EXHIBIT 3-1



FOR OFFICIAL BOUNDARIES OF FLOOD HAZARD AREAS REFER TO THE LATEST EFFECTIVE FLOOD INSURANCE RATE MAPS (F.I.R.M) FOR THE CITY OF SACHSE. THE FLOOD HAZARD AREAS SHOWN HEREIN ARE APPROXIMATIONS BASED ON THOSE SHOWN ON THE F.I.R.M AND ARE SHOWN ONLY FOR THE CONVENIENCE OF REFERENCE.

NOTE:
A COMPREHENSIVE PLAN SHALL NOT CONSTITUTE ZONING REGULATIONS OR ESTABLISH ZONING DISTRICT BOUNDARIES. LOCAL GOVERNMENT CODE SECTION 219.005

h:\planning\350880 sachse\gis\sachse\futuresthorough.apr (11x17 Future Land Use)

25 JUN 02 9:04

Sachse
TEXAS

Comprehensive Plan
2001

Figure 3-3
Future Land Use Plan

Legend

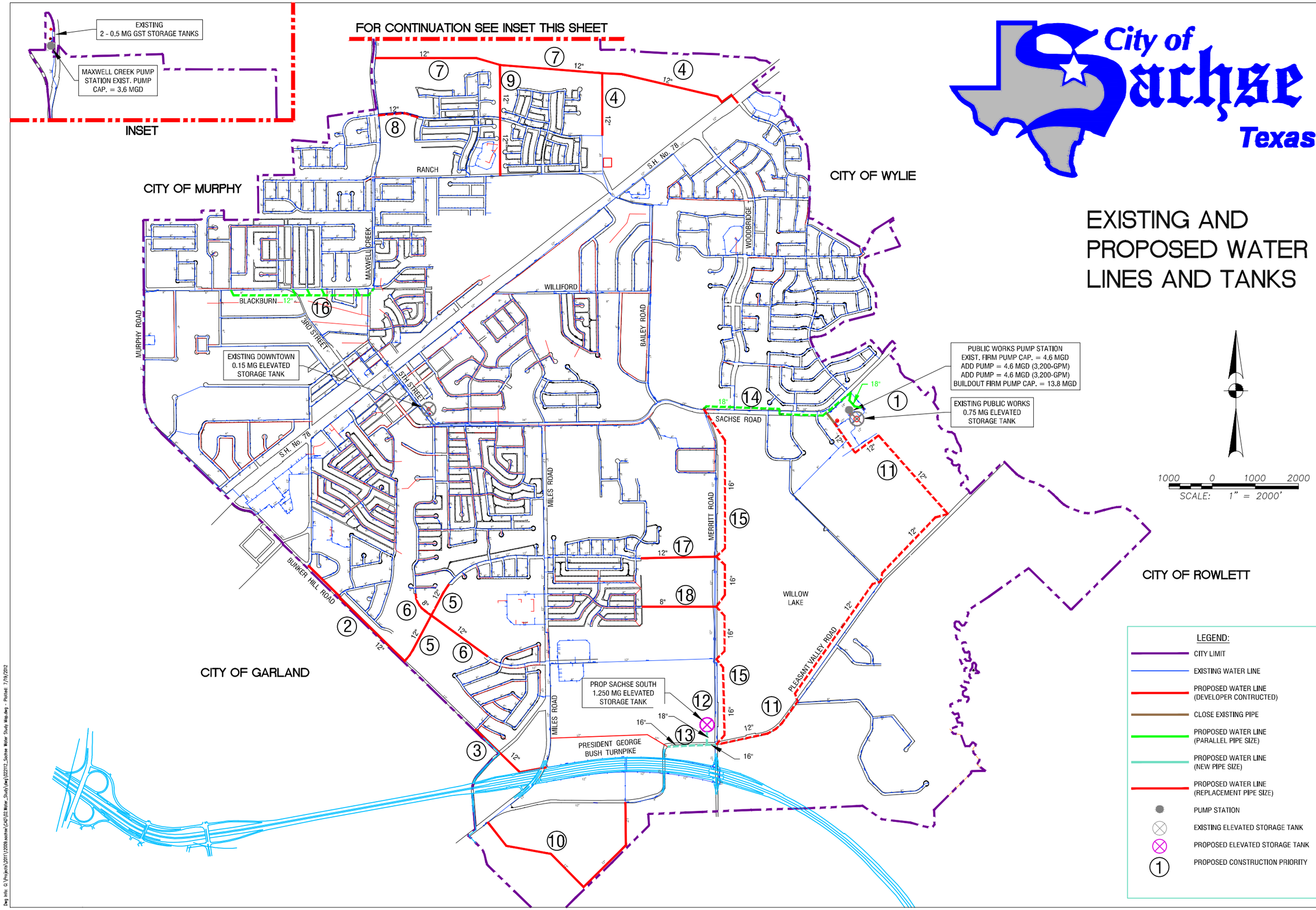
- Sachse Corporate Limits
- County Line
- New Tollway Alignment 1
- New Tollway Alignment 2
- 100 Year Flood Plain

Future Land Use

- Rural Residential
- Low Density Residential
- High Density Residential
- Business Park
- Commercial/Retail
- Old Town-Mixed Use
- Industrial
- Public/Semi-Public/Institutional
- Park and Open Spaces
- Right of Way
- * Not Parcel Or Size Specific

HUNTER ASSOCIATES TEXAS, LTD.
ENGINEERS/PLANNERS/SURVEYORS
214-369-9171 512-454-8716

ENGINEERS PLANNERS ECONOMISTS
Wilbur Smith Associates



City of Sachse Texas

EXISTING AND PROPOSED WATER LINES AND TANKS

REVISIONS

NO.	DATE	COMMENT

CobbFendley
Texas Registration No. 274
6801 Gaylord Parkway, Suite 302
Frisco, Texas 75034
972.335.3214 | fax 972.335.3202 | www.cobfen.com

DATE: JUN 2012	SCALE: 1" = 2000'
DESIGN BY:	DRAWN BY:
SHEET NO. 01 of 22	JOB NUMBER: 1012-009-01
SHEET ID: 022112_Sachse Water Study Map.dwg	

-1

Dwg Info: G:\Projects\2011\12009.sachse\CAD\02 Water_Study\dwg\022112_Sachse Water Study Map.dwg - Plotted: 7/19/2012

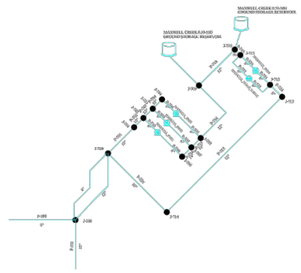
EXHIBIT 4–2

The city of Sachse Texas

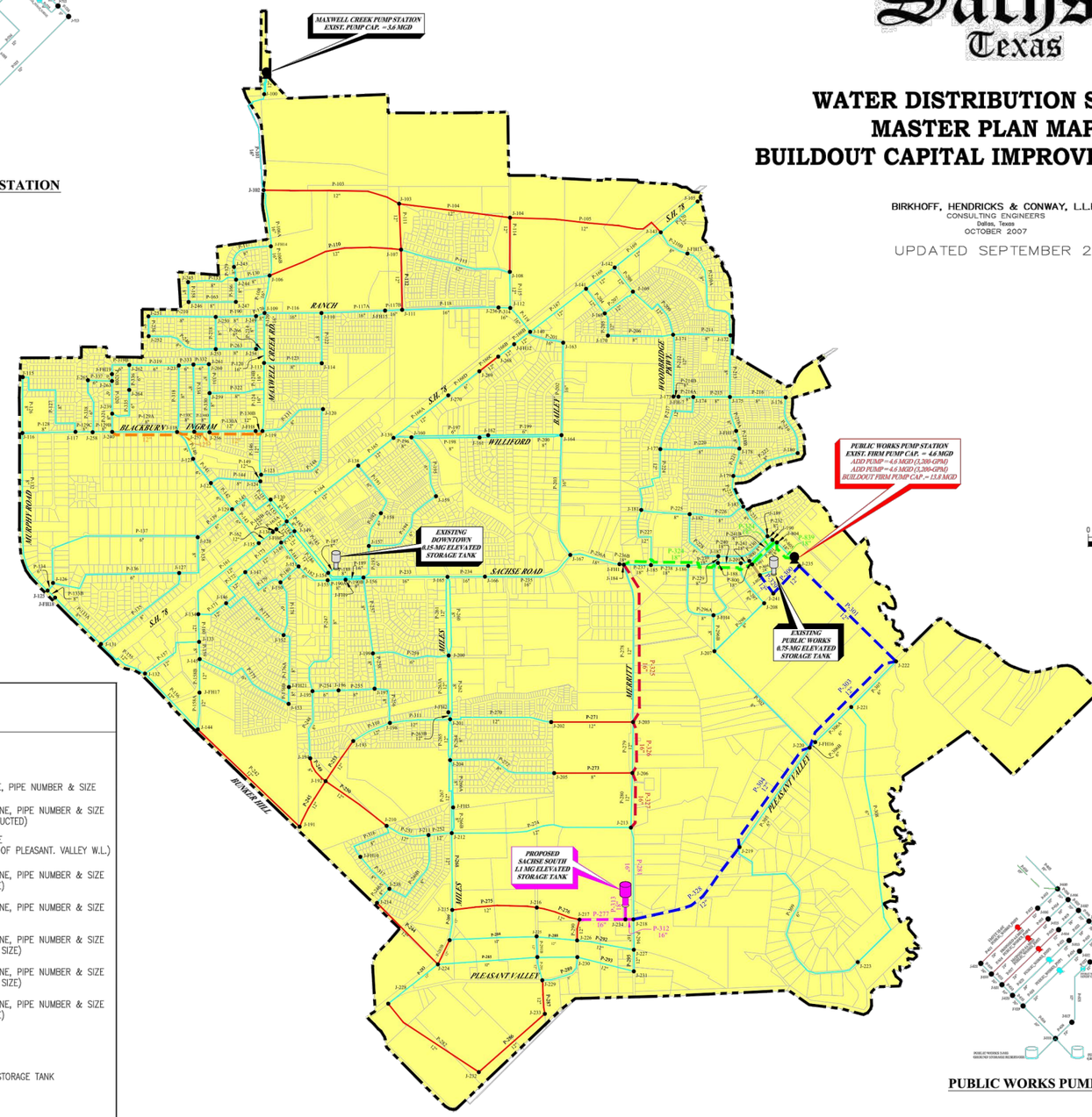
WATER DISTRIBUTION SYSTEM MASTER PLAN MAP & BUILDOUT CAPITAL IMPROVEMENT PLAN

BIRKHOFF, HENDRICKS & CONWAY, L.L.P.
CONSULTING ENGINEERS
Dallas, Texas
OCTOBER 2007

UPDATED SEPTEMBER 2011



MAXWELL CREEK PUMP STATION



0 1000 2000 3000
HORIZONTAL SCALE IN FEET

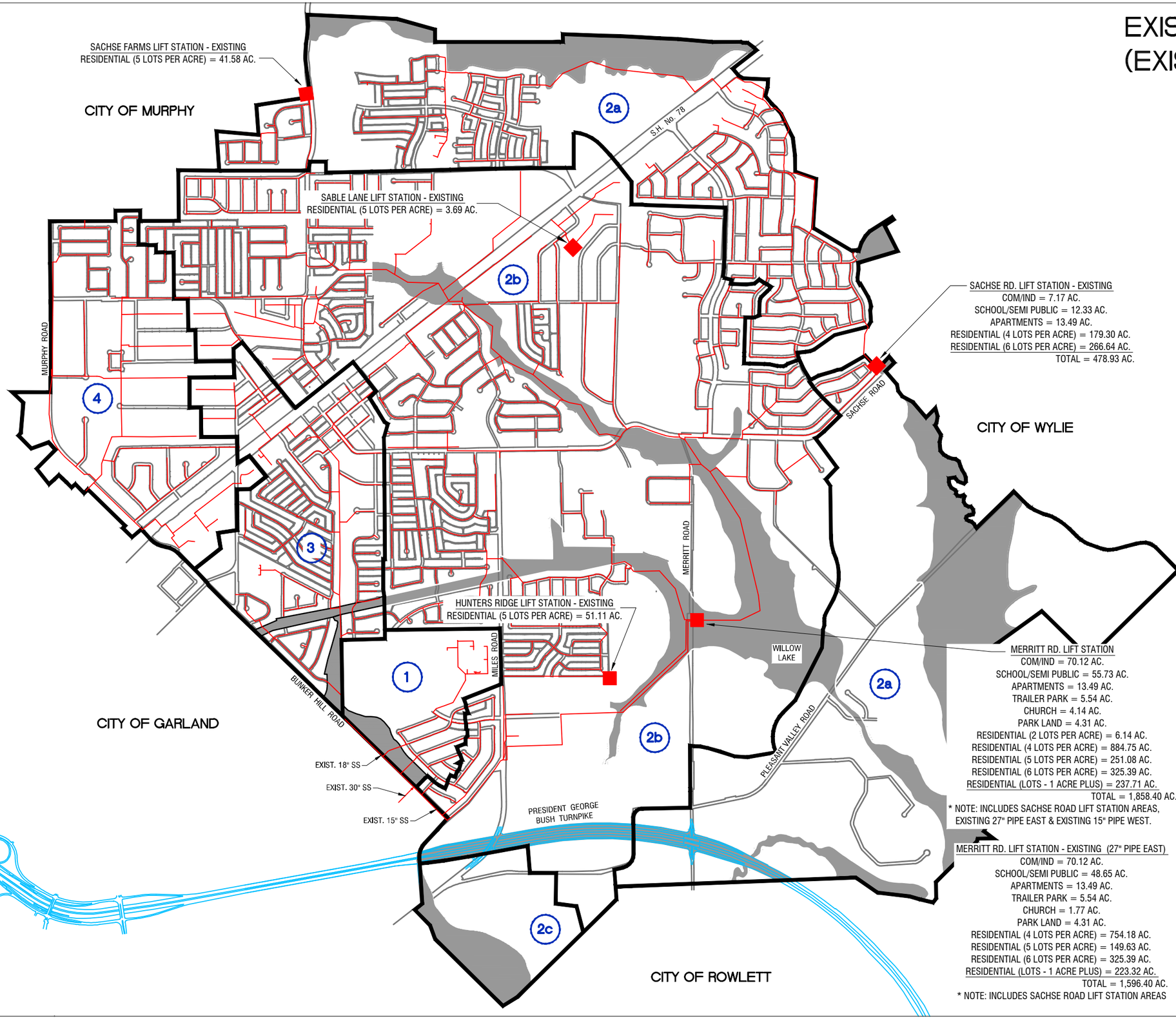
LEGEND

	CITY LIMIT
	PLANNING AREA
P-100 8"	EXISTING WATER LINE, PIPE NUMBER & SIZE
P-103 12"	PROPOSED WATER LINE, PIPE NUMBER & SIZE (DEVELOPER CONSTRUCTED)
P-802 18"	CLOSE EXISTING PIPE (FOLLOWING CONST. OF PLEASANT. VALLEY W.L.)
P-324 18"	PROPOSED WATER LINE, PIPE NUMBER & SIZE (PARALLEL PIPE SIZE)
P-313 18"	PROPOSED WATER LINE, PIPE NUMBER & SIZE (NEW PIPE SIZE)
P-326 16"	PROPOSED WATER LINE, PIPE NUMBER & SIZE (REPLACEMENT PIPE SIZE)
P-304 12"	PROPOSED WATER LINE, PIPE NUMBER & SIZE (REPLACEMENT PIPE SIZE)
P-315 18"	PROPOSED WATER LINE, PIPE NUMBER & SIZE (PARALLEL PIPE SIZE)
	PUMP STATION
	EXISTING ELEVATED STORAGE TANK
	PROPOSED ELEVATED STORAGE TANK

PUBLIC WORKS PUMP STATION

REVISED: 9/27/11 – MHickey
H:\Projects\H2ONET\Sachse\CIP MAP\2011 CIP MAP.dwg
PLOT STYLE: ----
PLOTTED BY: MHickey ON 9/27/2011
PLOT SCALE: 1:1000

EXISTING LIFT STATIONS (EXISTING AREAS)



NO.	DATE	COMMENT

REVISIONS

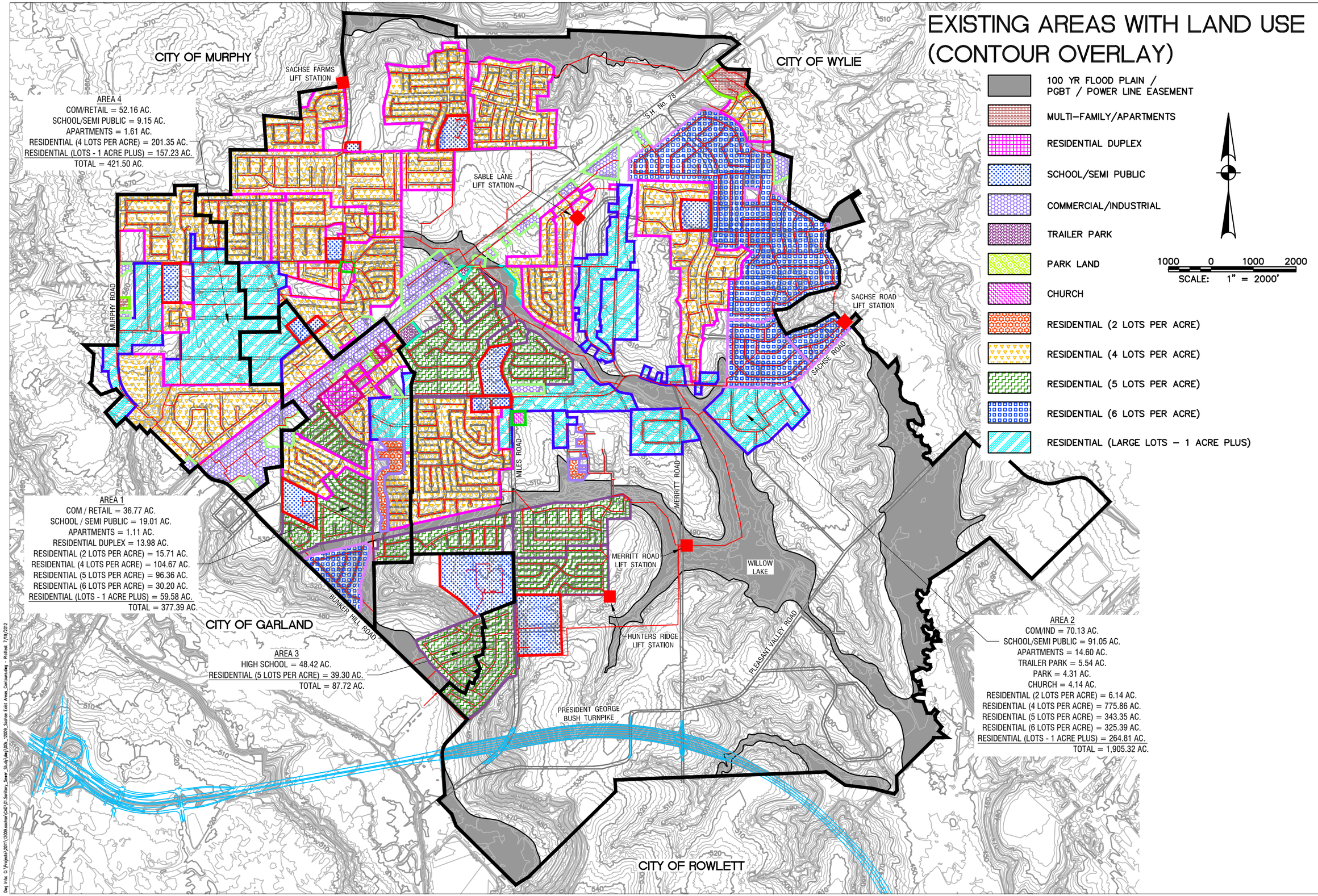
CobbFendley
Texas Registration No. 274
6801 Gaylord Parkway, Suite 302
Frisco, Texas 75034
972.335.3214 | fax 972.335.3202 | www.cobbfendley.com

DATE: JUN 2012
SCALE: 1"=2000'
DESIGN BY: TJD
DRAWN BY: TJD
SHEET NO. 02 of 22
JOB NUMBER: 10-12-008-01
SHEET ID: 09a_12009_Sachse Exist Lift Station Map & Exist Areas.dwg

-1

Dwg Info: G:\Projects\2011\12008.sachse\CAD\01.Sanitary_Sewer_Study\dwg\09a_12009_Sachse Exist Lift Station Map & Exist Areas.dwg - Plotted: 7/19/2012

EXISTING AREAS WITH LAND USE (CONTOUR OVERLAY)



NO.	DATE	COMMENT

REVISIONS

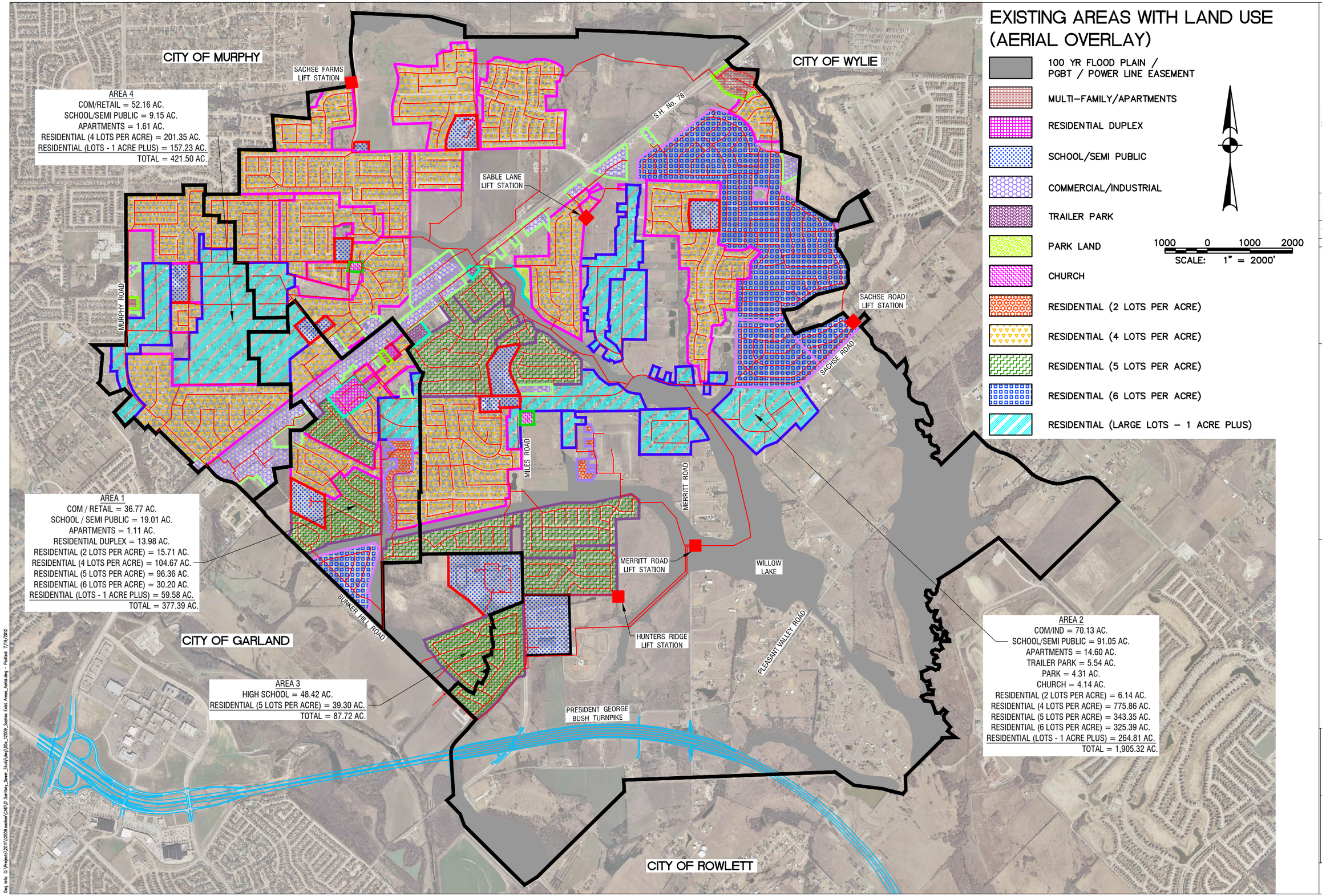
CobbFendley
Texas Registration No. 274
6801 Gaylord Parkway, Suite 302
Frisco, Texas 75034
972.335.3214 | fax 972.335.3202 | www.cobbfendley.com

DATE: JUN 2012
DESIGN BY:
SHEET NO. 03 of 22
SHEET ID: 009_12000_Sachse Exist Areas_Contours.dwg
SCALE: 1" = 2000'
DRAWN BY:
JOB NUMBER: 1012-009-01

-1

Dwg Info: G:\Projects\2011\2009 sachse\CAD\01_Sanitary_Sewer_Study\dwg\009_12000_Sachse Exist Areas_Contours.dwg - Plotted: 7/19/2012

EXISTING AREAS WITH LAND USE (AERIAL OVERLAY)



NO.	DATE	COMMENT

REVISIONS

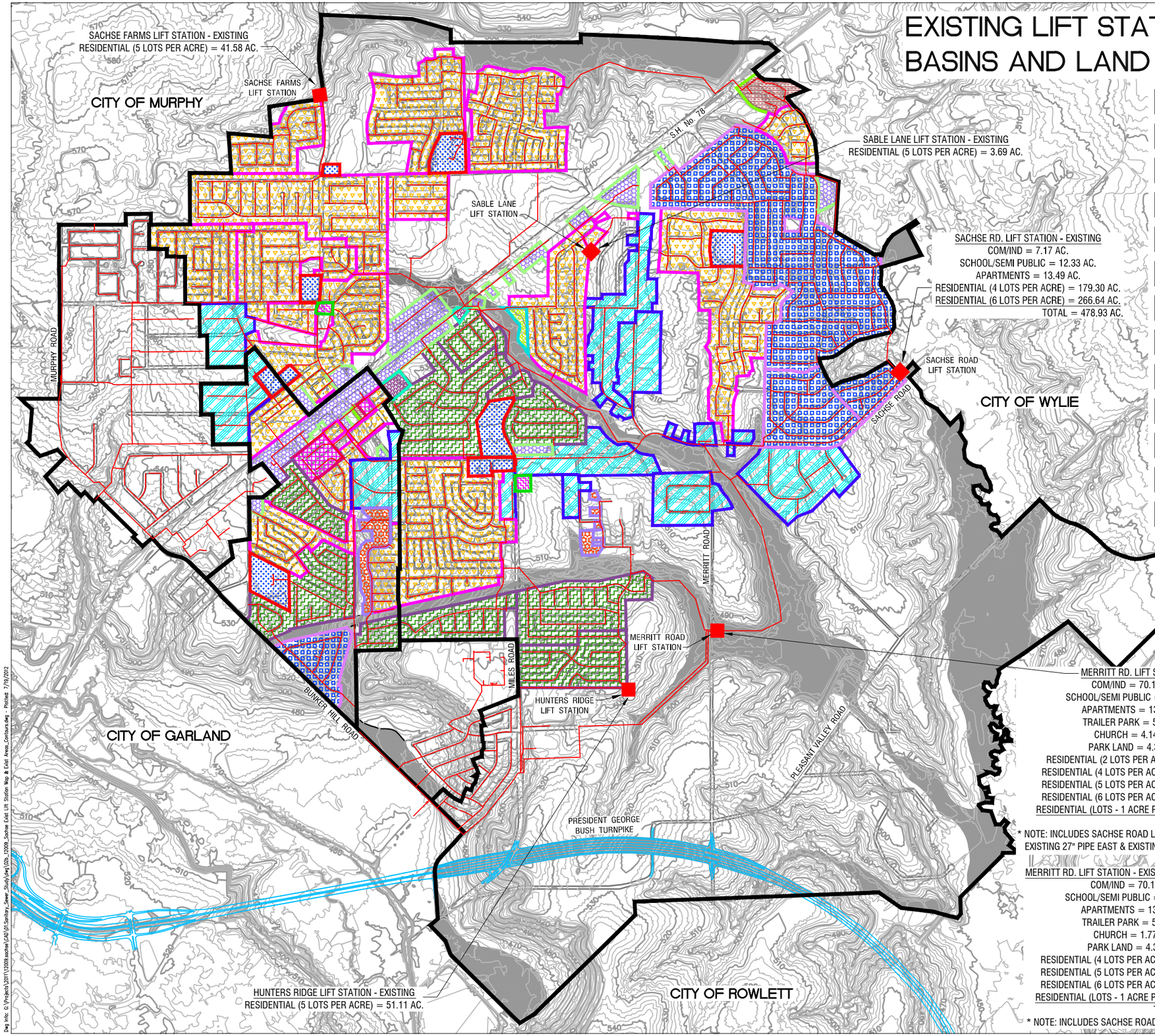
CobbFendley
Texas Registration No. 274
6801 Gaylord Parkway, Suite 302
Frisco, Texas 75034
972.335.3214 | fax 972.335.3202 | www.cobbfendley.com

DATE: JUN 2012	SCALE: 1"=2000'
DESIGN BY:	DRAWN BY:
SHEET NO. 0 of 22	JOB NUMBER: 1012-009-01
SHEET ID: 00a_12009_Sachse Exist Areas_Aerial.dwg	

-1

Dwg Info: G:\Projects\2011\12009 sachse\CAD\01-Sanitary_Sewer_Study\dwg\00a_12009_Sachse Exist Areas_Aerial.dwg - Plotted: 7/19/2012

EXISTING LIFT STATIONS WITH DRAINAGE BASINS AND LAND USE (CONTOUR OVERLAY)



100 YR FLOOD PLAIN / PGBT / POWER LINE EASEMENT
MULTI-FAMILY/APARTMENTS
RESIDENTIAL DUPLEX
SCHOOL/SEMI PUBLIC
COMMERCIAL/INDUSTRIAL
TRAILER PARK
PARK LAND
CHURCH
RESIDENTIAL (2 LOTS PER ACRE)
RESIDENTIAL (4 LOTS PER ACRE)
RESIDENTIAL (5 LOTS PER ACRE)
RESIDENTIAL (6 LOTS PER ACRE)
RESIDENTIAL (LARGE LOTS – 1 ACRE PLUS)

1000 0 1000 2000
SCALE: 1" = 2000'

MERRITT RD. LIFT STATION
COM/IND = 70.12 AC.
SCHOOL/SEMI PUBLIC = 55.73 AC.
APARTMENTS = 13.49 AC.
TRAILER PARK = 5.54 AC.
CHURCH = 4.14 AC.
PARK LAND = 4.31 AC.
RESIDENTIAL (2 LOTS PER ACRE) = 6.14 AC.
RESIDENTIAL (4 LOTS PER ACRE) = 884.75 AC.
RESIDENTIAL (5 LOTS PER ACRE) = 251.08 AC.
RESIDENTIAL (6 LOTS PER ACRE) = 325.39 AC.
RESIDENTIAL (LOTS - 1 ACRE PLUS) = 237.71 AC.
TOTAL = 1,858.40 AC.
* NOTE: INCLUDES SACHSE ROAD LIFT STATION AREAS, EXISTING 27" PIPE EAST & EXISTING 15" PIPE WEST.

MERRITT RD. LIFT STATION
COM/IND = 62.95 AC.
SCHOOL/SEMI PUBLIC = 43.40 AC.
TRAILER PARK = 5.54 AC.
CHURCH = 4.14 AC.
PARK LAND = 4.31 AC.
RESIDENTIAL (2 LOTS PER ACRE) = 6.14 AC.
RESIDENTIAL (4 LOTS PER ACRE) = 705.45 AC.
RESIDENTIAL (5 LOTS PER ACRE) = 251.08 AC.
RESIDENTIAL (6 LOTS PER ACRE) = 58.75 AC.
RESIDENTIAL (LOTS - 1 ACRE PLUS) = 237.71 AC.
TOTAL = 1,379.47 AC.
* NOTE: DOES NOT INCLUDE SACHSE ROAD LIFT STATION AREAS

MERRITT RD. LIFT STATION - EXISTING (27" PIPE EAST)
COM/IND = 70.12 AC.
SCHOOL/SEMI PUBLIC = 48.65 AC.
APARTMENTS = 13.49 AC.
TRAILER PARK = 5.54 AC.
CHURCH = 1.77 AC.
PARK LAND = 4.31 AC.
RESIDENTIAL (4 LOTS PER ACRE) = 754.18 AC.
RESIDENTIAL (5 LOTS PER ACRE) = 149.63 AC.
RESIDENTIAL (6 LOTS PER ACRE) = 325.39 AC.
RESIDENTIAL (LOTS - 1 ACRE PLUS) = 223.32 AC.
TOTAL = 1,596.40 AC.
* NOTE: INCLUDES SACHSE ROAD LIFT STATION AREAS

MERRITT RD. LIFT STATION - EXISTING (15" PIPE WEST)
SCHOOL/SEMI PUBLIC = 7.08 AC.
CHURCH = 2.37 AC.
RESIDENTIAL (2 LOTS PER ACRE) = 6.14 AC.
RESIDENTIAL (4 LOTS PER ACRE) = 130.57 AC.
RESIDENTIAL (5 LOTS PER ACRE) = 101.45 AC.
RESIDENTIAL (LOTS - 1 ACRE PLUS) = 14.39 AC.
TOTAL = 262.00 AC.

NO.	DATE	REVISIONS	COMMENT

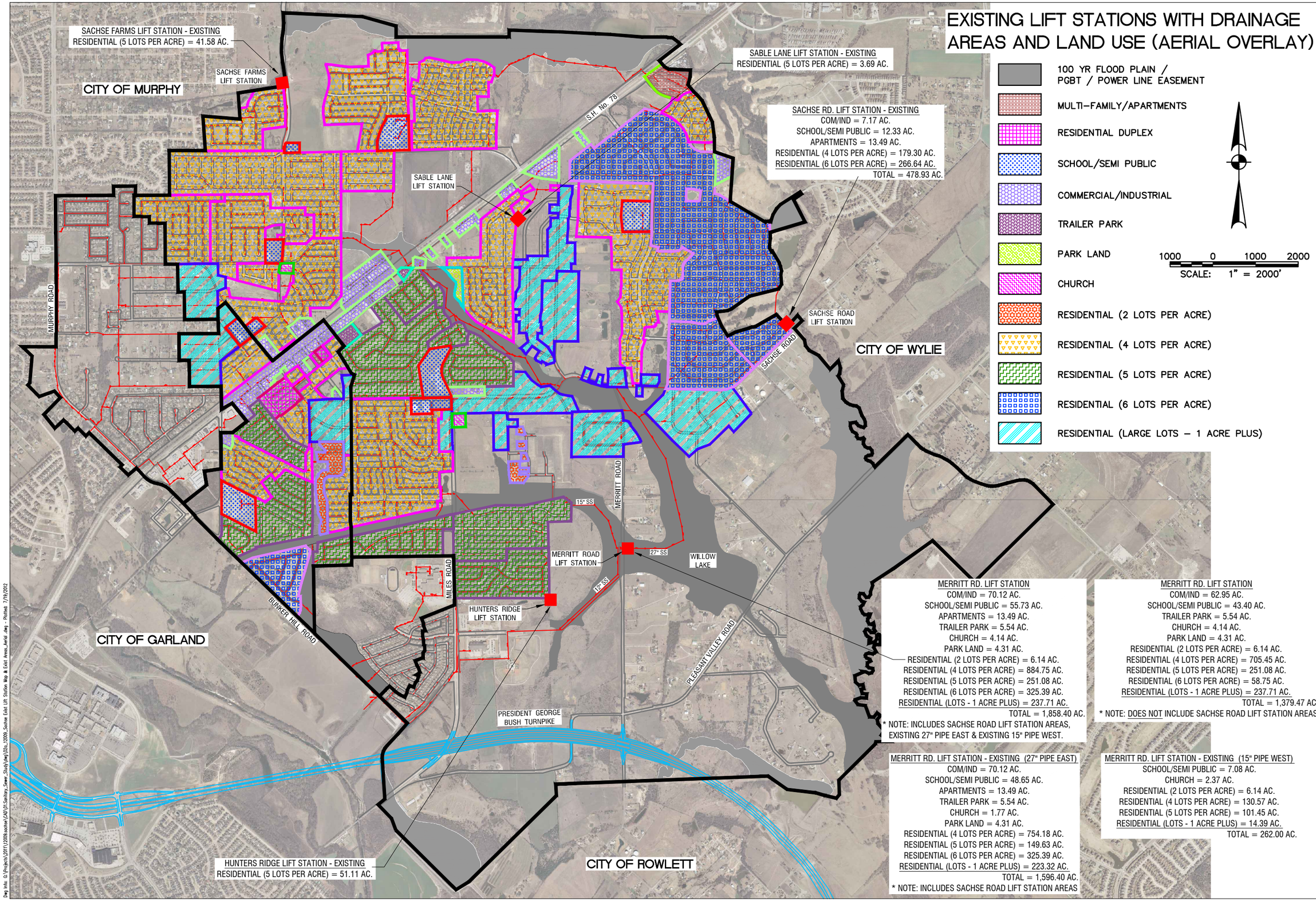
CobbFendley
Texas Registration No. 274
6801 Gaylord Parkway, Suite 302
Frisco, Texas 75034
972.335.3214 | fax 972.335.3202 | www.cobbfendley.com

DATE: JUN.2012
SCALE: 1"=2000'
DESIGN BY:
DRAWN BY:
SHEET NO. 01 of 22
JOB NUMBER: 1012-009-01
SHEET ID: 02b_12009_Sachse Exist Lift Station Map & Exist Areas_Contours.dwg

-1

Dwg Info: G:\Projects\2011\12008.sachse\CAD\01.Sanitary_Sewer_Study\dwg\02b_12009_Sachse Exist Lift Station Map & Exist Areas_Contours.dwg - Plotted: 7/19/2012

EXISTING LIFT STATIONS WITH DRAINAGE AREAS AND LAND USE (AERIAL OVERLAY)



NO.	DATE	REVISIONS	COMMENT

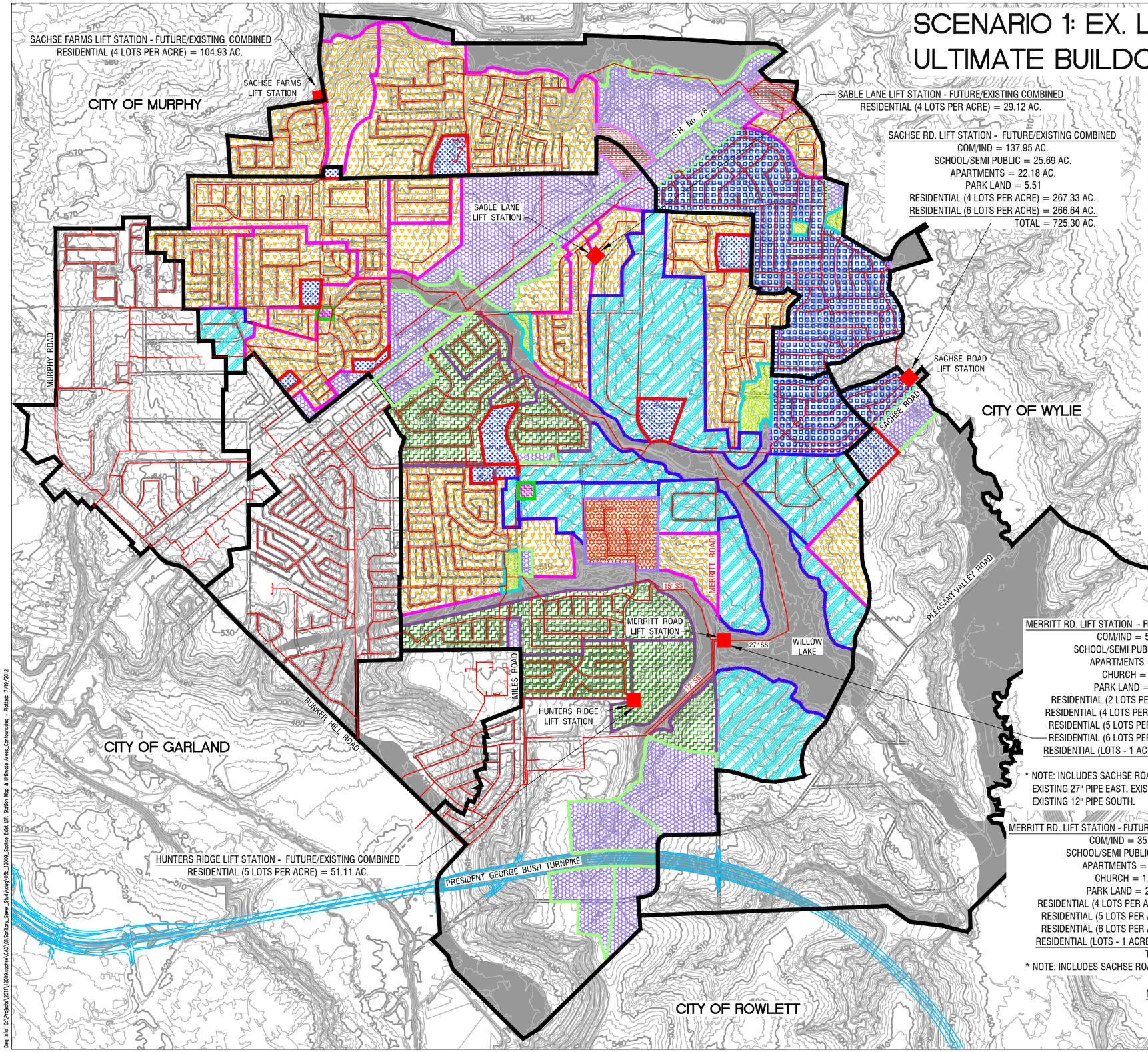
CobbFendley
Texas Registration No. 274
6801 Gaylord Parkway, Suite 302
Frisco, Texas 75034
972.335.3214 | fax 972.335.3202 | www.cobbfendley.com

DATE: JUN 2012
SCALE: 1"=2000'
DESIGN BY:
DRAWN BY:
SHEET NO. 0 of 22
JOB NUMBER: 1012-009-01
SHEET ID: 02a_12009_Sachse Exist Lift Station Map & Exist Areas_Aerial .dwg

-1

Dwg Info: G:\Projects\2011\2009.sachse\CAD\01.Sanitary_Sewer_Study\dwg\02a_12009_Sachse Exist Lift Station Map & Exist Areas_Aerial .dwg - Plotted: 7/19/2012

SCENARIO 1: EX. LIFT STATIONS WITH EX. AND ULTIMATE BUILDOUT (CONTOUR OVERLAY)



- 100 YR FLOOD PLAIN / PGBT / POWER LINE EASEMENT
- MULTI-FAMILY/APARTMENTS
- RESIDENTIAL DUPLEX
- SCHOOL/SEMI PUBLIC
- COMMERCIAL/INDUSTRIAL
- TRAILER PARK
- PARK LAND
- CHURCH
- RESIDENTIAL (2 LOTS PER ACRE)
- RESIDENTIAL (4 LOTS PER ACRE)
- RESIDENTIAL (5 LOTS PER ACRE)
- RESIDENTIAL (6 LOTS PER ACRE)
- RESIDENTIAL (LARGE LOTS – 1 ACRE PLUS)

1000 0 1000 2000
SCALE: 1" = 2000'

MERRITT RD. LIFT STATION - FUTURE/EXISTING COMBINED
COM/IND = 518.61 AC.
SCHOOL/SEMI PUBLIC = 87.49 AC.
APARTMENTS = 30.87 AC.
CHURCH = 4.14 AC.
PARK LAND = 31.26 AC.
RESIDENTIAL (2 LOTS PER ACRE) = 46.05 AC.
RESIDENTIAL (4 LOTS PER ACRE) = 1,211.53 AC.
RESIDENTIAL (5 LOTS PER ACRE) = 339.15 AC.
RESIDENTIAL (6 LOTS PER ACRE) = 325.39 AC.
RESIDENTIAL (LOTS - 1 ACRE PLUS) = 534.54 AC.
TOTAL = 3,129.03 AC.
* NOTE: INCLUDES SACHSE ROAD LIFT STATION AREAS, EXISTING 27" PIPE EAST, EXISTING 15" PIPE WEST & EXISTING 12" PIPE SOUTH.

MERRITT RD. LIFT STATION - FUTURE/EXISTING COMBINED
COM/IND = 380.67 AC.
SCHOOL/SEMI PUBLIC = 61.80 AC.
APARTMENTS = 8.69 AC.
CHURCH = 4.14 AC.
PARK LAND = 25.74 AC.
RESIDENTIAL (2 LOTS PER ACRE) = 46.05 AC.
RESIDENTIAL (4 LOTS PER ACRE) = 944.20 AC.
RESIDENTIAL (5 LOTS PER ACRE) = 339.15 AC.
RESIDENTIAL (6 LOTS PER ACRE) = 58.75 AC.
RESIDENTIAL (LOTS - 1 ACRE PLUS) = 534.54 AC.
TOTAL = 2,403.73 AC.
* NOTE: DOES NOT INCLUDE SACHSE ROAD LIFT STATION AREAS

MERRITT RD. LIFT STATION - FUTURE/EXISTING (27" PIPE EAST)
COM/IND = 357.45 AC.
SCHOOL/SEMI PUBLIC = 80.41 AC.
APARTMENTS = 30.87 AC.
CHURCH = 1.77 AC.
PARK LAND = 25.31 AC.
RESIDENTIAL (4 LOTS PER ACRE) = 1,029.26 AC.
RESIDENTIAL (5 LOTS PER ACRE) = 150.32 AC.
RESIDENTIAL (6 LOTS PER ACRE) = 325.39 AC.
RESIDENTIAL (LOTS - 1 ACRE PLUS) = 493.20 AC.
TOTAL = 2,493.98 AC.
* NOTE: INCLUDES SACHSE ROAD LIFT STATION AREAS

MERRITT RD. LIFT STATION - FUTURE/EXISTING (15" PIPE WEST)
COM/IND = 6.59 AC.
SCHOOL/SEMI PUBLIC = 7.08 AC.
CHURCH = 2.37 AC.
PARK LAND = 5.94 AC.
RESIDENTIAL (2 LOTS PER ACRE) = 46.05 AC.
RESIDENTIAL (4 LOTS PER ACRE) = 182.27 AC.
RESIDENTIAL (5 LOTS PER ACRE) = 121.41 AC.
RESIDENTIAL (LOTS - 1 ACRE PLUS) = 41.35 AC.
TOTAL = 413.06 AC.

MERRITT RD. LIFT STATION - FUTURE/EXISTING (12" PIPE SOUTH)
COM/IND = 154.58 AC.
RESIDENTIAL (5 LOTS PER ACRE) = 67.41 AC.
TOTAL = 221.99 AC.

NO.	DATE	COMMENT

REVISIONS

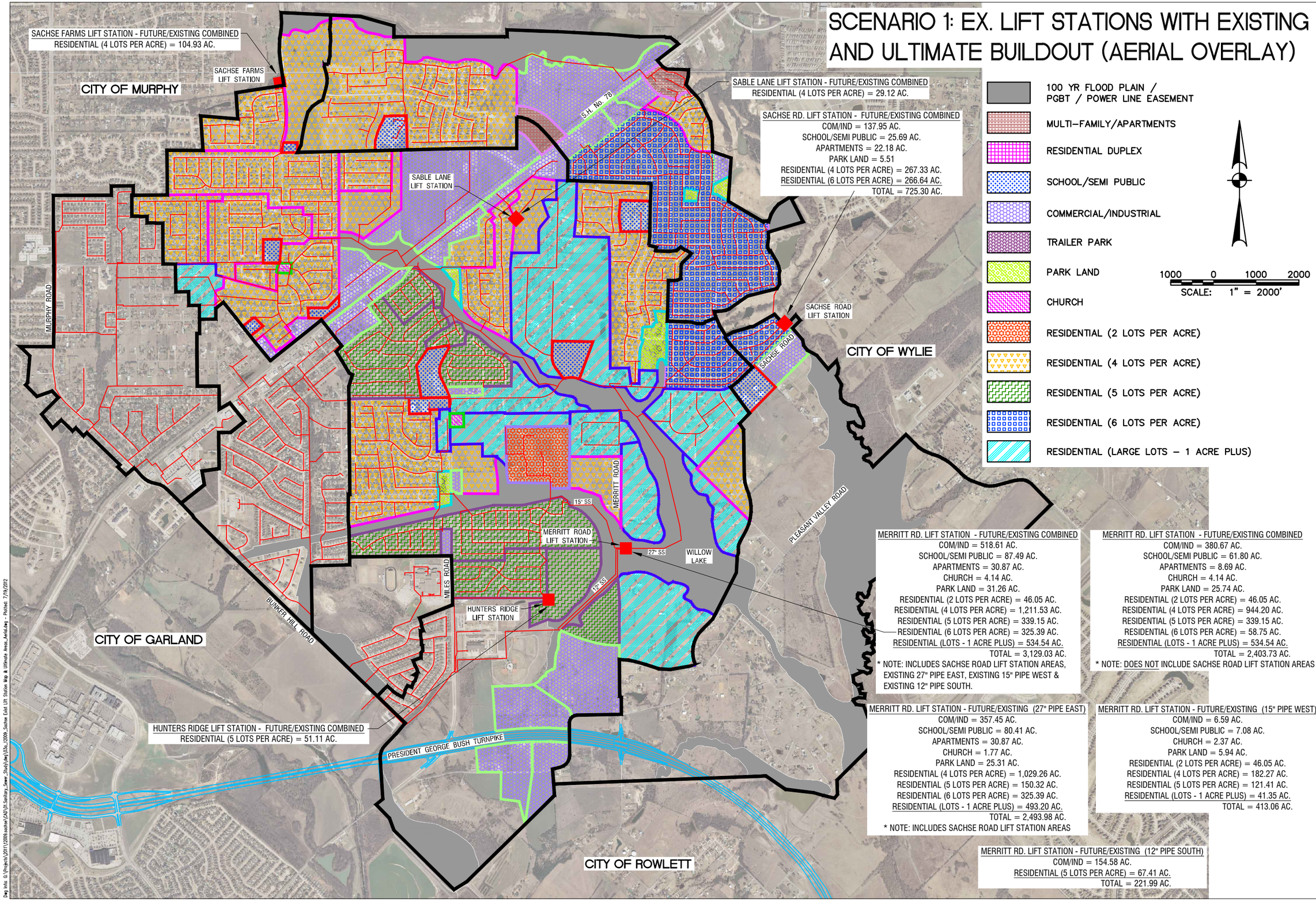
CobbFendley
Texas Registration No. 274
6801 Gaylord Parkway, Suite 302
Frisco, Texas 75034
972.335.3214 | fax 972.335.3202 | www.cobbfendley.com

DATE: JULY 2012
DESIGN BY:
SHEET NO. 6 of 22
SCALE: 1" = 2000'
DRAWN BY:
JOB NUMBER: 1012-008-01
SHEET ID: 08a_12000_Sachse Exist Lift Station Map & Ultimate Areas_Contours.dwg

-2

Dwg Info: G:\Projects\2011\12009.sachse\CAD\01.Sanitary_Sewer_Study\dwg\08a_12009_Sachse Exist Lift Station Map & Ultimate Areas_Contours.dwg - Plotted: 7/19/2012

SCENARIO 1: EX. LIFT STATIONS WITH EXISTING AND ULTIMATE BUILDOUT (AERIAL OVERLAY)



NO.	DATE	REVISIONS	COMMENT

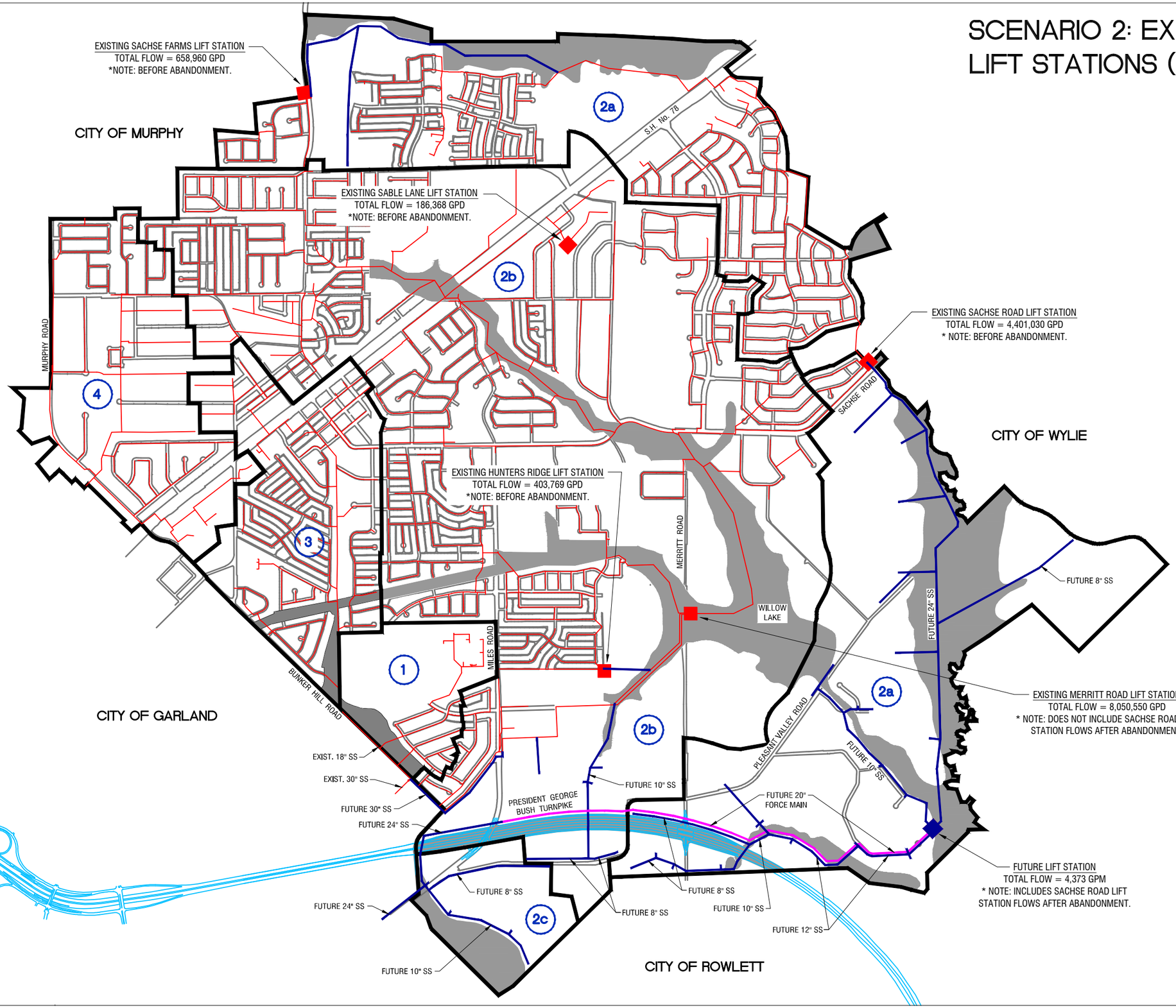
CobbFendley
Texas Registration No. 274
6801 Gaylord Parkway, Suite 302
Frisco, Texas 75034
972.335.3214 | fax 972.335.3202 | www.cobbfendley.com

SCALE: 1"=2000'
DATE: JUN 2012
DRAWN BY:
DESIGN BY:
JOB NUMBER: 1012-009-01
SHEET NO. 0 of 22
SHEET ID: 03a_12009_Sachse East Lift Station Map & Ultimate Areas_Aerial.dwg

-2

Dwg Info: G:\Projects\2011\12009.sachse\CAD\01.Sanitary_Sewer_Study\dwg\03a_12009_Sachse East Lift Station Map & Ultimate Areas_Aerial.dwg - PlotNet: 7/19/2012

SCENARIO 2: EXISTING AND FUTURE LIFT STATIONS (ULTIMATE FLOWS)



1000 0 1000 2000
SCALE: 1" = 2000'

2a = BASIN DESIGNATION

NO.	DATE	COMMENT
1	4/20/12	REMOVED EXIST. AREA DATA & REPLACED W/ PROP. FLOW DATA.

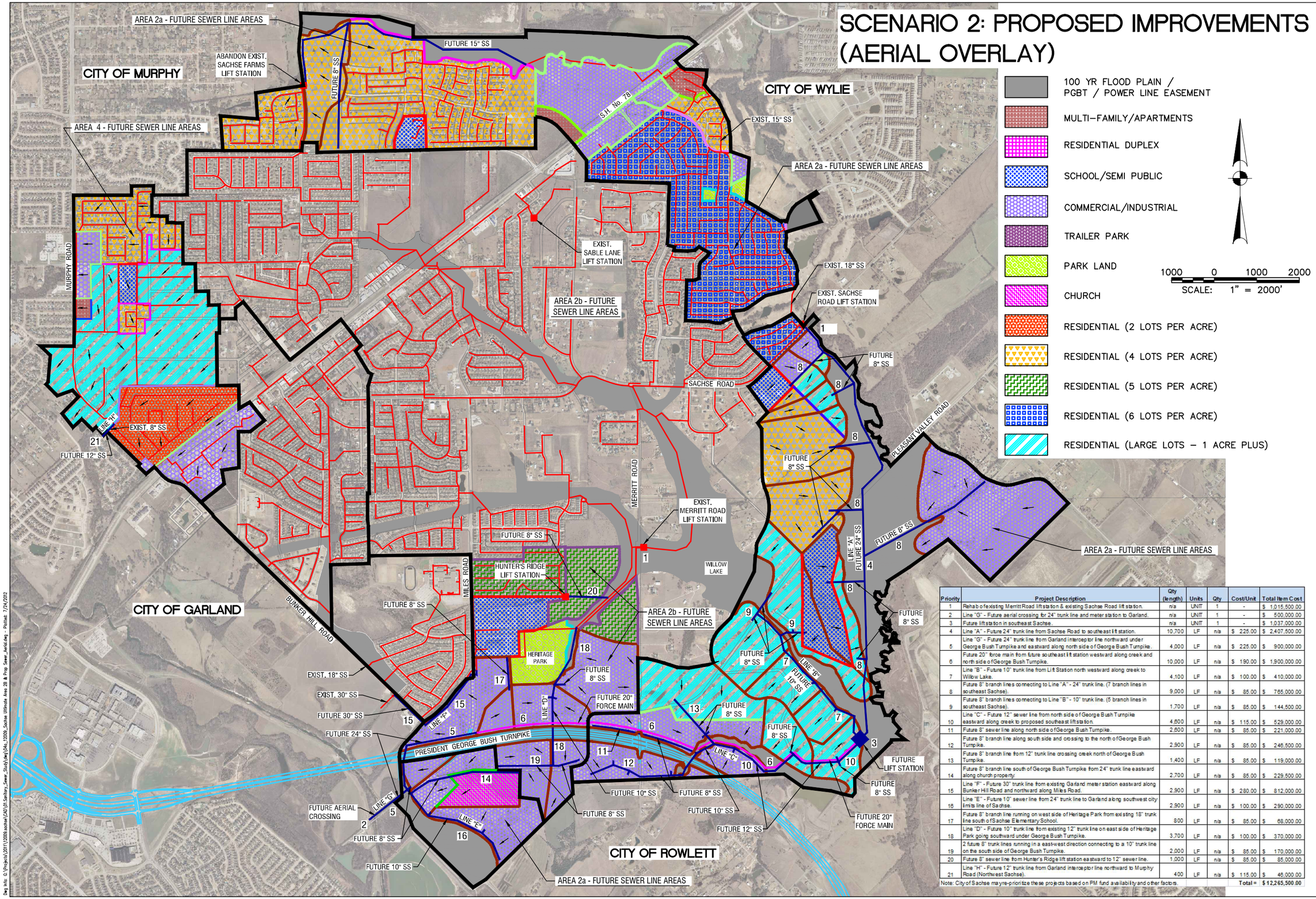
REVISIONS

CobbFendley
Texas Registration No. 274
6801 Gaylord Parkway, Suite 302
Frisco, Texas 75034
972.335.3214 | fax 972.335.3202 | www.cobbfendley.com

DATE: JUN 2012
SCALE: 1" = 2000'
DESIGN BY:
DRAWN BY:
SHEET NO. 09 of 22
JOB NUMBER: 1012-009-01
SHEET ID: 08a_12009_Sachse Exist & Future Lift Station Map.dwg

Dwg Info: G:\Projects\2011\12009.sachse\cad\01.Sanitary_Sewer_Study\dwg\08a_12009_Sachse Exist & Future Lift Station Map.dwg - Plotted: 7/19/2012

SCENARIO 2: PROPOSED IMPROVEMENTS (AERIAL OVERLAY)



Priority	Project Description	Qty (length)	Units	Qty	Cost/Unit	Total Item Cost
1	Rehab of existing Merritt Road lift station & existing Sachse Road lift station.	n/a	UNIT	1	-	$ 1,015,500.00
2	Line "G" - Future aerial crossing for 24" trunk line and meter station to Garland.	n/a	UNIT	1	-	$ 500,000.00
3	Future lift station in southeast Sachse.	n/a	UNIT	1	-	$ 1,037,000.00
4	Line "A" - Future 24" trunk line from Sachse Road to southeast lift station.	10,700	LF	n/a	$ 225.00	$ 2,407,500.00
5	Line "G" - Future 24" trunk line from Garland interceptor line northward under George Bush Turnpike and eastward along north side of George Bush Turnpike.	4,000	LF	n/a	$ 225.00	$ 900,000.00
6	Future 20" force main from future southeast lift station westward along creek and north side of George Bush Turnpike.	10,000	LF	n/a	$ 190.00	$ 1,900,000.00
7	Line "B" - Future 10" trunk line from Lift Station north westward along creek to Willow Lake.	4,100	LF	n/a	$ 100.00	$ 410,000.00
8	Future 8" branch lines connecting to Line "A" - 24" trunk line. (7 branch lines in southeast Sachse).	9,000	LF	n/a	$ 85.00	$ 765,000.00
9	Future 8" branch lines connecting to Line "B" - 10" trunk line. (5 branch lines in southeast Sachse).	1,700	LF	n/a	$ 85.00	$ 144,500.00
10	Line "C" - Future 12" sewer line from north side of George Bush Turnpike eastward along creek to proposed southeast lift station.	4,600	LF	n/a	$ 115.00	$ 529,000.00
11	Future 8" sewer line along north side of George Bush Turnpike.	2,600	LF	n/a	$ 85.00	$ 221,000.00
12	Future 8" branch line along south side and crossing to the north of George Bush Turnpike.	2,900	LF	n/a	$ 85.00	$ 246,500.00
13	Future 8" branch line from 12" trunk line crossing creek north of George Bush Turnpike.	1,400	LF	n/a	$ 85.00	$ 119,000.00
14	Future 8" branch line south of George Bush Turnpike from 24" trunk line eastward along church property.	2,700	LF	n/a	$ 85.00	$ 229,500.00
15	Line "F" - Future 30" trunk line from existing Garland meter station eastward along Bunker Hill Road and northward along Miles Road.	2,900	LF	n/a	$ 280.00	$ 812,000.00
16	Line "E" - Future 10" sewer line from 24" trunk line to Garland along southwest city limits line of Sachse.	2,900	LF	n/a	$ 100.00	$ 290,000.00
17	Future 8" branch line running on west side of Heritage Park from existing 18" trunk line south of Sachse Elementary School.	800	LF	n/a	$ 85.00	$ 68,000.00
18	Line "D" - Future 10" trunk line from existing 12" trunk line on east side of Heritage Park going southward under George Bush Turnpike.	3,700	LF	n/a	$ 100.00	$ 370,000.00
19	2 future 8" trunk lines running in a east-west direction connecting to a 10" trunk line on the south side of George Bush Turnpike.	2,000	LF	n/a	$ 85.00	$ 170,000.00
20	Future 8" sewer line from Hunter's Ridge lift station eastward to 12" sewer line.	1,000	LF	n/a	$ 85.00	$ 85,000.00
21	Line "H" - Future 12" trunk line from Garland interceptor line northward to Murphy Road (Northwest Sachse).	400	LF	n/a	$ 115.00	$ 46,000.00
					Total =	$ 12,265,500.00

Note: City of Sachse may re-prioritize these projects based on PM fund availability and other factors.

NO.	DATE	REVISIONS COMMENT
1	6/20/12	REVISED PRIORITY TABLE AND ADDED AREA 4 W/ LINE "H"

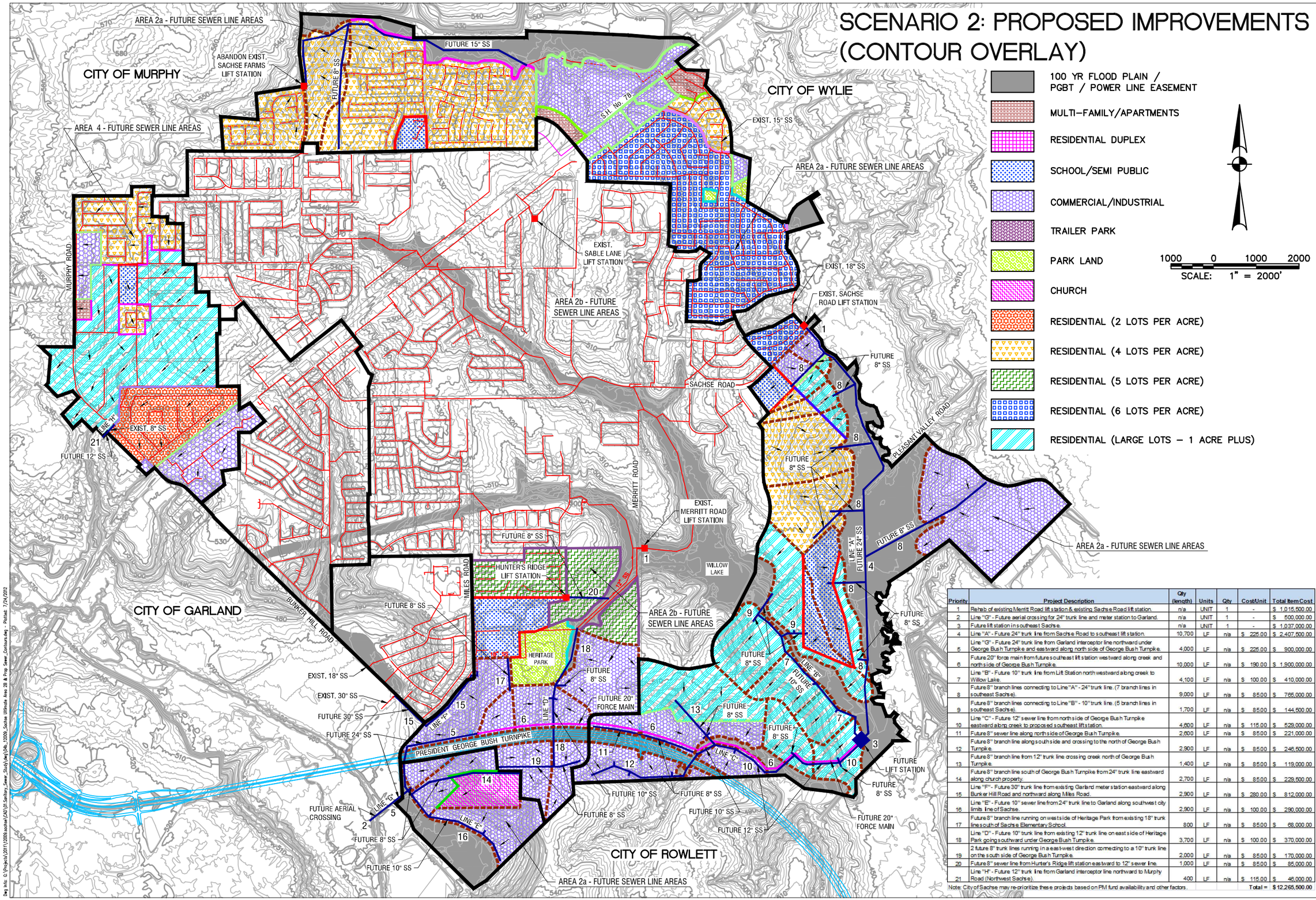
CobbFendley
Texas Registration No. 274
6801 Gaylord Parkway, Suite 302
Frisco, Texas 75034
972.335.3214 | fax 972.335.3202 | www.cobbfendley.com

DATE: JUL 2012
DESIGN BY: TJB
SHEET NO. 18 of 22
SCALE: 1"=2000'
DRAWN BY: TJB
JOB NUMBER: 11.12.0200.01
SHEET ID: 0ALL12000_Sachse Ultimate Area 2B & Prop Sewer_Aerial.dwg

-3

Dwg Info: G:\Projects\2011\12000.sachse\CAD\01.Sanitary_Sewer_Study\dwg\0ALL12000_Sachse Ultimate Area 2B & Prop Sewer_Aerial.dwg - Plotted: 7/24/2012

SCENARIO 2: PROPOSED IMPROVEMENTS (CONTOUR OVERLAY)



Priority	Project Description	Qty (length)	Units	Qty	Cost/Unit	Total Item Cost
1	Rehab of existing Merritt Road lift station & existing Sachse Road lift station.	n/a	UNIT	1	-	$ 1,015,500.00
2	Line "G" - Future aerial crossing for 24" trunk line and meter station to Garland.	n/a	UNIT	1	-	$ 500,000.00
3	Future lift station in southeast Sachse.	n/a	UNIT	1	-	$ 1,037,000.00
4	Line "A" - Future 24" trunk line from Sachse Road to southeast lift station.	10,700	LF	n/a	$ 225.00	$ 2,407,500.00
5	Line "G" - Future 24" trunk line from Garland interceptor line northward under George Bush Turnpike and eastward along north side of George Bush Turnpike.	4,000	LF	n/a	$ 225.00	$ 900,000.00
6	Future 20" force main from future southeast lift station westward along creek and north side of George Bush Turnpike.	10,000	LF	n/a	$ 190.00	$ 1,900,000.00
7	Line "B" - Future 10" trunk line from Lift Station north westward along creek to Willow Lake.	4,100	LF	n/a	$ 100.00	$ 410,000.00
8	Future 8" branch lines connecting to Line "A" - 24" trunk line. (7 branch lines in southeast Sachse).	9,000	LF	n/a	$ 85.00	$ 765,000.00
9	Future 8" branch lines connecting to Line "B" - 10" trunk line. (5 branch lines in southeast Sachse).	1,700	LF	n/a	$ 85.00	$ 144,500.00
10	Line "C" - Future 12" sewer line from north side of George Bush Turnpike eastward along creek to proposed southeast lift station.	4,600	LF	n/a	$ 115.00	$ 529,000.00
11	Future 8" sewer line along north side of George Bush Turnpike.	2,600	LF	n/a	$ 85.00	$ 221,000.00
12	Future 8" branch line along south side and crossing to the north of George Bush Turnpike.	2,900	LF	n/a	$ 85.00	$ 246,500.00
13	Future 8" branch line from 12" trunk line crossing creek north of George Bush Turnpike.	1,400	LF	n/a	$ 85.00	$ 119,000.00
14	Future 8" branch line south of George Bush Turnpike from 24" trunk line eastward along church property.	2,700	LF	n/a	$ 85.00	$ 229,500.00
15	Line "F" - Future 30" trunk line from existing Garland meter station eastward along Bunker Hill Road and northward along Miles Road.	2,900	LF	n/a	$ 280.00	$ 812,000.00
16	Line "E" - Future 10" sewer line from 24" trunk line to Garland along southwest city limits line of Sachse.	2,900	LF	n/a	$ 100.00	$ 290,000.00
17	Future 8" branch line running on west side of Heritage Park from existing 18" trunk line south of Sachse Elementary School.	800	LF	n/a	$ 85.00	$ 68,000.00
18	Line "D" - Future 10" trunk line from existing 12" trunk line on east side of Heritage Park going southward under George Bush Turnpike.	3,700	LF	n/a	$ 100.00	$ 370,000.00
19	2 future 8" trunk lines running in a east-west direction connecting to a 10" trunk line on the south side of George Bush Turnpike.	2,000	LF	n/a	$ 85.00	$ 170,000.00
20	Future 8" sewer line from Hunter's Ridge lift station eastward to 12" sewer line.	1,000	LF	n/a	$ 85.00	$ 85,000.00
21	Line "H" - Future 12" trunk line from Garland interceptor line northward to Murphy Road (Northwest Sachse).	400	LF	n/a	$ 115.00	$ 46,000.00
					Total =	$ 12,265,500.00

Note: City of Sachse may re-prioritize these projects based on PM fund availability and other factors.

NO.	DATE	COMMENT
1	6/20/12	REVISED PRIORITY TABLE AND ADDED AREA 4 W/ LINE "H"

REVISIONS

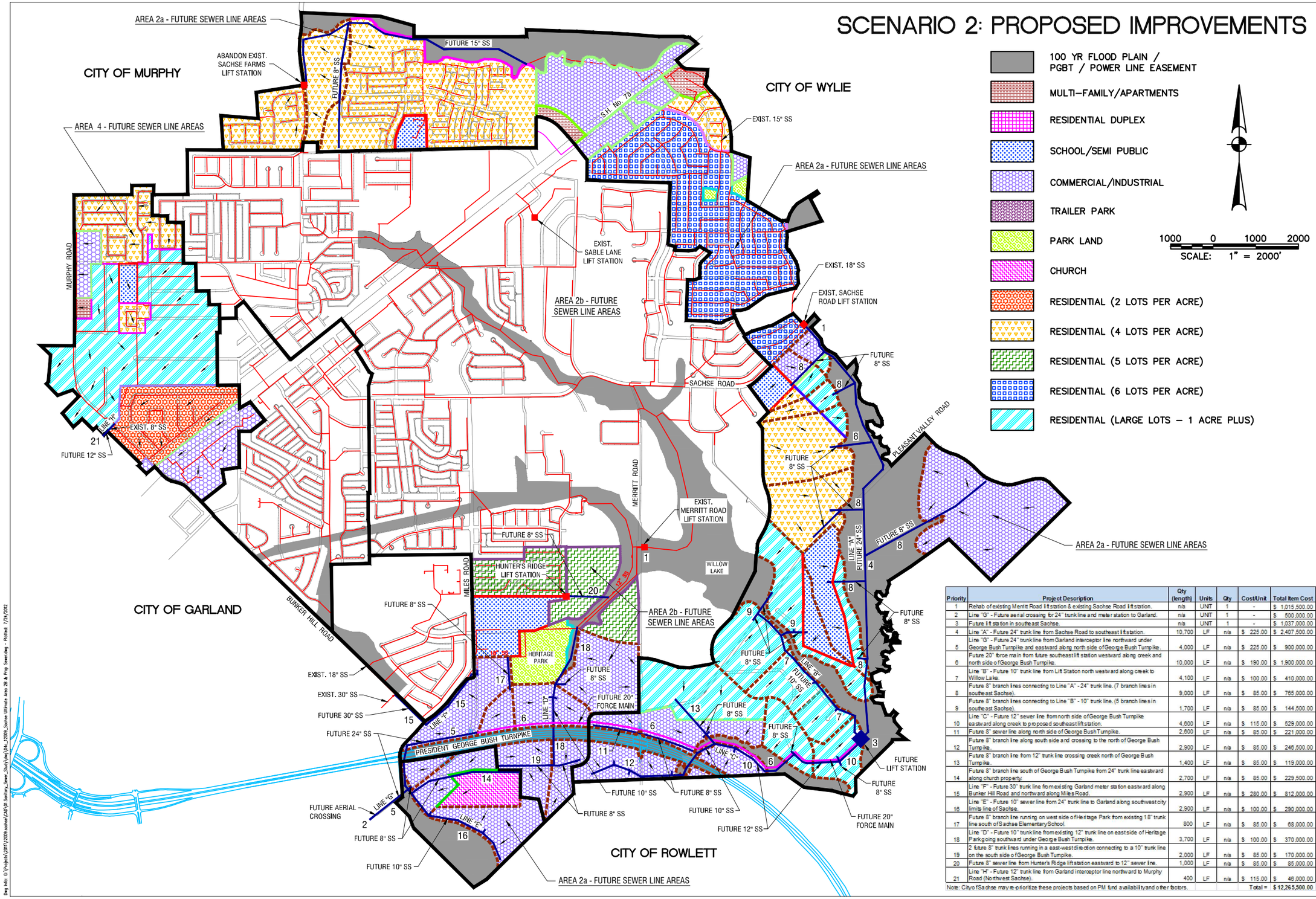
CobbFendley
Texas Registration No. 274
6801 Gaylord Parkway, Suite 302
Frisco, Texas 75034
972.335.3214 | fax 972.335.3202 | www.cobbfendley.com

SCALE: 1"=2000'
DRAWN BY: TBP
JOB NUMBER: 1112.009.01
DATE: JUL 2012
DESIGN BY: TBP
SHEET NO. 11 of 22
SHEET ID: SKc_12009_Sachse Ultimate Area 2B & Prop Sewer_Contours.dwg

-3

Dwg Info: G:\Projects\2011\12009 sachse\CAD\01-Sanitary_Sewer_Study\dwg\04b_12009_Sachse Ultimate Area 2B & Prop Sewer_Contours.dwg - Plotted: 7/24/2012

SCENARIO 2: PROPOSED IMPROVEMENTS



Priority	Project Description	Qty (length)	Units	Qty	Cost/Unit	Total Item Cost
1	Rehab of existing Merritt Road lift station & existing Sachse Road lift station.	n/a	UNIT	1	-	$ 1,015,500.00
2	Line "G" - Future aerial crossing for 24" trunk line and meter station to Garland.	n/a	UNIT	1	-	$ 500,000.00
3	Future lift station in southeast Sachse.	n/a	UNIT	1	-	$ 1,037,000.00
4	Line "A" - Future 24" trunk line from Sachse Road to southeast lift station.	10,700	LF	n/a	$ 225.00	$ 2,407,500.00
5	Line "G" - Future 24" trunk line from Garland interceptor line northward under George Bush Turnpike and eastward along north side of George Bush Turnpike.	4,000	LF	n/a	$ 225.00	$ 900,000.00
6	Future 20" force main from future southeast lift station westward along creek and north side of George Bush Turnpike.	10,000	LF	n/a	$ 190.00	$ 1,900,000.00
7	Line "B" - Future 10" trunk line from Lift Station north westward along creek to Willow Lake.	4,100	LF	n/a	$ 100.00	$ 410,000.00
8	Future 8" branch lines connecting to Line "A" - 24" trunk line. (7 branch lines in southeast Sachse).	9,000	LF	n/a	$ 85.00	$ 765,000.00
9	Future 8" branch lines connecting to Line "B" - 10" trunk line. (5 branch lines in southeast Sachse).	1,700	LF	n/a	$ 85.00	$ 144,500.00
10	Line "C" - Future 12" sewer line from north side of George Bush Turnpike eastward along creek to proposed southeast lift station.	4,600	LF	n/a	$ 115.00	$ 529,000.00
11	Future 8" sewer line along north side of George Bush Turnpike.	2,600	LF	n/a	$ 85.00	$ 221,000.00
12	Future 8" branch line along south side and crossing to the north of George Bush Turnpike.	2,900	LF	n/a	$ 85.00	$ 246,500.00
13	Future 8" branch line from 12" trunk line crossing creek north of George Bush Turnpike.	1,400	LF	n/a	$ 85.00	$ 119,000.00
14	Future 8" branch line south of George Bush Turnpike from 24" trunk line eastward along church property.	2,700	LF	n/a	$ 85.00	$ 229,500.00
15	Line "F" - Future 30" trunk line from existing Garland meter station eastward along Bunker Hill Road and northward along Miles Road.	2,900	LF	n/a	$ 280.00	$ 812,000.00
16	Line "E" - Future 10" sewer line from 24" trunk line to Garland along southwest city limits line of Sachse.	2,900	LF	n/a	$ 100.00	$ 290,000.00
17	Future 8" branch line running on west side of Heritage Park from existing 18" trunk line south of Sachse Elementary School.	800	LF	n/a	$ 85.00	$ 68,000.00
18	Line "D" - Future 10" trunk line from existing 12" trunk line on east side of Heritage Park going southward under George Bush Turnpike.	3,700	LF	n/a	$ 100.00	$ 370,000.00
19	2 future 8" trunk lines running in a east-west direction connecting to a 10" trunk line on the south side of George Bush Turnpike.	2,000	LF	n/a	$ 85.00	$ 170,000.00
20	Future 8" sewer line from Hunter's Ridge lift station eastward to 12" sewer line.	1,000	LF	n/a	$ 85.00	$ 85,000.00
21	Line "H" - Future 12" trunk line from Garland interceptor line northward to Murphy Road (Northwest Sachse).	400	LF	n/a	$ 115.00	$ 46,000.00
					Total =	$ 12,265,500.00

Note: City of Sachse may re-prioritize these projects based on PM, fund availability and other factors.

NO.	DATE	COMMENT
1	6/20/12	ADDED THIS SHEET SHOWING NO CONTOUR OR AERIAL OVERLAY.

REVISIONS

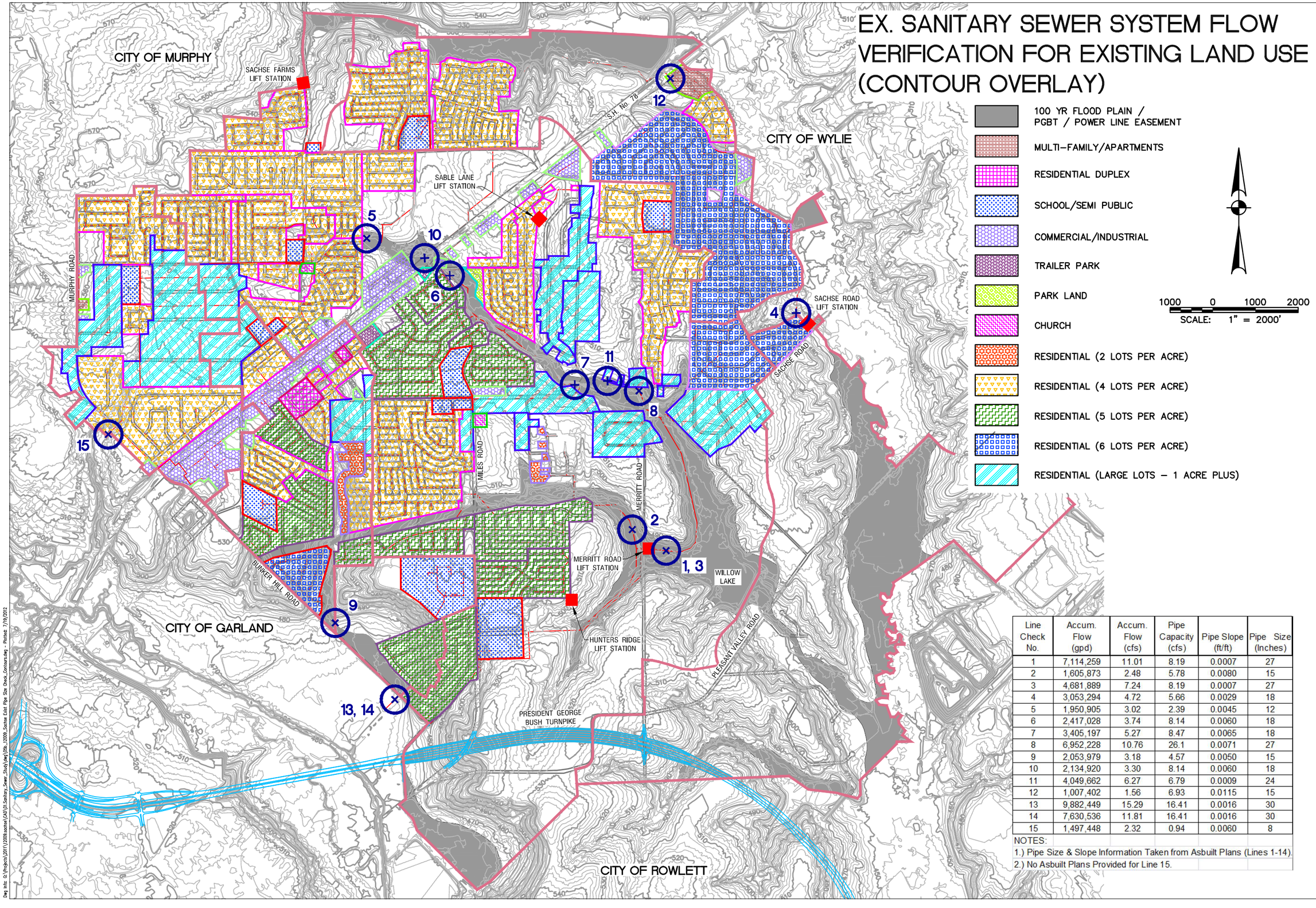
CobbFendley
Texas Registration No. 274
6801 Gaylord Parkway, Suite 302
Frisco, Texas 75034
972.335.3214 | fax 972.335.3202 | www.cobbfendley.com

DATE: JUL 2012
DESIGN BY:
SCALE: 1" = 2000'
DRAWN BY:
SHEET NO. 12 of 22
JOB NUMBER: 11124-009-01
SHEET ID: CHL_12009_Sachse Ultimate Area 2B & Prop Sewer.dwg

-3

Dwg Info: G:\Projects\2011\12009.sachse\CAD\01-Sanitary_Sewer_Study\dwg\04-_12009_Sachse Ultimate Area 2B & Prop Sewer.dwg - Plotted: 7/24/2012

EX. SANITARY SEWER SYSTEM FLOW VERIFICATION FOR EXISTING LAND USE (CONTOUR OVERLAY)



Line Check No.	Accum. Flow (gpd)	Accum. Flow (cfs)	Pipe Capacity (cfs)	Pipe Slope (ft/ft)	Pipe Size (Inches)
1	7,114,259	11.01	8.19	0.0007	27
2	1,605,873	2.48	5.78	0.0080	15
3	4,681,889	7.24	8.19	0.0007	27
4	3,053,294	4.72	5.66	0.0029	18
5	1,950,905	3.02	2.39	0.0045	12
6	2,417,028	3.74	8.14	0.0060	18
7	3,405,197	5.27	8.47	0.0065	18
8	6,952,228	10.76	26.1	0.0071	27
9	2,053,979	3.18	4.57	0.0050	15
10	2,134,920	3.30	8.14	0.0060	18
11	4,049,662	6.27	6.79	0.0009	24
12	1,007,402	1.56	6.93	0.0115	15
13	9,882,449	15.29	16.41	0.0016	30
14	7,630,536	11.81	16.41	0.0016	30
15	1,497,448	2.32	0.94	0.0060	8

NOTES:
1.) Pipe Size & Slope Information Taken from Asbuilt Plans (Lines 1-14).
2.) No Asbuilt Plans Provided for Line 15.

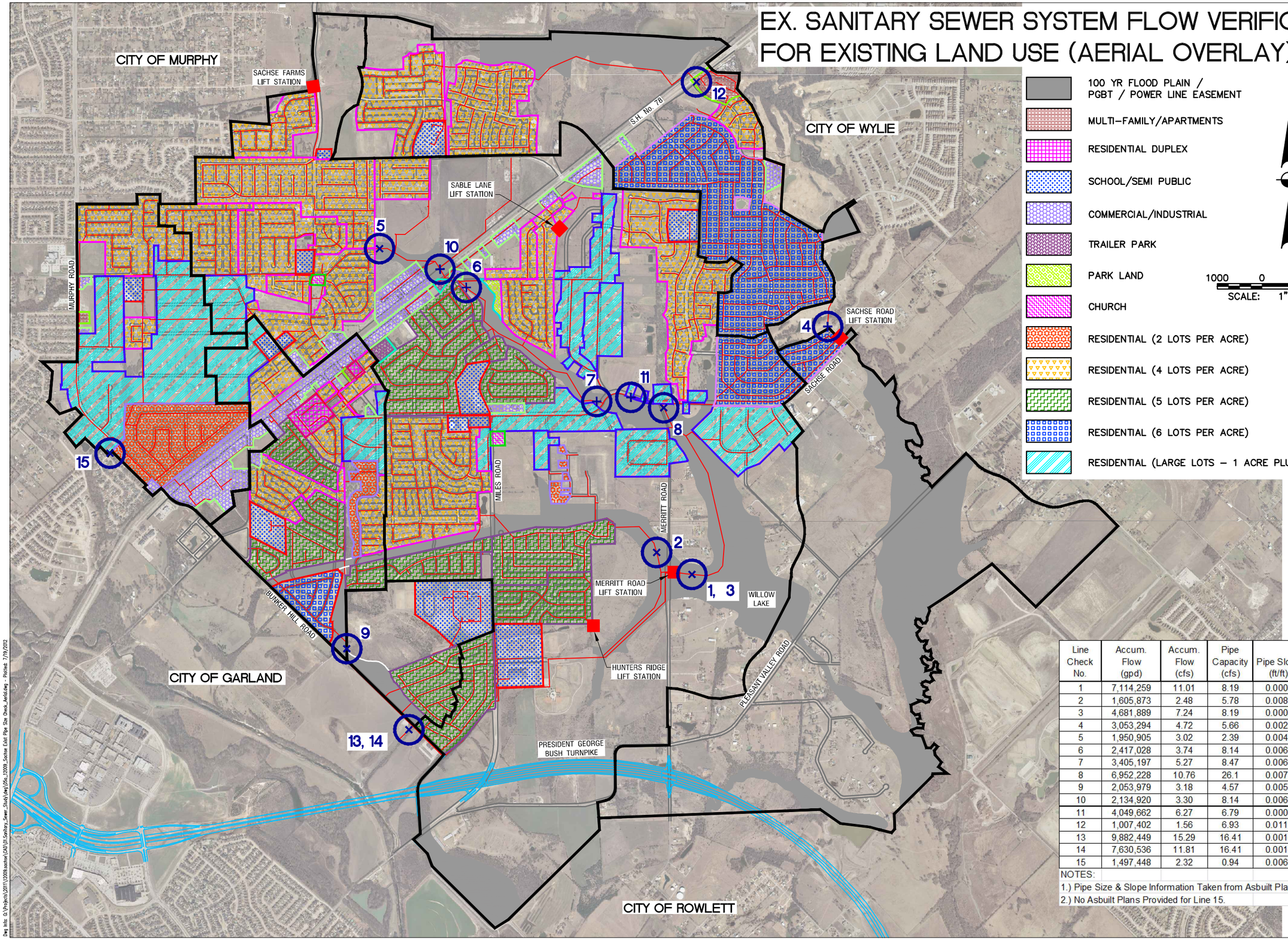
REVISIONS			
NO.	DATE	COMMENT
1	4/4/12	ADDED LINE CHECK No. 14 & REVISED LINE No. 13 PIPE SLOPE

CobbFendley
Texas Registration No. 274
6801 Gaylord Parkway, Suite 302
Frisco, Texas 75034
972.335.3214 | fax 972.335.3202 | www.cobbfendley.com

DATE: JUL 2012
SCALE: 1" = 2000'
DESIGN BY:
DRAWN BY:
SHEET NO. 13 of 22
JOB NUMBER: 1012-009-01
SHEET ID: 009c_12009_Sachse Exist Pipe Size Check_Contours.dwg

Dwg Info: G:\Projects\2011\12009.sachse\CAD\01.Sanitary_Sewer_Study\dwg\009c_12009_Sachse Exist Pipe Size Check_Contours.dwg - Plotted: 7/19/2012

EX. SANITARY SEWER SYSTEM FLOW VERIFICATION FOR EXISTING LAND USE (AERIAL OVERLAY)



Line Check No.	Accum. Flow (gpd)	Accum. Flow (cfs)	Pipe Capacity (cfs)	Pipe Slope (ft/ft)	Pipe Size (Inches)
1	7,114,259	11.01	8.19	0.0007	27
2	1,605,873	2.48	5.78	0.0080	15
3	4,681,889	7.24	8.19	0.0007	27
4	3,053,294	4.72	5.66	0.0029	18
5	1,950,905	3.02	2.39	0.0045	12
6	2,417,028	3.74	8.14	0.0060	18
7	3,405,197	5.27	8.47	0.0065	18
8	6,952,228	10.76	26.1	0.0071	27
9	2,053,979	3.18	4.57	0.0050	15
10	2,134,920	3.30	8.14	0.0060	18
11	4,049,662	6.27	6.79	0.0009	24
12	1,007,402	1.56	6.93	0.0115	15
13	9,882,449	15.29	16.41	0.0016	30
14	7,630,536	11.81	16.41	0.0016	30
15	1,497,448	2.32	0.94	0.0060	8

NOTES:
1.) Pipe Size & Slope Information Taken from Asbuilt Plans (Lines 1-14).
2.) No Asbuilt Plans Provided for Line 15.

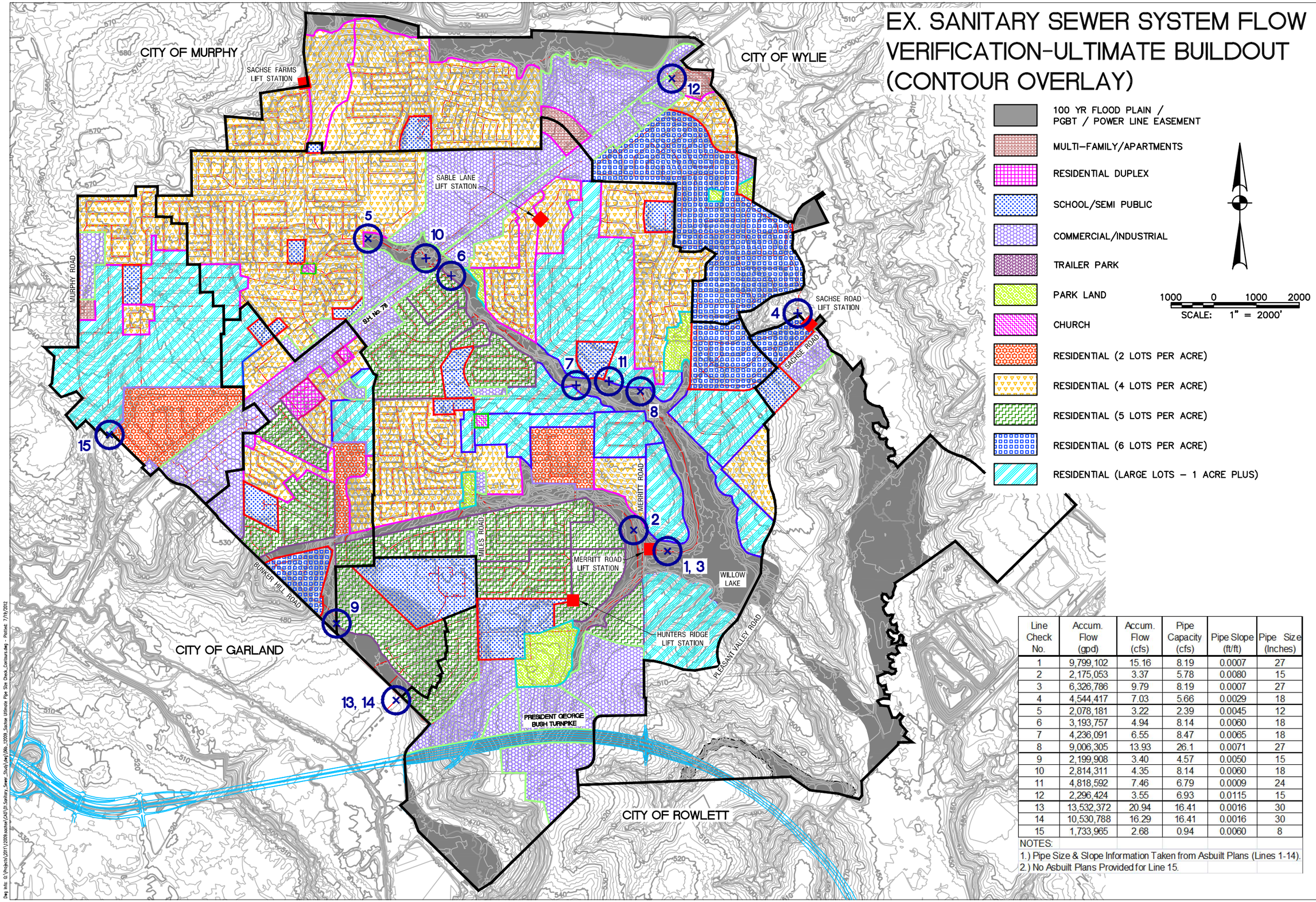
REVISIONS		
NO.	DATE	COMMENT
1	4/4/12	ADDED LINE CHECK No. 14 & REVISED LINE No. 13 PIPE SLOPE

CobbFendley
Texas Registration No. 274
6801 Gaylord Parkway, Suite 302
Frisco, Texas 75034
972.335.3214 | fax 972.335.3202 | www.cobbfendley.com

DATE: JUL 2012
DESIGN BY:
SHEET NO. 1 of 22
SCALE: 1"=2000'
DRAWN BY:
JOB NUMBER: 1012-009-01
SHEET ID: 06a_12009_Sachse Exist Pipe Size Check_Aerial.dwg

Dwg Info: G:\Projects\2011\12009.sachse\CAD\01-Sanitary_Sewer_Study\dwg\06a_12009_Sachse Exist Pipe Size Check_Aerial.dwg - Plotted: 7/19/2012

EX. SANITARY SEWER SYSTEM FLOW VERIFICATION-ULTIMATE BUILDOUT (CONTOUR OVERLAY)



Line Check No.	Accum. Flow (gpd)	Accum. Flow (cfs)	Pipe Capacity (cfs)	Pipe Slope (ft/ft)	Pipe Size (Inches)
1	9,799,102	15.16	8.19	0.0007	27
2	2,175,053	3.37	5.78	0.0080	15
3	6,326,786	9.79	8.19	0.0007	27
4	4,544,417	7.03	5.66	0.0029	18
5	2,078,181	3.22	2.39	0.0045	12
6	3,193,757	4.94	8.14	0.0060	18
7	4,236,091	6.55	8.47	0.0065	18
8	9,006,305	13.93	26.1	0.0071	27
9	2,199,908	3.40	4.57	0.0050	15
10	2,814,311	4.35	8.14	0.0060	18
11	4,818,592	7.46	6.79	0.0009	24
12	2,296,424	3.55	6.93	0.0115	15
13	13,532,372	20.94	16.41	0.0016	30
14	10,530,788	16.29	16.41	0.0016	30
15	1,733,965	2.68	0.94	0.0060	8

NOTES:
1.) Pipe Size & Slope Information Taken from Asbuilt Plans (Lines 1-14).
2.) No Asbuilt Plans Provided for Line 15.

REVISIONS

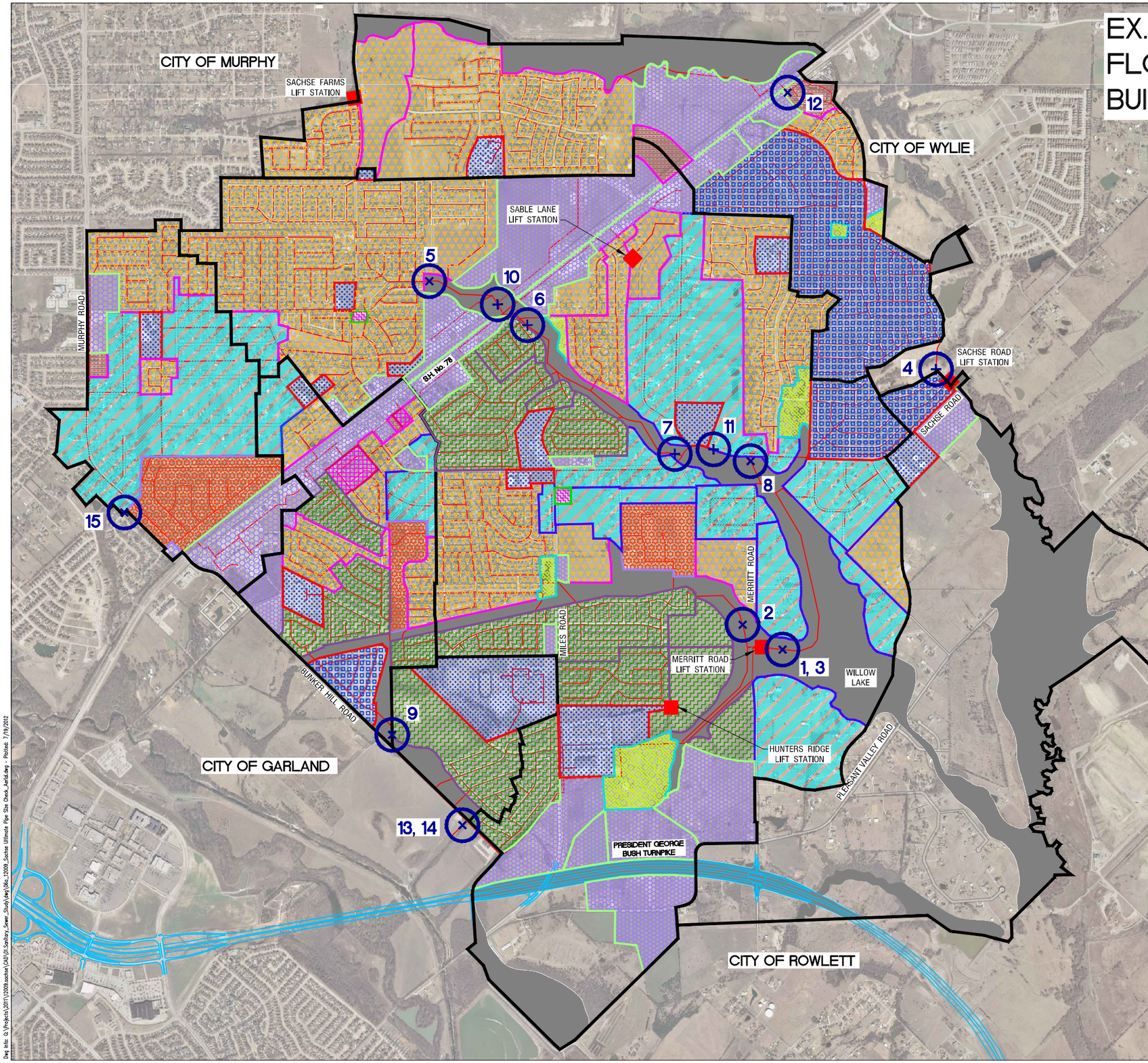
NO.	DATE	COMMENT
1	4/4/12	ADDED LINE CHECK No. 14 & REVISED LINE No. 13 PIPE SLOPE
2	6/20/12	ADDED LINE CHECK No. 15 & REVISED LINE TABLE

CobbFendley
Texas Registration No. 274
6801 Gaylord Parkway, Suite 302
Frisco, Texas 75034
972.335.3214 | fax 972.335.3202 | www.cobbfendley.com

DATE: JUL 2012
SCALE: 1" = 2000'
DESIGN BY:
DRAWN BY:
SHEET NO. 1 of 22
JOB NUMBER: 1012-009-01
SHEET ID: 08b_12009_Sachse Ultimate Pipe Size Check_Contours.dwg

Dwg Info: G:\Projects\2011\2009.sachse\Civil\05.Sanitary_Sewer_Study\dwg\08b_12009_Sachse Ultimate Pipe Size Check_Contours.dwg - Plotted: 7/19/2012

EX. SANITARY SEWER SYSTEM FLOW VERIFICATION - ULTIMATE BUILDOUT (AERIAL OVERLAY)



100 YR FLOOD PLAIN / PGBT / POWER LINE EASEMENT

MULTI-FAMILY/APARTMENTS

RESIDENTIAL DUPLEX

SCHOOL/SEMI PUBLIC

COMMERCIAL/INDUSTRIAL

TRAILER PARK

PARK LAND

CHURCH

RESIDENTIAL (2 LOTS PER ACRE)

RESIDENTIAL (4 LOTS PER ACRE)

RESIDENTIAL (5 LOTS PER ACRE)

RESIDENTIAL (6 LOTS PER ACRE)

RESIDENTIAL (LARGE LOTS – 1 ACRE PLUS)

1000 0 1000 2000

SCALE: 1" = 2000'

Line Check No.	Accum. Flow (gpd)	Accum. Flow (cfs)	Pipe Capacity (cfs)	Pipe Slope (ft/ft)	Pipe Size (Inches)
1	9,799,102	15.16	8.19	0.0007	27
2	2,175,053	3.37	5.78	0.0080	15
3	6,326,786	9.79	8.19	0.0007	27
4	4,544,417	7.03	5.66	0.0029	18
5	2,078,181	3.22	2.39	0.0045	12
6	3,193,757	4.94	8.14	0.0060	18
7	4,236,091	6.55	8.47	0.0065	18
8	9,006,305	13.93	26.1	0.0071	27
9	2,199,908	3.40	4.57	0.0050	15
10	2,814,311	4.35	8.14	0.0060	18
11	4,818,592	7.46	6.79	0.0009	24
12	2,296,424	3.55	6.93	0.0115	15
13	13,532,372	20.94	16.41	0.0016	30
14	10,530,788	16.29	16.41	0.0016	30
15	1,733,965	2.68	0.94	0.0060	8

NOTES:

1.) Pipe Size & Slope Information Taken from Asbuilt Plans (Lines 1-14).

2.) No Asbuilt Plans Provided for Line 15.

REVISIONS

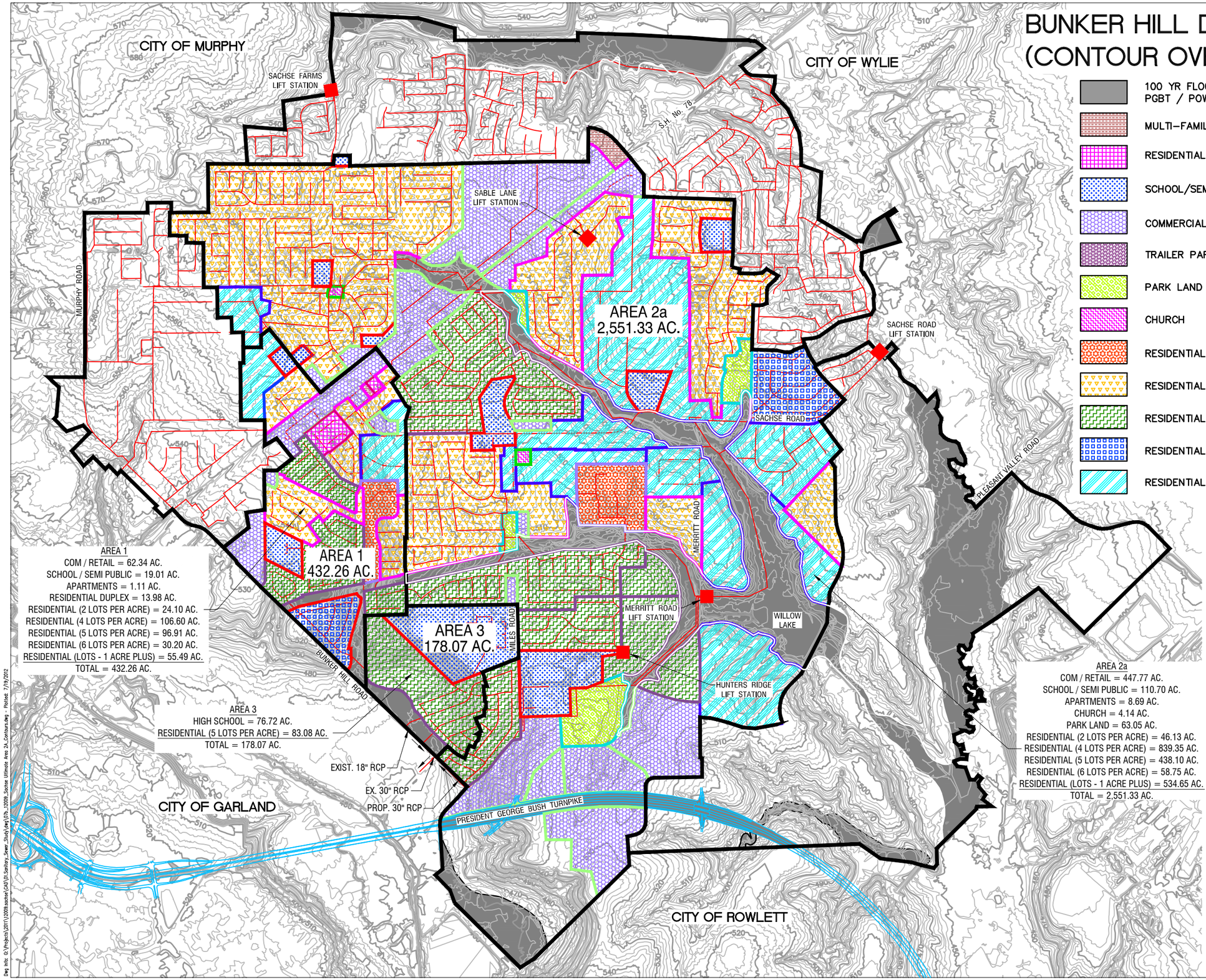
NO.	DATE	COMMENT
1	4/4/12	ADDED LINE CHECK No. 14 & REVISED LINE No. 13 PIPE SLOPE
2	6/20/12	ADDED LINE CHECK No. 15 & REVISED LINE TABLE

CobbFendley
Texas Registration No. 274
6801 Gaylord Parkway, Suite 302
Frisco, Texas 75034
972.335.3214 | fax 972.335.3202 | www.cobbfendley.com

DATE: JUL 2012
SCALE: 1"=2000'
DESIGN BY: TJD
DRAWN BY: TJD
SHEET NO. 1 of 22
JOB NUMBER: 1012-009-01
SHEET ID: 06a_12009_Sachse Ultimate Pipe Size Check_Aerial.dwg

Dwg Info: G:\Projects\2011\12009.sachse\CAD\01.Sanitary_Sewer_Study\dwg\06a_12009_Sachse Ultimate Pipe Size Check_Aerial.dwg - Plotted: 7/19/2012

BUNKER HILL DRAINAGE BASINS (CONTOUR OVERLAY)



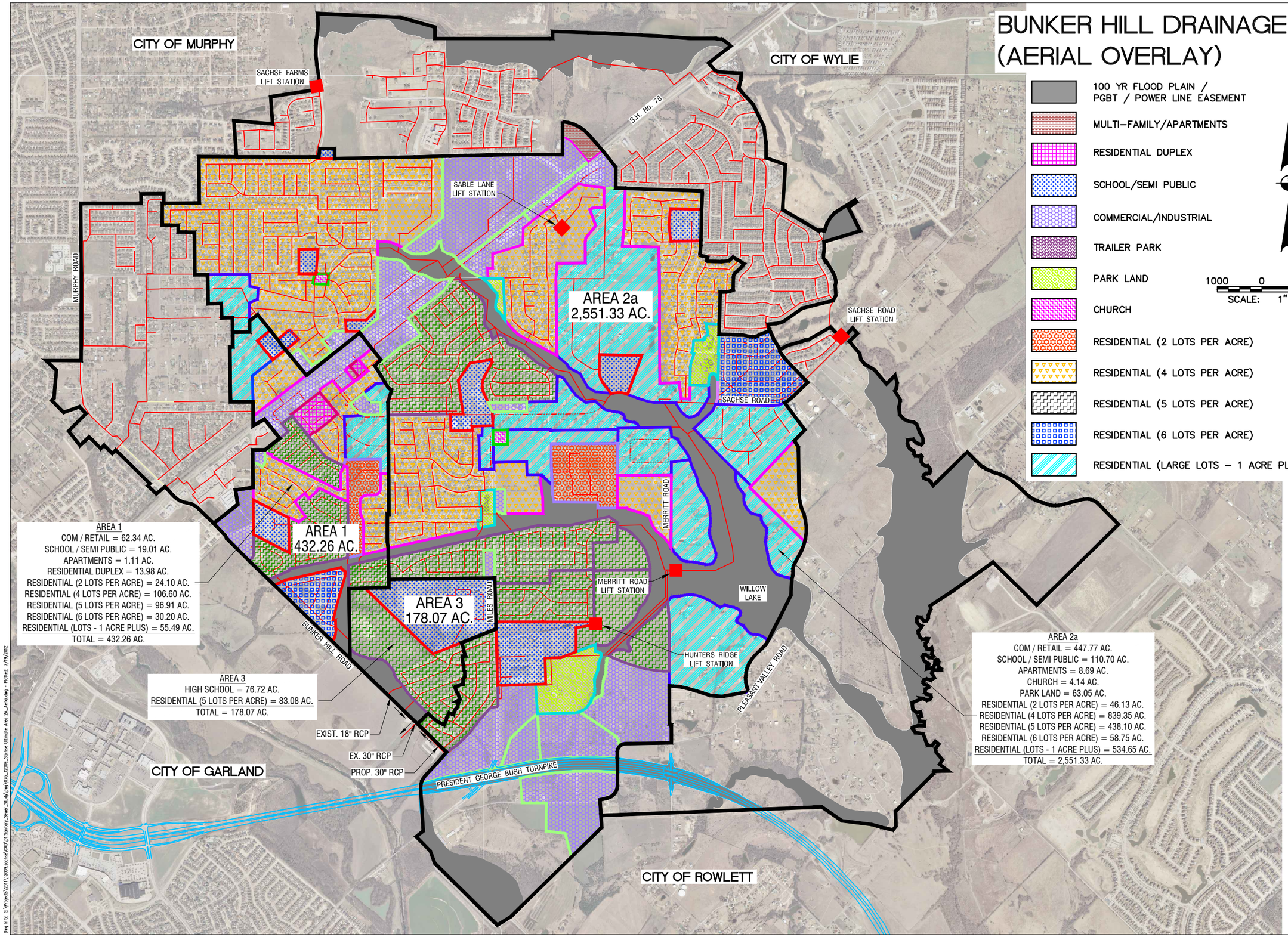
NO.	DATE	COMMENT
REVISIONS		

CobbFendley
Texas Registration No. 274
6801 Gaylord Parkway, Suite 302
Frisco, Texas 75034
972.335.3214 | fax 972.335.3202 | www.cobbfendley.com

DATE: JUN 2012
SCALE: 1" = 2000'
DESIGN BY:
DRAWN BY:
SHEET NO. 1 of 22
JOB NUMBER: 1012-009-01
SHEET ID: 07b_12009_Sachse Ultimate Area 2A_Contours.dwg

Dwg Info: G:\Projects\2011\12009.sachse\CAD\01-Sanitary_Sewer_Study\dwg\07b_12009_Sachse Ultimate Area 2A_Contours.dwg - PlotNet: 7/19/2012

BUNKER HILL DRAINAGE BASIN (AERIAL OVERLAY)



NO.	DATE	COMMENT

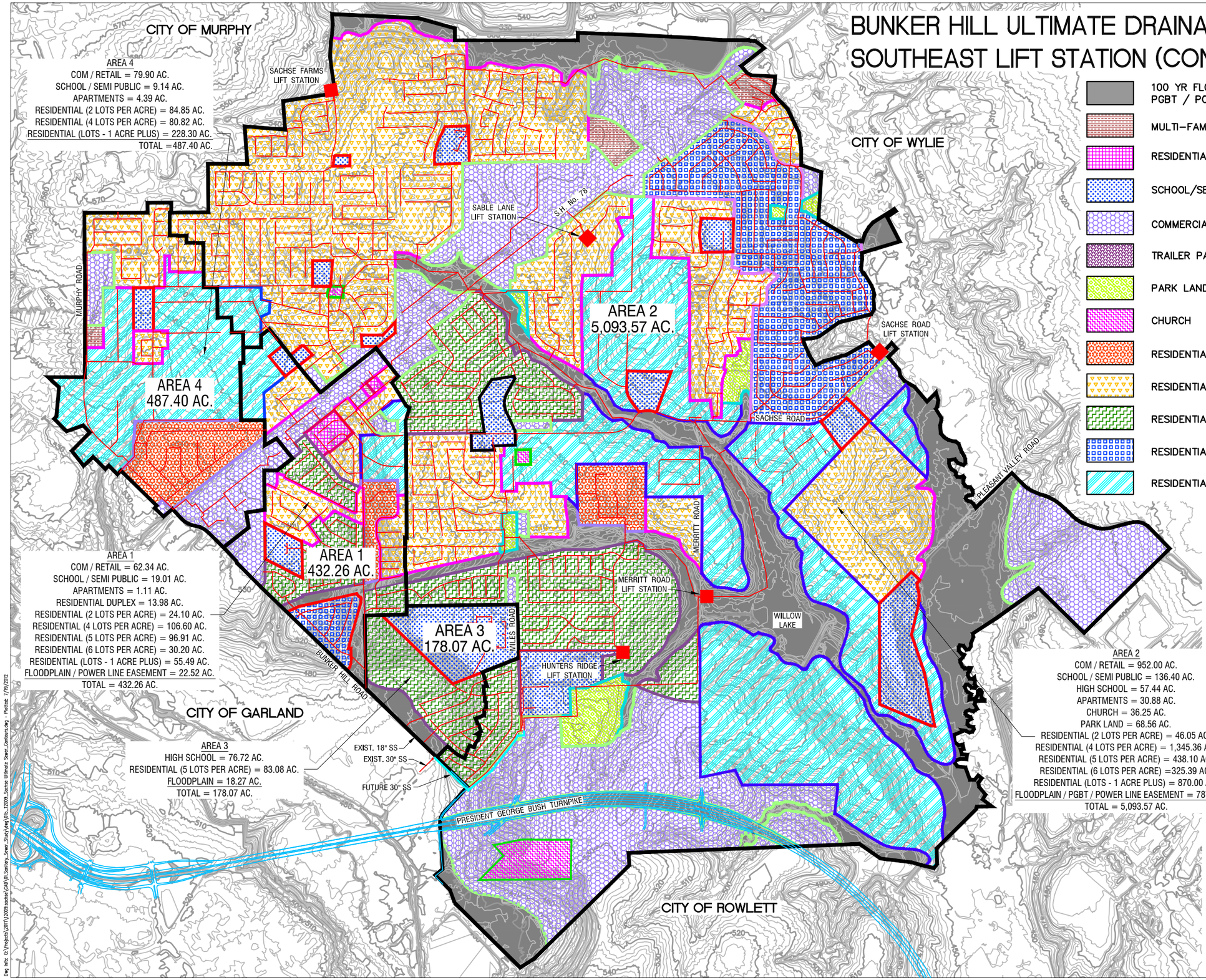
REVISIONS

CobbFendley
Texas Registration No. 274
6801 Gaylord Parkway, Suite 302
Frisco, Texas 75034
972.335.3214 | fax 972.335.3202 | www.cobbfendley.com

DATE: JUN 2012
SCALE: 1" = 2000'
DESIGN BY:
DRAWN BY:
SHEET NO. 1 of 22
JOB NUMBER: 1012-009-01
SHEET ID: 07a_12009_Sachse Ultimate Area 2A_Aerial.dwg

Dwg Info: G:\Projects\2011\12009.sachse\Civil\05.Sanitary_Sewer_Study\dwg\07a_12009_Sachse Ultimate Area 2A_Aerial.dwg , Plotted: 7/19/2012

BUNKER HILL ULTIMATE DRAINAGE BASIN WITHOUT SOUTHEAST LIFT STATION (CONTOUR OVERLAY)



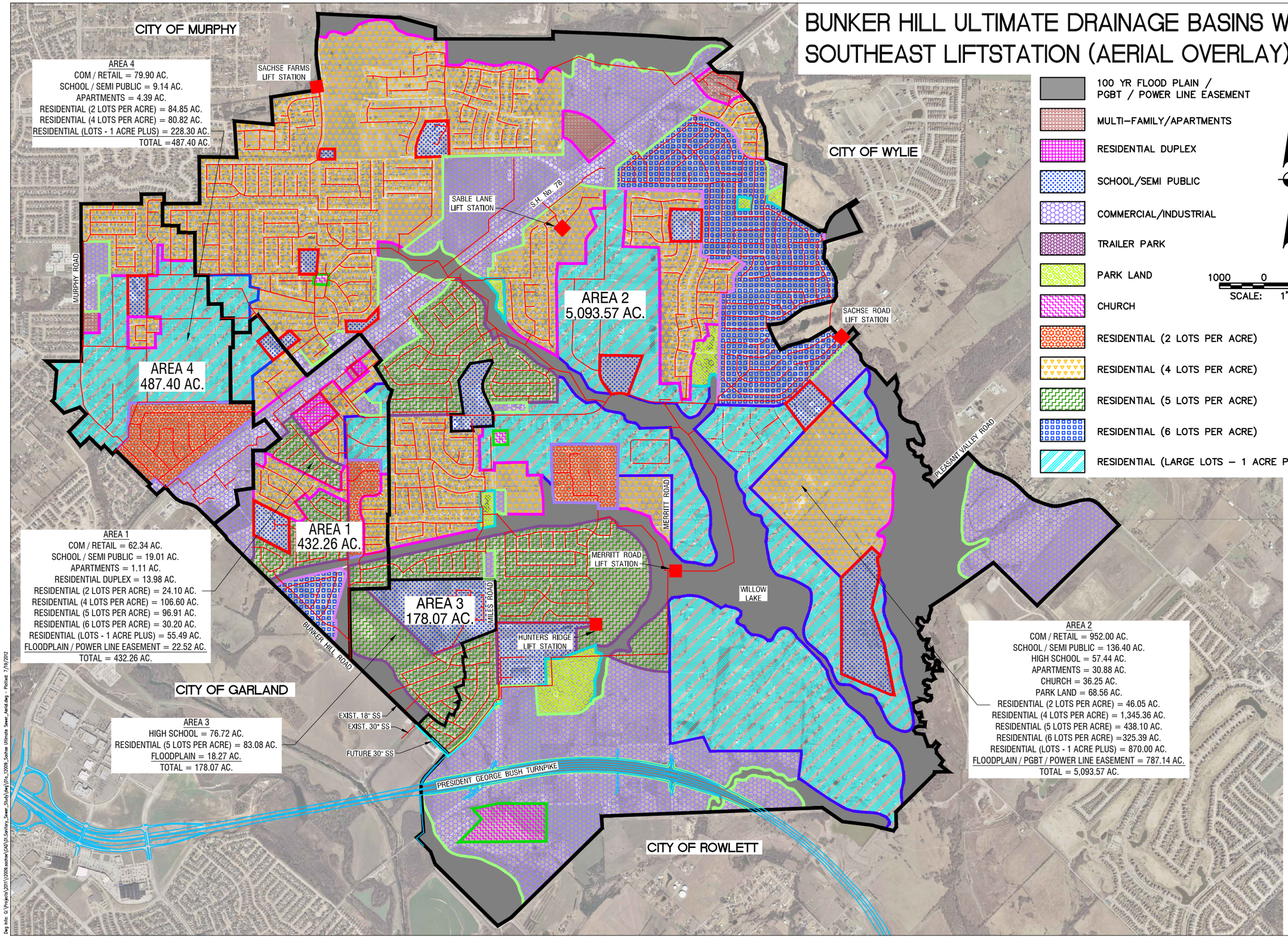
NO.	DATE	REVISIONS	COMMENT

CobbFendley
Texas Registration No. 274
6801 Gaylord Parkway, Suite 302
Frisco, Texas 75034
972.335.3214 | fax 972.335.3202 | www.cobbfendley.com

DATE: JUN 2012
SCALE: 1" = 2000'
DESIGN BY:
DRAWN BY:
SHEET NO. 19 of 22
JOB NUMBER: 1012-009-01
SHEET ID: 01b_12009_Sachse Ultimate Sewer_Contours.dwg

Dwg Info: Q:\Projects\2011\12009.sachse\CAD\01-Sanitary_Sewer_Study\dwg\01b_12009_Sachse Ultimate Sewer_Contours.dwg Plot Date: 7/19/2012

BUNKER HILL ULTIMATE DRAINAGE BASINS WITHOUT SOUTHEAST LIFTSTATION (AERIAL OVERLAY)



NO.	DATE	COMMENT

REVISIONS

CobbFendley
Texas Registration No. 274
6801 Gaylord Parkway, Suite 302
Frisco, Texas 75034
972.335.3214 | fax 972.335.3202 | www.cobbfendley.com

DATE: JUN 2012	SCALE: 1"=2000'
DESIGN BY:	DRAWN BY:
SHEET NO. 20 of 22	JOB NUMBER: 1012-009-01
SHEET ID: 01a_12009_Sachse Ultimate Sewer_Aerial.dwg	

Dwg loc: G:\Projects\2011\12009.sachse\CAD\01.Sanitary_Sewer_Study\dwg\01a_12009_Sachse Ultimate Sewer_Aerial.dwg - Plotted: 7/19/2012

City of Sachse Texas

N
W E
S

1250 625 0 1250 2500

SCALE : 1" = 2500'

NO.	DATE	REVISIONS	COMMENT

INTERIM REVIEW

"THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW UNDER THE AUTHORITY OF MATTHEW D. LEE, P.E. 98451 ON Sep 21, 2012 . IT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES."

CobbFendley
Texas Registration No. 274
6801 Gaylord Parkway, Suite 302
Frisco, Texas 75034
972.335.3214 | fax 972.335.3202 | www.cobfen.com

CITY OF SACHSE

THOROUGHFARE EXHIBIT

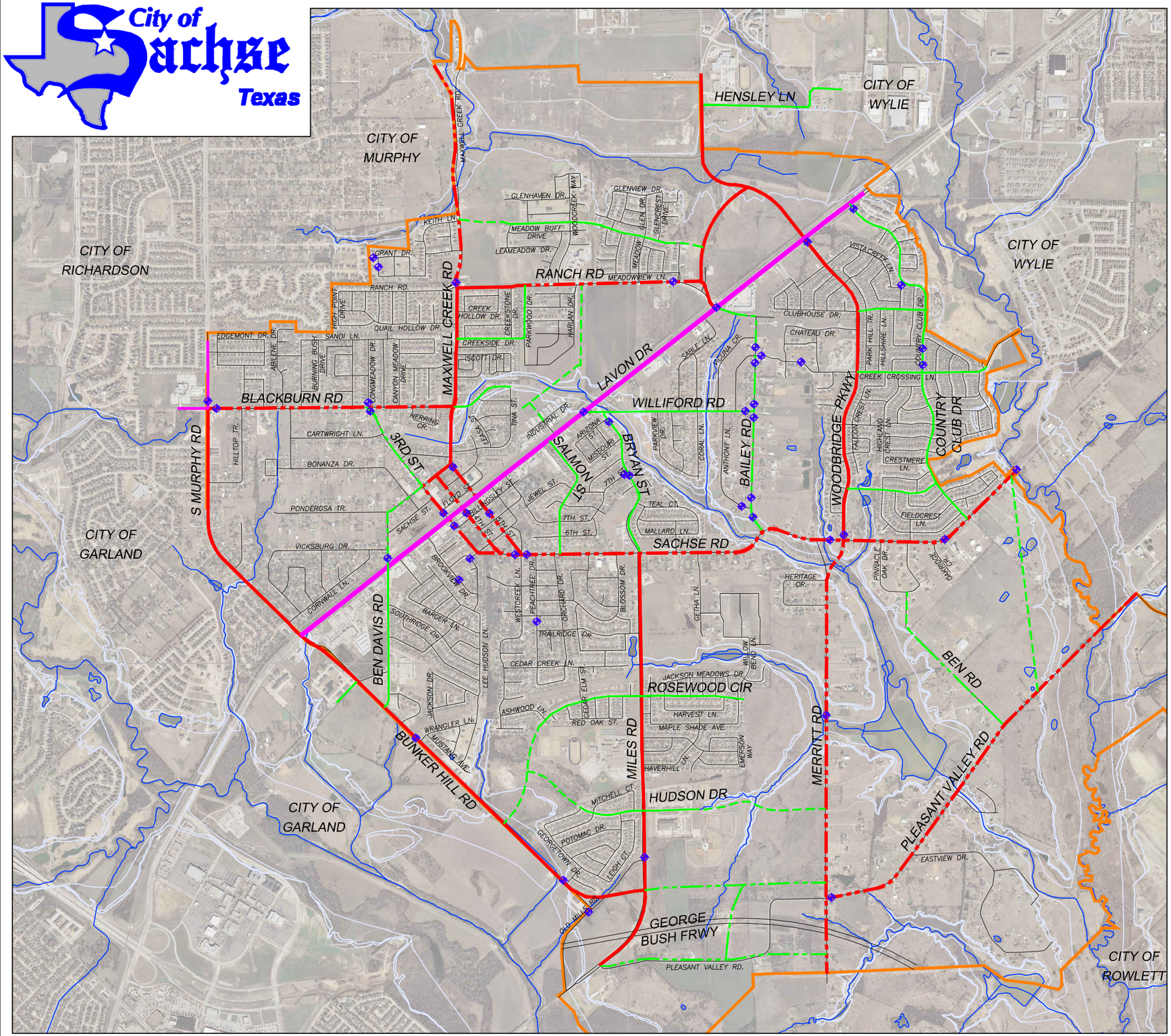
EXISTING STREET LAYOUT

DATE: NOV 2011	SCALE: 1" = 2500'
DESIGN BY: MDL	DRAWN BY: MDL
SHEET NO. 01 of 01	JOB NUMBER: 1112-009-03
SHEET ID: Thoroughfare-Exhibit.dwg	

01

Dwg Info: G:\Projects\2011\2009 sachse\CAD\03.Thoroughfare_Study\dwg\thoroughfare-Exhibit.dwg - Plotted: 9/21/2012

City of Sachse Texas



N
W E
S

1250 625 0 1250 2500

SCALE : 1" = 2500'

Thoroughfare Legend

	Existing	Proposed	Upgrade
Principal Arterial			
Minor Arterial			
Collector			
Traffic Count Location			
Approximate Flood Plain			

TRAFFIC COUNT LOCATIONS

NO.	DATE	REVISIONS	COMMENT

INTERIM REVIEW
"THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW UNDER THE AUTHORITY OF MATTHEW D. LEE, P.E. 98451 ON Sep 21, 2012 . IT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES."

CobbFendley
Texas Registration No. 274
6801 Gaylord Parkway, Suite 302
Frisco, Texas 75034
972.335.3214 | fax 972.335.3202 | www.cobbfendley.com

CITY OF SACHSE
THOROUGHFARE STUDY
TRAFFIC COUNT EXHIBIT

DATE: JUL 2012	SCALE: 1"= 2500'
DESIGN BY: MDL	DRAWN BY: MDL
SHEET NO. 22 of 22	JOB NUMBER: 1112-009-03
SHEET ID: Thoroughfare-TrafficCountExhibit.dwg	

EX 6-2

Dwg Info: G:\Projects\2011\12008.sachse\CAD\03.thoroughfare_Study\dwg\Thoroughfare-TrafficCountExhibit.dwg - Plotted: 9/21/2012

EXHIBIT 7-1
City of Sachse Impact Fee Calculation
Impact Fee Derivation

WATER SYSTEM IMPACT FEE

$$\text{Maximum Impact Fee} = \frac{\text{Eligible Existing Project Costs Plus Eligible Proposed Project Costs}}{\text{Increase of Equivalent Dwelling Units Over Next 10 Years}}$$

$$= \frac{\$0.00 + \$\ 10{,}130{,}559.13}{1{,}406} = \frac{\$10{,}130{,}559.13}{1{,}406} = \$7{,}204.84$$

Maximum Allowable Impact Fee for Water Per EDU = $7,204.84 x 50% = $ 3,602.42

SANITARY SEWER SYSTEM IMPACT FEE

$$\text{Maximum Impact Fee} = \frac{\text{Eligible Existing Project Costs Plus Eligible Proposed Project Costs}}{\text{Increase of Equivalent Dwelling Units Over Next 10 Years}}$$

$$= \frac{\$0.00 + \$\ 5{,}224{,}088.32}{1{,}406} = \frac{\$\ 5{,}224{,}088.32}{1{,}406} = \$3{,}715.37$$

Maximum Allowable Impact Fee for Sanitary Sewer Per EDU = $3,715.37 x 50% = $ 1,857.68

ROADWAY SYSTEM IMPACT FEE

$$\text{Maximum Impact Fee} = \frac{\text{Eligible Existing Project Costs Plus Eligible Proposed Project Costs}}{\text{Increase in Vehicle Miles Over Next 10 Years}}$$

$$= \frac{\$0.00 + \$\ 16{,}596{,}117.37}{7{,}958} = \frac{\$\ 16{,}596{,}117.37}{7{,}958} = \$2{,}085.46$$

Maximum Allowable Impact Fee for Roadways Per Vehicle Mile = $2,085.46 x 50% = $ 1,042.73

Exhibit 7-2
City of Sachse
Roadway Impact Fee Schedule

Land Use Category	ITE Land Use Code	Development Unit	Trip Generation Rate (PM)	Pass-By Rate	Trip Length (Miles)	O-D Adjustment	Vehicle Mile Per Development Unit	2011 Actual Roadway Impact Fee Per Development Unit	
								% of Max	$ 1,042.73
PORT AND TERMINAL									
Truck Terminal	30	Acre	6.55		4.65	50%	15.23	50%	$ 15,880.78
INDUSTRIAL									
General Light Industrial	110	1,000 SF GFA	0.97		4.65	50%	2.26	50%	$ 2,356.57
General Heavy Industrial	120	1,000 SF GFA	0.19		4.65	50%	0.44	50%	$ 458.80
Industrial Park	130	1,000 SF GFA	0.86		4.65	50%	2.00	50%	$ 2,085.46
Warehousing	150	1,000 SF GFA	0.32		4.65	50%	0.74	50%	$ 771.62
Mini-Warehouse	151	1,000 SF GFA	0.26		4.65	50%	0.60	50%	$ 625.64
RESIDENTIAL									
Single-Family Detached Housing	210	Dwelling Unit	1.01		4.65	50%	2.35	50%	$ 2,450.42
Apartment / Multi-Family	220	Dwelling Unit	0.62		4.65	50%	1.44	50%	$ 1,501.53
Residential Condominium / Townhome	230	Dwelling Unit	0.52		4.65	50%	1.21	50%	$ 1,261.70
Mobile Home Park / Manufactured Housing	240	Dwelling Unit	0.59		4.65	50%	1.37	50%	$ 1,428.54
Senior Adult Housing-Detached	251	Dwelling Unit	0.27		4.65	50%	0.63	50%	$ 656.92
Senior Adult Housing-Attached	252	Dwelling Unit	0.16		4.65	50%	0.37	50%	$ 385.81
Assisted Living	254	Beds	0.22		4.65	50%	0.51	50%	$ 531.79
LODGING									
Hotel	310	Room	0.59		4.65	50%	1.37	50%	$ 1,428.54
Motel / Other Lodging Facilities	320	Room	0.47		4.65	50%	1.09	50%	$ 1,136.58
RECREATIONAL									
Golf Driving Range	432	Tee	1.25		4.65	50%	2.91	50%	$ 3,034.34
Golf Course	430	Acre	0.30		4.65	50%	0.70	50%	$ 729.91
Recreational Community Center	495	1,000 SF GFA	1.45		4.65	50%	3.37	50%	$ 3,514.00
Ice Skating Rink	465	Seats	0.12		4.65	50%	0.28	50%	$ 291.96
Miniature Golf Course	431	Hole	0.33		4.65	50%	0.77	50%	$ 802.90
Multiplex Movie Theater	445	Screens	13.64		4.65	50%	31.71	50%	$ 33,064.97
Racquet / Tennis Club	491	Court	3.35		4.65	50%	7.79	50%	$ 8,122.87
INSTITUTIONAL									
Church	560	1,000 SF GFA	0.55		4.65	50%	1.28	50%	$ 1,334.69
Day Care Center	565	1,000 SF GFA	12.46	20%	4.65	50%	23.18	50%	$ 24,170.48
Primary / Middle School (1-8)	522	Students	0.16		4.65	50%	0.37	50%	$ 385.81
High School	530	Students	0.13		4.65	50%	0.30	50%	$ 312.82
Junior / Community College	540	Students	0.12		4.65	50%	0.28	50%	$ 291.96
University / College	550	Students	0.21		4.65	50%	0.49	50%	$ 510.94
MEDICAL									
Clinic	630	1,000 SF GFA	5.18		4.65	50%	12.04	50%	$ 12,554.47
Hospital	610	Beds	1.31		4.65	50%	3.05	50%	$ 3,180.33
Nursing Home	620	Beds	0.22		4.65	50%	0.51	50%	$ 531.79
Animal Hospital / Veterinary Clinic	640	1,000 SF GFA	4.72	20%	4.65	50%	8.78	50%	$ 9,155.17
OFFICE									
Corporate Headquarters Building	714	1,000 SF GFA	1.40		4.65	50%	3.26	50%	$ 3,399.30
General Office Building	710	1,000 SF GFA	1.49		4.65	50%	3.46	50%	$ 3,607.85
Medical-Dental Office Building	720	1,000 SF GFA	3.46		4.65	50%	8.04	50%	$ 8,383.55
Single Tenant Office Building	715	1,000 SF GFA	1.73		4.65	50%	4.02	50%	$ 4,191.77
Office Park	750	1,000 SF GFA	1.48		4.65	50%	3.44	50%	$ 3,586.99
COMMERCIAL									
Automobile Related									
Automobile Care Center	942	1,000 SF Occ. GFA	3.38	40%	4.65	50%	4.72	50%	$ 4,921.69
Automobile Parts Sales	843	1,000 SF GFA	5.98	43%	4.65	50%	7.92	50%	$ 8,258.42
Gasoline / Service Station	944	Vehicle Fueling Position	13.78	42%	4.65	50%	18.58	50%	$ 19,373.92
Gasoline / Service Station w/ Conv Market	945	Vehicle Fueling Position	13.38	56%	4.65	50%	13.69	50%	$ 14,274.97
Gasoline / Service Station w/ Conv Market and Car Wash	946	Vehicle Fueling Position	13.94	56%	4.65	50%	14.26	50%	$ 14,869.33
New Car Sales	841	1,000 SF GFA	2.59	20%	4.65	50%	4.82	50%	$ 5,025.96
Quick Lubrication Vehicle Shop	941	Servicing Bays	5.19	50%	4.65	50%	6.03	50%	$ 6,287.66
Self-Service Car Wash	947	Stall	5.54	50%	4.65	50%	6.44	50%	$ 6,715.18
Tire Store	848	1,000 SF GFA	4.15	28%	4.65	50%	6.95	50%	$ 7,246.97
Dining									
Fast Food Restaurant with Drive-Thru Window	934	1,000 SF GFA	33.48	50%	4.65	50%	38.92	50%	$ 40,583.05
Fast Food Restaurant without Drive-Thru Window	933	1,000 SF GFA	26.15	50%	4.65	50%	30.40	50%	$ 31,698.99
High Turnover (Sit-Down) Restaurant	932	1,000 SF GFA	11.15	43%	4.65	50%	14.78	50%	$ 15,411.55
Quality Restaurant	931	1,000 SF GFA	7.49	44%	4.65	50%	9.75	50%	$ 10,166.62
Coffee / Donut Shop with Drive-Thru Window	937	1,000 SF GFA	42.93	50%	4.65	50%	49.91	50%	$ 52,042.65
Other Retail									
Free-Standing Retail Store	815	1,000 SF GFA	5.00	28%	4.65	50%	8.37	50%	$ 8,727.65
Nursery (Garden Center)	817	1,000 SF GFA	3.80	20%	4.65	50%	7.07	50%	$ 7,372.10
Home Improvement Superstore	862	1,000 SF GFA	2.37	48%	4.65	50%	2.87	50%	$ 2,992.64
Pharmacy / Drugstore w/o Drive-Thru Window	880	1,000 SF GFA	8.42	53%	4.65	50%	9.20	50%	$ 9,593.12
Pharmacy / Drugstore w/ Drive-Thru Window	881	1,000 SF GFA	10.35	49%	4.65	50%	12.27	50%	$ 12,794.30
Shopping Center	820	1,000 SF GFA	3.73	34%	4.65	50%	5.72	50%	$ 5,964.42
Supermarket	850	1,000 SF GFA	10.50	36%	4.65	50%	15.62	50%	$ 16,287.44
Toy / Children's Superstore	864	1,000 SF GFA	4.99	30%	4.65	50%	8.12	50%	$ 8,466.97
Department Store	875	1,000 SF GFA	1.78	30%	4.65	50%	2.90	50%	$ 3,023.92
Video Rental Store	896	1,000 SF GFA	13.60	50%	4.65	50%	15.81	50%	$ 16,485.56
SERVICES									
Walk-In Bank	911	1,000 SF GFA	12.13	40%	4.65	50%	16.92	50%	$ 17,642.99
Drive-In Bank	912	Drive-In Lanes	25.82	47%	4.65	50%	31.82	50%	$ 33,179.67
Hair Salon	918	1,000 SF GFA	1.45	20%	4.65	50%	2.70	50%	$ 2,815.37

*ITE Trip Generation rates based on the 2008 Trip Generation Manual

EXHIBIT 7-3
City of Sachse Roadway Impact Fees
Utilized Capacity Costs

Total Thoroughfare Cost	$	194,790,110.00
2011 Utilized Capacity Costs	$	129,106,884.91
2021 Utilized Capacity Costs	$	145,703,002.28
Difference	$	16,596,117.37
2011 Vehicle Miles	$	61,933.00
2021 Vehicle Miles	$	69,891.00
Vehicle-Mile Increase	$	7,958.00
Cost Per Vehicle Mile	$	2,085.46

ORDINANCE

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF SACHSE, TEXAS AMENDING THE CODE OF ORDINANCES BY AMENDING CHAPTER 8 "SUBDIVISION" BY AMENDING SECTION 8-21 "IMPACT FEES" BY UPDATING AND ADOPTING REVISED LAND USE ASSUMPTIONS, CAPITAL IMPROVEMENTS PLAN AND AMENDING THE IMPACT FEES FOR WATER, WASTEWATER AND ROADWAY FACILITIES; PROVIDING FOR LAND USE CATEGORIES; PROVIDING FOR SERVICE UNITS; AND BY AMENDING SECTION 8-22 TO PROVIDE FOR INSPECTIONS FEES TO BE PROVIDED IN THE CITY'S MASTER FEE SCHEDULE WHICH IS ADOPTED BY CITY COUNCIL RESOLUTION; PROVIDING A REPEALING CLAUSE; PROVIDING A SEVERABILITY CLAUSE; PROVIDING FOR A PENALTY NOT TO EXCEED TWO THOUSAND DOLLARS ($2,000.00) FOR EACH OFFENSE; AND PROVIDING AN EFFECTIVE DATE.

WHEREAS, the City Council of the City of Sachse previously adopted impact fees for water, wastewater and roadway facilities for the financing of capital improvements required by new development in the City; and

WHEREAS, the City Council contracted with Cobb, Fendley & Associates, Inc. to review and prepare an update to the land use assumptions and capital improvements plan upon which impact fees are based; and

WHEREAS, in accordance with state law, Cobb, Fendley & Associates, Inc., a qualified professional engineering firm, has completed such plan and submitted the same to the City Council for review and consideration; and;

WHEREAS, the City has provided notices and held public hearings in accordance with State law for the imposition of impact fees for the financing of capital improvements required by new development within the City and the required Advisory Committee has held the required public hearings; and

WHEREAS, the City Council finds that it is in the best interest of the City and its citizens to approve and adopt the Plan and the Impact Fees associated therewith.

NOW THEREFORE BE IT ORDAINED THAT THE CITY COUNCIL OF THE CITY OF SACHSE, COLLIN COUNTY, TEXAS:

SECTION 1. That Chapter 8 "Subdivision" of the City of Sachse Code of Ordinances is hereby amended by amending Section 8-21 "Impact fees" to read as follows:

"Chapter 8
SUBDIVISION

. . .

Sec. 8-21. Impact fees.

A. *Purpose.* This section is intended to assure the provision of adequate public facilities to serve new Development in the City by requiring each such Development to pay its share of the costs of such improvements necessitated by and attributable to such new Development.

B. *Definitions.* For purposes of this section, the following words and phrases shall have the meanings respectively ascribed to them by this subsection:

Advisory committee. The members of the planning and zoning commission, and the representatives appointed by the City Council as required by the state law.

Assessment. The determination of the amount of the maximum impact fee which can be imposed on new development pursuant to this section.

Capital improvement. Any of the following facilities that have a life expectancy of three or more years and are owned and operated by or on behalf of the City:

(1) Water supply, treatment, and distribution facilities; wastewater collection and treatment facilities; and storm water, drainage, flood control facilities as they relate to the construction of roadway facilities, whether or not they are located within the service area; and

(2) Roadway facilities.

Capital Improvements Plan. A plan contemplated by this section that identifies capital improvements or facility expansions for which impact fee may be assessed, adopted by the City from time to time, and on file in the City secretary's office.

City. The City of Sachse, Texas.

Credit. The amount of the reduction of an impact fee for fees, payments, or charges for or construction of the same type of facility.

Facility Expansion. The expansion of the capacity of an existing facility that serves the same function as an otherwise necessary new capital improvement in order that the existing facility may serve new development. The term does not include the repair, maintenance, modernization, or expansion of an existing facility to better serve existing development.

Final plat approval or *approval of a final plat.* The point at which the applicant has complied with all conditions of approval and the plat has been released for filing with the county clerk.

Impact Fee. A charge or assessment imposed as set forth in this section against new development. The term does not include:

(1) Required dedications of land for public parks or payments in lieu thereof;

(2) Dedication of rights-of-way or easements or construction or dedication of on-site or off-site water distribution, wastewater collection or drainage facilities, or streets, sidewalks, or curbs, if the dedication or construction is required by a valid ordinance and is necessitated by and attributable to the new development;

(3) Lot or acreage fees, or Pro Rata fees, to be placed in trust funds for the purpose of reimbursing Developers for over-sizing or constructing water or wastewater mains or lines; or

(4) Other Pro Rata fees for reimbursement of water or wastewater mains or lines extended by the City.

Land use assumptions. A description of the service area and projections of changes in land uses, densities, intensities, and population and employment growth in the service area over at least a ten-year period, and adopted by the City, as may be amended from time to time, upon which the capital improvements plans are based, adopted by the City from time to time, and on file in the City secretary's office.

New development. A project involving the construction, reconstruction, redevelopment, conversion, structural alteration, relocation or enlargement of any structure, or any use or extension of the use of land, any of which has the effect of increasing the requirements for capital improvements or facility expansions, measured by the number of service units to be generated by such activity, and which requires either the approval of a plat pursuant to the City's Subdivision regulations, the issuance of a building permit or connection to the City's water or wastewater system, and which has not been exempted from these regulations by provisions of this section. Installation of a larger water meter will constitute new development.

Off-site. A facility or expansion that is not a site-related facility, as defined herein. Located entirely on property which is not included within the bounds of the plat being considered for impact fee assessment.

On-site. An improvement or facility which is for the primary use or benefit of a new development and/or which is for the primary purpose of safe and adequate provision of water and wastewater facilities to serve the new development and which is not included in the impact fee capital improvements plan and for which the Developer or Property Owner is solely responsible under Subdivision and other applicable regulations.

Roadway facilities. Arterial or collector streets or roads that have been designated on the City's officially adopted roadway plan, together with all necessary appurtenances. The term includes, but is not limited to, the City's share of costs for roadways and associated improvements designated on the federal or Texas highway system, including, but not limited to,

local matching funds and costs related to utility line relocation and the establishment of curbs, gutters, sidewalks and drainage appurtenances. The term also includes but is not limited to interests in land, traffic lanes, curbs, gutters, intersection improvements, traffic control devices, turn lanes, drainage facilities associated with the roadway or street lighting.

Service area. The area within the City and/or the City's extraterritorial jurisdiction, as identified in the land use assumptions, to be served by the capital improvements or facilities expansions specified in the capital improvements plan, for roadway facilities service area means any one of the individual services areas within the City's corporate boundaries as identified in the land use assumptions and the capital improvements plan.

Service unit. The standardized measure of consumption, use, generation or discharge attributable to an individual unit of development, that had been calculated in accordance with generally accepted engineering and/or planning standards, as indicated in the land use equivalency tables located in the "2011-2021 Capital Improvements Plan & Impact Fee Analysis for Water, Sanitary Sewer and Thoroughfares", which is attached hereto as Exhibit "D" and incorporated by reference herein, as may be amended from time to time.

Sanitary sewer facility. An improvement for providing wastewater collection, including, but not limited to, land or easements, lift stations, or interceptor mains. Sanitary sewer facility excludes sanitary sewer lines or mains which are reimbursed from Pro Rata charges paid by Developers or Owners of property in other Subdivisions as a condition of connection to or use of such facility.

Site-related facility or *on-site.* An improvement or facility which is for the primary use or benefit of a new development and/or which is the for the primary purpose of safe and adequate provision of water and wastewater facilities to serve the new development and which is not included in the impact fee capital improvements plan and for which the Property Owner is solely responsible under Subdivision and other applicable regulations, or which is located at least partially on the plat which is being considered for impact fee assessment. Site-related facility includes that portion of an off-site water or wastewater main, equivalent to a standard size water or wastewater main, which is necessary to connect any new development with the City's water or wastewater system, the cost of which has not been included in the City's impact fee capital improvements plan.

Water facility. A water interceptor or main, pump station, storage tank or other facility or improvement used for providing water supply, treatment and distribution service included within the City's water storage or distribution system. Water facility includes, but is not limited to, land, easements or structures associated with such facilities. Water facility excludes a site-related facility.

Utility connection. A connection of an individual meter to the City's water or wastewater system, or an increase in the size of an existing meter.

Wastewater facility. A wastewater interceptor or main, lift station or other facility or improvement used for providing wastewater collection and treatment included within the City's

collection system for wastewater. Wastewater facility includes, but is not limited to, land, easements or structures associated with such facilities. Wastewater facility excludes a site-related facility.

Water meter. A device for measuring the flow of water to a development, whether for domestic or for irrigation purposes.

C. *Advisory committee.*

(1) The advisory committee shall consist of the planning and zoning commission. If the committee does not include at least one representative of the real estate, development or building industry who is not an employee or official of a political Subdivision or governmental entity, the City Council shall appoint at least one such representative as an ad hoc voting member of the advisory committee. If any impact fee is to be applied in the extraterritorial jurisdiction of the City, a representative from that area shall be appointed by the City Council.

(2) The advisory committee serves in an advisory capacity and is established to:

(a) Advise and assist the adoption of land use assumptions;
(b) Review the capital improvements plan and file written comments;
(c) Monitor and evaluate implementation of the capital improvements plan;
(d) File semi-annual reports with respect to the progress of the capital improvements plan and report to the City Council any perceived inequities in implementing the plan or imposing the impact fee; and
(e) Advise the City Staff and council of the need to update or revise the land use assumptions, capital improvements plan, and impact fee.

(3) All professional reports concerning the development and implementation of the capital improvements plan shall be made available to the advisory committee.

(4) The advisory committee shall elect a chairperson to preside at its meetings and a vice-chairperson to serve in his or her absence. All meetings of the committee shall be open to the public and posted at least 72 hours in advance. A majority of the membership of the committee shall constitute a quorum.

(5) In the event of any conflict between this subsection 8-6(c) and applicable state law, state law shall control.

D. *Periodic updates required.*

(1) The City shall update the land use assumptions and capital improvements plan upon which impact fees are based at least every five years, beginning with the date of adoption of such plans, and shall recalculate the impact fees based thereon in accordance with provisions set forth in Chapter 395, Texas Local Government Code, or any successor statute.

(2) The City may review its land use assumptions, impact fees, capital improvements plans and other factors, such as market conditions, more frequently than provided in subsection (1) above to determine whether the land use assumptions and capital improvements plan should be updated and the impact fee recalculated accordingly.

(3) If, at the time an update is required pursuant to subsection (1) above, the City Council determines that no change to the land use assumptions, capital improvements plan or impact fee is needed, it may dispense with such update by following the procedures in Local Government Code, Section 395.0575, or its successor statute.

E. *Impact fee as a condition of development approval/permit issuance.* No final plat for new development shall be released for filing with the appropriate county, nor may any new development be connected to the City's water or wastewater system, nor may an application of a utility connection be approved, without assessment of an impact fee pursuant to this section. No building permit shall be issued or utility connection made for new development until the Property Owner has paid the impact fee imposed herein.

F. *Assessment of impact fees.*

(1) For land which is un-platted at the time of application for a building permit or utility connection, or for a new development which received final plat approval prior to the effective date of this article, and for which no re-platting is necessary pursuant to the City's Subdivision regulations prior to development, assessment of impact fees shall occur at the time application is made for the building permit or utility connection, whichever first occurs, and shall be the amount of the maximum impact fee per service unit in effect, as set forth in Exhibits A, B and C, attached hereto and made part hereof for all purposes.

(2) For a new development which is submitted for approval pursuant to the City's Subdivision regulations on or after the effective date of this section, or for which re-platting results in an increase in the number of service units after such date, assessment of impact fees shall be at the time of final plat recordation, and shall be the amount of the maximum impact fee per service unit in effect as set forth in Exhibits A, B and C.

(3) Following the initial assessment of impact fees for new development pursuant to subsection (1) above, the amount of impact fee assessment per service unit for that development cannot be increased, unless the Owner proposes to change the approved development by the submission of a new application for final plat approval or other development application that results in approval of additional service units, in which case the impact fee will be reassessed for the increased meter size or additional meters or service units at the impact fee rate then in effect.

(4) Following the vacating of any plat or approval of any re-plat, a new assessment must be made in accordance with subsection (1) above.

(5) An application for an amending plat made pursuant to V.T.C.A. Texas Local Government Code, § 212.016 and the City Subdivision ordinance, and for which no new development is proposed, is not subject to reassessment for an impact fee.

(6) Except for roadway facilities, impact fees may be assessed but not collected for property where service is not available unless:

(a) The City commits to commence construction of necessary facilities identified in the capital improvements plan within two years and have service available in a reasonable time not exceeding five years; or

(b) The City agrees in writing to permit the Owner of the property to construct or finance the required capital improvement or facility expansion and agrees that the costs incurred or funds advanced will either:

(i) Be credited against the impact fees otherwise due from the new development;

(ii) Reimburse the Owner for such costs from impact fees paid from other new developments that will use such capital improvements or facility expansions in which case fees shall be reimbursed to the Owner at the time collected as other new development plats are recorded; or

(iii) The Owner voluntarily requests that the City reserve capacity to serve future development and the City and the Owner enter into agreement.

(7) Church facilities for the worship of a Supreme Being, and related religious training shall be exempt from the assessment of impact fees. These facilities shall include auditorium type buildings where worship services are conducted and class room type buildings in which the primary purpose of the room is for religious instruction. The definition of church facility shall exclude church-related schools, day care/child care functions, gymnasium, and other recreational facilities.

(8) Assessment of water or wastewater impact fees may be deferred for developments in the City which are not planned to connect to the City's water system or wastewater system due to the unavailability of the water or wastewater lines. These impact fees will be imposed on the Property Owner at the prevailing rates in the event of a subsequent connection to the City services.

G. *Calculation of impact fees.*

(1) Impact fees shall be determined by multiplying the number of service unit equivalents in the proposed development by the amount per service unit equivalent due under Exhibits A, B and C.

(2) The determination of impact fees shall be reduced by any allowable credits for the category of capital improvements as provided in this section.

(3) The total amount of unpaid impact fees shall be attached to the development application, or if to be paid at some later date, to the request for other permit or connection.

(4) Re-platting shall not require recalculation of impact fees unless the number of service units is increased or land uses change. If a proposed development increases the number of service units, the impact fee shall be recalculated as provided in this section.

H. *Calculation and collection of impact fees.*

(1) Impact fees for new development shall be collected at the time the City issues a building permit, or if a building permit is not required, at the time an application is filed for a new connection, to the City's water or wastewater system, or for an increase in water meter size, unless an agreement between the Property Owner and the City has been executed providing for a different time of payment.

(2) At the time of final plat approval, or the request for a utility connection for an area in the City's extraterritorial jurisdiction for which a final plat was not submitted to the City, for all new developments, the City shall compute the impact fees due for the new development in the following manner:

(a) The amount of each type of impact fee due (roadway, water, and/or wastewater) shall be determined by multiplying the number of each type of service units generated by the new development by the impact fee due for each type of service unit as set forth in Exhibits A, B and C respectively.

(b) The amount of each impact fee due shall be reduced by any allowable credits for that category of capital improvements in the manner provided by this section.

(3) Whenever a Property Owner proposes to increase the number of service units for a new development, the additional impact fees collected for such new service units shall be determined by using the amount of impact fee per service unit in Exhibits A, B and C, then in effect, and such additional fee shall be collected at the time of issuance of a new building permit, or for an area in the City's extraterritorial jurisdiction for which a final plat was not required to be submitted to the City, prior to or at the time of enlargement of the connection to the City's water or wastewater system.

I. *Credits.*

(1) Any construction of, contributions to, or dedications of any facility appearing in the capital improvements plan that is required by the City to be constructed by the Owner as a condition of development shall be credited against the impact fees otherwise due from the same category (roadway, water or wastewater) of impact fees assessed on the development.

(2) The amount of each credit for required construction of a facility in the capital improvements plan shall be calculated by multiplying the value of the facility assessed for the capital improvements plan by a fraction, the numerator of which is the impact fee per service unit equivalent due for the new development computed using the denominator of which is the maximum impact fee per service unit computed using the capital improvements plan.

(3) All credits against impact fees shall be subject to the following limitations and shall be granted based on this section and any additional administrative guidelines that may be adopted by the City.

(a) No credit shall be given for the dedication or construction of site-related facilities.
(b) No credit shall exceed an amount equal to the assessed impact fee.
(c) If a credit applicable to a final plat has not been exhausted within ten years, from the acquisition of the first building permit issued or utility connection made, after the effective date of the adoption of the applicable impact fees, or within such period as may otherwise be designated by contract, such credit shall lapse.
(d) In no event will the City reimburse the Property Owner or Developer for a credit when impact fees for the new development can be collected pursuant to this section or for any amount exceeding the total impact fees collected or due for the new development for the category of capital improvement, unless otherwise agreed to by the City.

(4) The available credit associated with new development shall be applied against an impact fee in the following manner:

(a) For single-family residential lots in a new development consisting only of single-family residential development, such credit shall be prorated equally among such lots, to be applied at the time of application of a building permit for each lot, against impact fees to be collected at the time the building permit is issued.
(b) For all other types of new development, including those involving mixed uses, the credit applicable to the new development shall be applied to the impact fee due at the time of approval.

(c) At its sole discretion, the City may authorize alternative credit agreements upon written agreement with the Property Owner in accordance with the City's administrative guidelines.

J. *Establishment of accounts.*

(1) All impact fees collected shall be deposited in interest bearing accounts clearly identifying the category of capital improvements or facility expansions within the service area for which the fee is collected.

(2) Interest earned on the account into which the impact fees are deposited, shall be considered funds of the account and shall be used only in the same manner as which the underlying funds may be used.

(3) Impact fees and the interest earned thereon may be spent only for the purposes for which such fees were imposed as shown in the capital improvements plan.

(4) The records of the accounts into which impact fees are deposited shall be open for public inspection and copying during ordinary business hours.

K. *Use of proceeds of impact fee accounts.*

(1) The impact fees collected for each service area may be used to finance or to recoup the costs of any capital improvements or facility expansion identified in the capital improvements plan for the service area, including but not limited to the construction contract price, surveying and engineering fees, land acquisition costs (including land purchases, court awards and costs, attorney's fees and expert witness fees). Impact fees may also be used to pay the principal sum and interest and other finance costs on bonds, notes or other obligations issued by or on behalf of the City to finance such capital improvements or facility expansion.

(2) Impact fees collected pursuant to this section shall not be used to pay for any of the following expenses:

(a) Construction, acquisition or expansion of public facilities or assets other than capital improvements or facility expansions identified in the capital improvements plan;
(b) Repair, operation or maintenance of existing or new capital improvements or facility expansions;
(c) Upgrade, update, expansion or replacement of existing capital improvements to provide better service to existing development; or
(d) Administrative and operating costs of the City.

L. *Refunds.*

(1) Upon application by an Owner of property, any impact fee or portion thereof collected pursuant to City ordinance, which: (i) has not been expended within the service area within ten years from the date of payment, or (ii) existing facilities are available and service is denied, or (iii) the City has, after collecting the impact fee when service was not available, failed to commence construction within two years or service is not available within a reasonable period considering the type of improvement or expansion, but in no event later than five years from the date of payment, shall be refunded to the record Owner of the property for which the impact fee was paid or, if the impact fee was paid by another governmental entity, to such governmental entity, together with interest calculated from the date of payment to the date of refund at the statutory rate set forth in the Texas Finance Code, § 302.002, or its successor statute. The application for refund pursuant to this section shall be submitted within 60 days after the expiration of the ten-year period for expenditure of the fee. An impact fee shall be considered expended on a first-in, first-out basis.

(2) An impact fee collected pursuant to this section shall also be considered expended if the total expenditures for capital improvements or facilities expansion within the service area within ten years following the date of payment exceed the total fees collected within the service area for such improvements or facilities expansion during such period.

(3) If a refund is due pursuant to subsection (1) above, the City shall divide the difference between the amount of expenditures and the amount of the fees collected by the total number of service units assumed within the service area for the period to determine the refund due per service unit. The refund to the record Owner shall be calculated by multiplying the refund due per service unit by the number of service units for the development for which the fee was paid, and interest due shall be calculated upon that amount.

(4) Upon completion of all the capital improvements or facility expansions identified in the capital improvements plan for the service area, the City shall recalculate the impact fee per service unit using the actual costs for the improvements or facilities expansions. If the impact fee per service unit based on actual cost is less than the impact fee per service unit paid, the City shall refund the difference, if such difference exceeds the impact fee paid by more than ten percent. If the difference is less than ten percent, no refund shall be due. The refund to the record Owner shall be calculated by multiplying such difference by the number of service units for the development for which the fee was paid, and interest due shall be calculated upon that amount.

M. *Appeals.*

(1) The Property Owner or applicant for new development may appeal the following decisions to the City Council: (a) the applicability of an impact fee to the new development; (b) the method of calculating the amount of the impact fee due; (c)

the availability or the amount of an offset, credit or rebate; (d) the application of an offset or credit against an impact fee due; or (e) the amount of a refund due, if any.

(2) The burden of proof shall be on the appellant to demonstrate that the amount of the fee or the amount of the offset credit or rebate was not calculated according to the provisions of this article.

(3) The appellant must file a notice of appeal with the City secretary within 30 days following the determination of the amount of the impact fees to be paid by the development. If the notice of appeal is accompanied by a bond or other sufficient surety satisfactory to the City attorney in an amount equal to the original determination of the impact fee due, the development application may be processed while the appeal is pending.

N. *Use of other financing mechanisms.*

(1) The City may finance capital improvements or facilities expansions designated in the capital improvements plan through the issuance of bonds, through the formation of public utility districts or other assessment districts, or through any other authorized mechanism, in such manner and subject to such limitations as may be provided by law, in addition to the use of impact fees.

(2) Except as herein otherwise provided, the assessment and collection of an impact fee shall be additional and supplemental to, and not in substitution of, any other tax, fee, charge or assessment which is lawfully imposed on and due against the property.

O. *Impact fees as additional and supplemental regulations.* Impact fees established by this section are additional and supplemental to, and not in substitution of, any other requirements imposed by the City on the development of land or the issuance of building permits or certificates of occupancy. Such fees are intended to be consistent with and to further the policies of the City's comprehensive land use plan, the capital improvements plan, the zoning ordinance, Subdivision regulations and other City policies, ordinances, codes and resolutions by which the City seeks to ensure the provision of adequate public facilities in conjunction with the development of land.

Exhibit "A"
Maximum Roadway Impact Fees
(page 1 of 3)

LAND USE CATEGORY	DEVELOPMENT UNIT	MAXIMUM IMPACT FEE	ADOPTED IMPACT FEE (100%)
Port and Terminal			
Truck Terminal	Acre	$ 15,880.78	$ 15,880.78
Industrial			
General Light Industrial	1,000 SF GFA	$ 2,356.57	$ 2,356.57
General Heavy Industrial	1,000 SF GFA	$ 458.80	$ 458.80
Industrial Park	1,000 SF GFA	$ 2,085.46	$ 2,085.46
Warehousing	1,000 SF GFA	$ 771.62	$ 771.62
Mini-Warehouse	1,000 SF GFA	$ 625.64	$ 625.64
Residential			
Single-Family Detached Housing	Dwelling Unit	$ 2,450.42	$ 2,450.42
Apartment / Multi-Family	Dwelling Unit	$ 1,501.53	$ 1,501.53
Residential Condominium / Townhome	Dwelling Unit	$ 1,261.70	$ 1,261.70
Mobile Home Park / Manufactured Housing	Dwelling Unit	$ 1,428.54	$ 1,428.54
Senior Adult Housing-Detached	Dwelling Unit	$ 656.92	$ 656.92
Senior Adult Housing-Attached	Dwelling Unit	$ 385.81	$ 385.81
Assisted Living	Beds	$ 531.79	$ 531.79
Lodging			
Hotel	Room	$ 1,428.54	$ 1,428.54
Motel / Other Lodging Facilities	Room	$ 1,136.58	$ 1,136.58
Recreational			
Golf Driving Range	Tee	$ 3,034.34	$ 3,034.34
Golf Course	Acre	$ 729.91	$ 729.91
Recreational Community Center	1,000 SF GFA	$ 3,514.00	$ 3,514.00
Ice Skating Rink	Seats	$ 291.96	$ 291.96
Miniature Golf Course	Hole	$ 802.90	$ 802.90
Multiplex Movie Theater	Screens	$ 33,064.97	$ 33,064.97
Racquet / Tennis Club	Court	$ 8,122.87	$ 8,122.87
Institutional			
Church	1,000 SF GFA	$ 1,334.69	$ 1,334.69
Day Care Center	1,000 SF GFA	$ 30,207.89	$ 24,170.48
Primary / Middle School (1-8)	Students	$ 385.81	$ 385.81
High School	Students	$ 312.82	$ 312.82
Junior / Community College	Students	$ 291.96	$ 291.96
University / College	Students	$ 510.94	$ 510.94

Exhibit "A"
Maximum Roadway Impact Fees
(page 2 of 3)

LAND USE CATEGORY	DEVELOPMENT UNIT	MAXIMUM IMPACT FEE	ADOPTED IMPACT FEE (100%)
Medical			
Clinic	1,000 SF GFA	$ 12,554.47	$ 12,554.47
Hospital	Beds	$ 3,180.33	$ 3,180.33
Nursing Home	Beds	$ 531.79	$ 531.79
Animal Hospital / Veterinary Clinic	1,000 SF GFA	$ 11,438.75	$ 9,155.17
Office			
Corporate Headquarters Building	1,000 SF GFA	$ 3,399.30	$ 3,399.30
General Office Building	1,000 SF GFA	$ 3,607.85	$ 3,607.85
Medical-Dental Office Building	1,000 SF GFA	$ 8,383.55	$ 8,383.55
Single Tenant Office Building	1,000 SF GFA	$ 4,191.77	$ 4,191.77
Office Park	1,000 SF GFA	$ 3,586.99	$ 3,586.99
Commercial – Automobile Related			
Automobile Care Center	1,000 SF Occ. GFA	$ 8,195.86	$ 4,921.69
Automobile Parts Sales	1,000 SF GFA	$ 6,235.53	$ 8,258.42
Gasoline / Service Station	Vehicle Fueling Position	$ 14,035.15	$ 19,373.92
Gasoline / Service Station w/ Conv Market	Vehicle Fueling Position	$ 18,164.36	$ 14,274.97
Gasoline / Service Station w/ Conv Market and Car Wash	Vehicle Fueling Position	$ 33,794.88	$ 14,869.33
New Car Sales	1,000 SF GFA	$ 6,277.23	$ 5,025.96
Quick Lubrication Vehicle Shop	Servicing Bays	$ 12,585.75	$ 6,287.66
Self-Service Car Wash	Stall	$ 13,430.36	$ 6,715.18
Tire Store	1,000 SF GFA	$ 2,815.37	$ 7,246.97
Commercial – Dining			
Fast Food Restaurant with Drive-Thru Window	1,000 SF GFA	$ 40,583.05	$ 40,583.05
Fast Food Restaurant without Drive-Thru Window	1,000 SF GFA	$ 63,397.98	$ 31,698.99
High Turnover (Sit-Down) Restaurant	1,000 SF GFA	$ 11,626.44	$ 15,411.55
Quality Restaurant	1,000 SF GFA	$ 7,987.31	$ 10,166.62
Coffee / Donut Shop with Drive-Thru Window	1,000 SF GFA	$ 104,074.88	$ 52,042.65

Exhibit "A"
Maximum Roadway Impact Fees
(page 3 of 3)

LAND USE CATEGORY	DEVELOPMENT UNIT	MAXIMUM IMPACT FEE	ADOPTED IMPACT FEE (100%)
Commercial – Other Retail			
Free-Standing Retail Store	1,000 SF GFA	$ 2,064.61	$ 8,727.65
Nursery (Garden Center)	1,000 SF GFA	$ 9,217.73	$ 7,372.10
Home Improvement Superstore	1,000 SF GFA	$ 2,752.81	$ 2,992.64
Pharmacy / Drugstore w/o Drive-Thru Window	1,000 SF GFA	$ 10,823.54	$ 9,593.12
Pharmacy / Drugstore w/ Drive-Thru Window	1,000 SF GFA	$ 12,293.79	$ 12,794.30
Shopping Center	1,000 SF GFA	$ 3,076.05	$ 5,964.42
Supermarket	1,000 SF GFA	$ 9,165.60	$ 16,287.44
Toy / Children's Superstore	1,000 SF GFA	$ 12,095.67	$ 8,466.97
Department Store	1,000 SF GFA	$ 4,316.90	$ 3,023.92
Video Rental Store	1,000 SF GFA	$ 32,971.12	$ 16,485.56
Services			
Walk-In Bank	1,000 SF GFA	$ 29,404.99	$ 17,642.99
Drive-In Bank	Drive-In Lanes	$ 29,415.41	$ 33,179.67
Hair Salon	1,000 SF GFA	$ 3,514.00	$ 2,815.37

Exhibit "B"
Water Impact Fee

Meter Type	Meter Size	Ratio to 5/8" Meter (Equiv # of EDU's)	Maximum Impact Fee	Adopted Impact Fee (70%)
Simple	5/8" x 3/4"	1.0	$3,602.42	$2,521.69
Simple–Residential	3/4"	1.0	$3,602.42	$2,521.69
Simple-Commercial	3/4"	1.5	$5,403.63	$3,782.54
Simple	1"	2.5	$9,006.06	$6,304.24
Simple	1 1/2"	5.0	$18,012.11	$12,608.48
Simple	2"	8.0	$28,819.38	$20,173.57
Compound	2"	8.0	$28,819.38	$20,173.57
Turbine	2"	10.0	$36,024.22	$25,216.95
Compound	3:	16.0	$57,638.76	$40,347.13
Turbine	3"	24.0	$86,458.14	$60,520.70
Compound	4"	25.0	$90,060.56	$63,042.39
Turbine	4"	42.0	$151,301.74	$105,911.22
Compound	6"	50.0	$180,121.12	$126,084.78
Turbine	6"	92.0	$331,422.85	$231,996.00
Compound	8"	80.0	$288,193.79	$201,735.65
Turbine	8"	160.0	$576,387.57	$403,471.30
Compound	10"	115.0	$414,278.57	$289,995.00
Turbine	10"	250.0	$900,605.58	$630,423.91
Turbine	12"	330.0	$1,188,799.37	$832,159.56

Exhibit "C"
Maximum Impact Fee per ⅝ Inch Meter Equivalent - Wastewater

Meter Type	Meter Size	Ratio to 5/8" Meter (Equiv # of EDU's)	Maximum Impact Fee	Adopted Impact Fee (100%)
Simple	5/8" x 3/4"	1.0	$1,857.68	$1,857.68
Simple–Residential	3/4"	1.0	$1,857.68	$1,857.68
Simple-Commercial	3/4"	1.5	$2,786.53	$2,786.53
Simple	1"	2.5	$4,644.21	$4,644.21
Simple	1 1/2"	5.0	$9,288.42	$9,288.42
Simple	2"	8.0	$14,861.47	$14,861.47
Compound	2"	8.0	$14,861.47	$14,861.47
Turbine	2"	10.0	$18,576.83	$18,576.83
Compound	3:	16.0	$29,722.94	$29,722.94
Turbine	3"	24.0	$44,584.40	$44,584.40
Compound	4"	25.0	$46,442.09	$46,442.09
Turbine	4"	42.0	$78,022.71	$78,022.71
Compound	6"	50.0	$92,884.17	$92,884.17
Turbine	6"	92.0	$170,906.88	$170,906.88
Compound	8"	80.0	$148,614.68	$148,614.68
Turbine	8"	160.0	$297,229.36	$297,229.36
Compound	10"	115.0	$213,633.60	$213,633.60
Turbine	10"	250.0	$464,420.87	$464,420.87
Turbine	12"	330.0	$613,035.55	$613,035.55

"

SECTION 2. That Chapter 8 "Subdivision" of the City of Sachse Code of ordinances is hereby amended by amending Section 8-22 "Inspection Fees" to read as follows:

"Sec. 8-22. Inspection Fees.

A. Each plat applicant shall pay to the City an inspection fee equal to set proportion of the estimated cost of public improvements in and adjacent to the requested plat. The Inspection Fee shall be in accordance with the City of Sachse Master Fee Schedule established by resolution of the City Council. Public improvements include, but are not limited to, water, sewer, streets, and drainage. The determination of the inspection fee shall be based upon contracts provided by the applicant to estimate the construction costs of public improvements. The fee shall be paid before the release of engineering plans and/or site plans."

SECTION 3. If any section, paragraph, subdivision, clause, phrase or provision of this ordinance shall be judged invalid or unconstitutional, the same shall not affect the validity of this ordinance as a whole or any portion thereof other than that portion so decided to be invalid or unconstitutional.

SECTION 4. All ordinances and provisions of the City of Sachse, Texas, that are in conflict with this Ordinance shall be repealed and the same hereby repealed, and all ordinances and provisions of ordinances of said City is not so repealed are hereby retained in full force and effect.

SECTION 5. That 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 Ordinances of the City of Sachse, as heretofore 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 as the law in such case provides.

DULY APPROVED AND PASSED by the City Council of the City of Sachse, Texas on the _____ day of_____, 2012.

APPROVED:

_____
Mike Felix
Mayor

DULY ENROLLED:

_____
Terry Smith
City Secretary

APPROVED AS TO FORM:

_____
Peter G. Smith, City Attorney
(PGS/09-12-12/57227)

CITY COUNCIL

Updates and amendments to water, sanitary sewer, & roadway impact fees

NOVEMBER 5, 2012

Outline

- Background/Review
  - Role of Impact Fee Advisory Council (IFAC)
  - What are impact fees?
  - Why update impact fees?
- Timeline
- Maximum Impact Fee Determination
  - Water
  - Sanitary Sewer
  - Roadway
- Discuss Recommended Impact Fee

Background

Role of Impact Fee Advisory Committee

- Advise and assist the political subdivision in adopting land use assumptions;
- Review the capital improvements plan and file written comments;
- Monitor and evaluate implementation of the capital improvements plan;
- File semiannual reports with respect to the progress of the capital improvements plan and report to the political subdivision any perceived inequities in implementing the plan or imposing the impact fee; and
- Advise the political subdivision of the need to update or revise the land use assumptions, capital improvements plan, and impact fee.

Background

What Are Impact Fees?

- Way of financing off-site improvements for new development
- Strict rules in regulations dictated by Texas Local Government Code
- Substantial case law/precedence

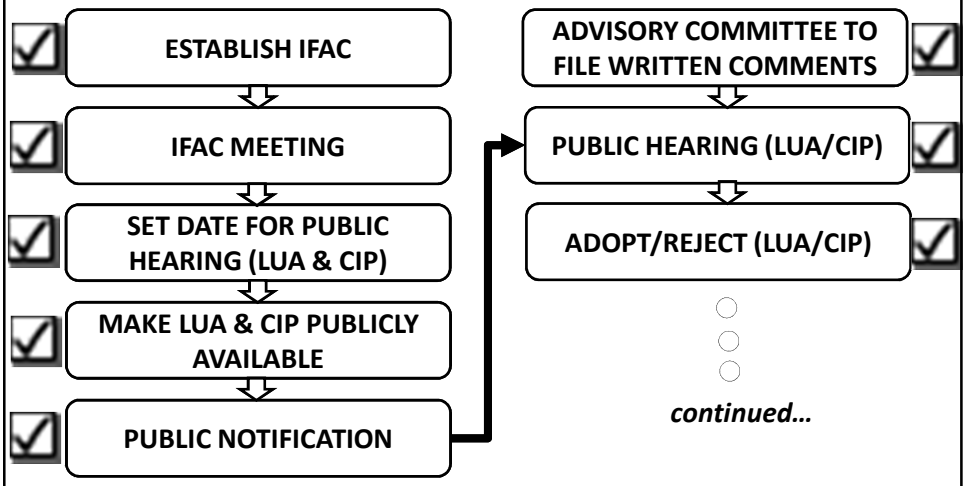
Background

Why Update Impact Fees?

- State Law Requirement (*§395 Texas Local Government Code*)
- To mitigate the impacts of development on public facilities

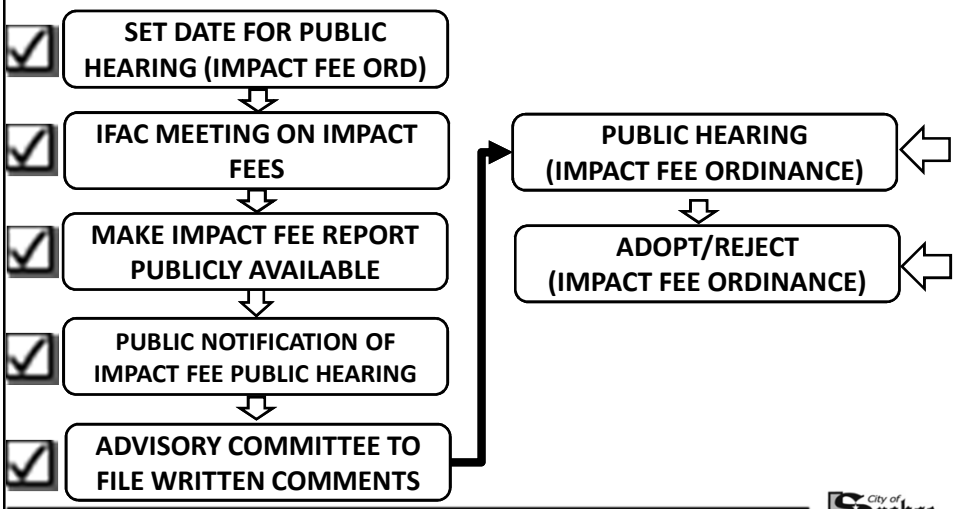
Policy Considerations

Timeline (LUA/CIP)



Policy Considerations

Timeline (Impact Fee Ordinance)



Maximum Impact Fee Determination

- Information used in analysis
  - Current Demographics (e.g., population)
  - Land Use Assumptions
  - 10-year Capital Improvement Plan
  - Population Projections (NCTCOG)
- Determine Water & Sanitary Sewer Measurement (Equivalent Dwelling Unit (EDU))
  - EDU related to water meter size
- Roadway Analysis Measurement (vehicle mile per development)
  - Based on Land Use Category and Trip Generation from ITE
- Projected Water, Sanitary Sewer, and Roadway Demands

Maximum Impact Fee Determination

- Components of Total Project Cost
  - Estimated Construction Cost
  - Bonding costs (6%)
  - Interest costs (3.5%)
- Prorated Project Cost
  - Determine Current Demand
  - Determine Anticipated Demand for 2021
  - Compare the difference
- Sanitary Sewer Example

Sanitary Sewer Example

TABLE 7-7
City of Sachse Sanitary Sewer Impact Fees
Sanitary Sewer Impact Fee Allocation

Priority	Project Description	Qty (length)	Units	Qty	Total Project Cost (with Financing)	Percentage of Capacity Utilized			2021 Prorated Value
						2011	2021	Difference	
1	Rehab of existing Merritt Road lift station & existing Sachse Road lift station. (Increase pump size to accommodate increased flows for future development)	n/a	UNIT	1	$ 1,637,620.00	72.07%	83.85%	11.79%	$ 193,075.40
2	Line "G" - Future aerial crossing for 24" trunk line and meter station to Garland.	n/a	UNIT	1	$ 806,360.00	0.00%	31.17%	31.17%	$ 251,342.41
3	Future lift station in southeast Sachse.	n/a	UNIT	1	$ 1,672,170.00	58.19%	67.41%	9.23%	$ 154,341.29
4	Line "A" - Future 24" trunk line from Sachse Road to southeast lift station.	10,700	LF	n/a	$ 3,882,310.00	52.95%	53.45%	0.50%	$ 19,411.55
5	Line "G" - Future 24" trunk line from Garland interceptor line northward under George Bush Turnpike and eastward along north side of George Bush Turnpike.	4,000	LF	n/a	$ 1,451,380.00	0.00%	31.17%	31.17%	$ 452,395.15
6	Future 20" force main from future southeast lift station westward along creek and north side of George Bush Turnpike.	10,000	LF	n/a	$ 3,063,950.00	55.23%	57.68%	2.45%	$ 75,066.78
7	Line "B" - Future 10" trunk line from Lift Station north westward along creek to Willow Lake.	4,100	LF	n/a	$ 661,180.00	98.77%	99.15%	0.38%	$ 2,512.48
8	Future 8" branch lines connecting to Line "A" - 24" trunk line. (7 branch lines in southeast Sachse).	9,000	LF	n/a	$ 1,233,550.00	0.00%	100.00%	100.00%	$ 1,233,550.00
9	Future 8" branch lines connecting to Line "B" - 10" trunk line. (5 branch lines in southeast Sachse).	1,700	LF	n/a	$ 232,960.00	0.00%	100.00%	100.00%	$ 232,960.00
10	Line "C" - Future 12" sewer line from north side of George Bush Turnpike eastward along creek to proposed southeast lift station.	4,600	LF	n/a	$ 853,070.00	37.80%	57.19%	19.38%	$ 165,324.97
11	Future 8" sewer line along north side of George Bush Turnpike.	2,600	LF	n/a	$ 356,320.00	0.00%	100.00%	100.00%	$ 356,320.00
12	Future 8" branch line along south side and crossing to the north of George Bush Turnpike.	2,900	LF	n/a	$ 397,550.00	0.00%	100.00%	100.00%	$ 397,550.00
13	Future 8" branch line from 12" trunk line crossing creek north of George Bush Turnpike.	1,400	LF	n/a	$ 191,870.00	0.00%	100.00%	100.00%	$ 191,870.00
14	Future 8" branch line south of George Bush Turnpike from 24" trunk line eastward along church property.	2,700	LF	n/a	$ 370,120.00	0.00%	100.00%	100.00%	$ 370,120.00
15	Line "F" - Future 30" trunk line from existing Garland meter station eastward along Bunker Hill Road and northward along Miles Road.	2,900	LF	n/a	$ 1,309,480.00	72.07%	83.85%	11.79%	$ 154,387.69
16	Line "E" - Future 10" sewer line from 24" trunk line to Garland along southwest city limits line of Sachse.	2,900	LF	n/a	$ 467,670.00	0.00%	31.17%	31.17%	$ 145,749.84
17	Future 8" branch line running on west side of Heritage Park from existing 18" trunk line south of Sachse Elementary School.	800	LF	n/a	$ 109,730.00	0.00%	100.00%	100.00%	$ 109,730.00
18	Line "D" - Future 10" trunk line from existing 12" trunk line on east side of Heritage Park going southward under George Bush Turnpike.	3,700	LF	n/a	$ 596,680.00	0.00%	31.17%	31.17%	$ 185,985.16
19	2 future 8" trunk lines running in a east-west direction connecting to a 10" trunk line on the south side of George Bush Turnpike.	2,000	LF	n/a	$ 274,170.00	0.00%	100.00%	100.00%	$ 274,170.00
20	Future 8" sewer line from Hunter's Ridge lift station eastward to 12" sewer line.	1,000	LF	n/a	$ 137,010.00	0.00%	100.00%	100.00%	$ 137,010.00
21	Line "H" - Future 12" trunk line from Garland interceptor line northward to Murphy Road (Northwest Sachse).	400	LF	n/a	$ 74,140.00	96.00%	100.00%	4.00%	$ 2,965.60
22	2016 Impact Fee Update	1	LS	n/a	$ 118,250.00	0.00%	100.00%	100.00%	$ 118,250.00
					$ 19,897,540.00				**$ 5,224,088.32**

Note: City of Sachse may re-prioritize these projects based on PM fund availability and other factors.

Specific Example: Prorated value

Merritt Road Lift Station & Sachse Road Lift Station Upgrades:

Total Project Cost = $1,637,620.00

In 2011 : 72.07 % of the Capacity Utilized

In 2021: 83.86 % of the Capacity Utilized

Difference = 11.79%

Therefore:

11.79% x $1,637,620.00 = $193,075.40

Maximum Impact Fee Determination

- Total Prorated Project Cost
  - Water – converted to a per EDU Basis
  - Sanitary - converted to a per EDU Basis
  - Roadway – converted to a per Vehicle Mile Basis
- Methods for Recovering Costs of Service
  - Credit 50% cost of CIP allocated to new development over the next 10 years
- Derive the Maximum Impact Fee
  - Water (per EDU) - $3,602.42
  - Sanitary Sewer (per EDU) - $1,857.68
  - Roadway (per Vehicle Mile) - $1,042.73

Impact Fee Calculation

Sanitary sewer System Impact Fee

- MaxFee = (ExCost + PCost) / IncDU
- MaxFee = ($0.00 + $5,224,088.32) / 1,406
- MaxFee = $3,715.37

Max. Allowable Impact Fee Per EDU = MaxFee x 50%
= $1857.68

Where,
MaxFee = Maximum Impact Fee
ExCost = Eligible Existing Project Costs
PCost = Eligible Proposed Project Costs
IncDU = Increase of Equivalent Dwelling Units Over Next 10 Years

Impact Fee Comparison

LAND USE CATEGORY	DEVELOPMENT UNIT	SACHSE *(proposed)*	WYLIE (Service Area W)	WYLIE (Service Area E)	ROWLETT (Average)
General Light Industrial	1,000 SF GFA	$ 2,356.57	$ 2,182.95	$ 3,701.46	$ 544
Hotel	Room	$ 1,428.54	$ 1,314.23	$ 2,228.43	$ 272
Church	1,000 SF GFA	$ 1,334.69	$ 1,032.08	$ 1,750.01	$ 193
Day Care Center	1,000 SF GFA	$ 24,170.48	*N/A*	*N/A*	$ 3,815
Medical Clinic	1,000 SF GFA	$ 12,554.47	*N/A*	*N/A*	$ 2,712
Animal Hospital / Veterinary Clinic	1,000 SF GFA	$ 9,155.17	*$ 3,318.98*	*$ 5,627.73*	*$ 2,031*
General Office Building	1,000 SF GFA	$ 3,607.85	$ 3,318.98	$ 5,627.73	$ 827
Medical-Dental Office Building	1,000 SF GFA	$ 8,383.55	*$ 3,318.98*	*$ 5,627.73*	$ 2,031
Fast Food Restaurant with Drive-Thru Window	1,000 SF GFA	$ 40,583.05	*$ 15,570.23*	*$ 26,401.23*	$ 5,562
Quality Restaurant	1,000 SF GFA	$ 10,166.62	*$ 15,570.23*	*$ 26,401.23*	$ 1,394
Coffee / Donut Shop with Drive-Thru Window	1,000 SF GFA	$ 52,042.65	*$ 15,570.23*	*$ 26,401.23*	*$ 1,324*
Free-Standing Retail Store	1,000 SF GFA	$ 8,727.65	*$ 5,850.90*	*$ 9,920.92*	$ 1,324
Pharmacy / Drugstore w/ Drive-Thru Window	1,000 SF GFA	$ 12,794.30	*$ 5,850.90*	*$ 9,920.92*	$ 2,365
Supermarket	1,000 SF GFA	$ 16,287.44	*$ 5,850.90*	*$ 9,920.92*	$ 3,285
Drive-In Bank	Drive-In Lanes	$ 33,179.67	$ 28,868.40	$ 48,949.92	$ 6,826
Hair Salon	1,000 SF GFA	$ 2,815.37	*$ 5,850.90*	*$ 9,920.92*	*$ 1,324*

Notes
1. Fees shown in italics and highlighted did not have a direct corresponding land use category for comparison in that municipality. The depicted fee is based upon staff's professional judgment.
2. Rowlett Percent for Maximum Impact Fee Collected (50% for Residential, 10% Non-Residental)

Impact Fee Comparison

LAND USE CATEGORY	SACHSE	WYLIE (WEST)	WYLIE (EAST)	ROWLETT
General Light Industrial	2,356.57	2,182.95	3,701.46	544
Hotel	1,428.54	1,314.23	2,228.43	272
Church	1,334.69	1,032.08	1,750.01	193
Daycare	24,170.48	*N/A*	*N/A*	3,815
Medical Clinic	12,554.47	*N/A*	*N/A*	2,712

Impact Fee Comparison

LAND USE CATEGORY	SACHSE	WYLIE (WEST)	WYLIE (EAST)	ROWLETT
Animal Hospital / Veterinary Clinic	9,155.17	*3,318.98*	*5,627.73*	*2,031*
General Office Building	3,607.85	3,318.98	5,627.73	827
Medical-Dental Office Building	8,383.55	*3,318.98*	*5,627.73*	2,031
Fast Food Restaurant with Drive-Thru Window	40,583.05	*15,570.23*	*26,401.23*	5,562

Impact Fee Comparison

LAND USE CATEGORY	SACHSE	WYLIE (WEST)	WYLIE (EAST)	ROWLETT
Quality Restaurant	10,166.62	*15,570.23*	*26,401.23*	1,394
Coffee / Donut Shop with Drive-Thru Window	52,042.65	*15,570.23*	*26,401.23*	*1,324*
Free-Standing Retail Store	8,727.65	*5,850.90*	*9,920.92*	1,324
Pharmacy / Drugstore w/ Drive-Thru Window	12,794.30	*5,850.90*	*9,920.92*	2,365

Impact Fee Comparison

LAND USE CATEGORY	SACHSE	WYLIE (WEST)	WYLIE (EAST)	ROWLETT
Supermarket	16,287.44	*5,850.90*	*9,920.92*	3,285
Drive-In Bank	33,179.67	28,868.40	48,949.92	6,826
Hair Salon	2,815.37	*5,850.90*	*9,920.92*	*1,324*

Impact Fee Example

(70% Max. Water & 100% Max. Roadway & Sewer)

Single Family Residential
(with ¾-inch water meter)

- Water EDU is 1 for ¾-inch meter = **$2,521.69**
- Sanitary Sewer EDU is 1 for ¾" meter = **$1,857.68**
- Roadway per vehicle mile for single family residential is 2.35 = ($1,042.73 /vehicle mile *2.35 vehicle mile)= **$2,450.42**
- **TOTAL: $6,829.79**

Home Improvement Superstore (152,000 SF)
(with 2" water meter)

- Water EDU is 8 for 2" meter = **$20,173.57**
- Sanitary Sewer EDU is 8 for 2" meter = **$14,861.47**
- Roadway per vehicle mile for home improvement superstore is 2.87 per 1,000 SF = ($1,042.73 /vehicle mile *2.87*vehicle mile/SF*152)= **$454,881.28**
- **TOTAL: $489,916.32**

Special Considerations

- Deliberation of proposed impact fees in relation to surrounding municipalities tempered with the understanding that capital improvement needs for each respective municipality are unique for that municipality. (Comparative Municipalities are listed in Attachment 2 of Staff Report)
- Discussion of how the Impact Fees that are ultimately adopted may impact future development.

Staff Recommendation

Staff recommends approval of Impact Fee Ordinance.

Sachse City Hall
3815 Sachse Road Building
B
Sachse, Texas 75048

Legislation Details (With Text)

File #:	12-1154	**Version:**	2	**Name:**	CD - ZONING ORDINANCE FEES REMOVAL
Type:	Agenda Item			**Status:**	Agenda Ready
File created:	10/3/2012			**In control:**	City Council
On agenda:	11/5/2012			**Final action:**	

Title: Conduct a public hearing and consider approval of an ordinance of the City Council of the City of Sachse, Texas, amending the Code of Ordinances by amending Chapter 11, Section 11-2 titled "Zoning Fees" by providing for the adoption of a Master Fee Schedule for Zoning Fees through Council resolution; providing a repealing clause; providing a savings clause; providing a severability clause; providing for a penalty of fine not to exceed the sum of two thousand dollars ($2,000.00) for each offense; and providing an effective date.

Executive Summary
The proposed ordinance would modify the Zoning Fees section to remove the fees to be relocated to the Master Fee Schedule. The Master Fee Schedule will be considered by City Council together with this amendment as a separate but companion item.

Sponsors:

Indexes:

Code sections:

Attachments: CD - ZONING ORDINANCE FEES REMOVAL - DRAFT ORD.pdf

Date	Ver.	Action By	Action	Result

Title

Conduct a public hearing and consider approval of an ordinance of the City Council of the City of Sachse, Texas, amending the Code of Ordinances by amending Chapter 11, Section 11-2 titled "Zoning Fees" by providing for the adoption of a Master Fee Schedule for Zoning Fees through Council resolution; providing a repealing clause; providing a savings clause; providing a severability clause; providing for a penalty of fine not to exceed the sum of two thousand dollars ($2,000.00) for each offense; and providing an effective date.

Executive Summary

The proposed ordinance would modify the Zoning Fees section to remove the fees to be relocated to the Master Fee Schedule. The Master Fee Schedule will be considered by City Council together with this amendment as a separate but companion item.

Background

City Staff is in the process of removing fees from their Ordinances in an effort to relocate them to one collective location-the Master Fee Schedule. This amendment will simply remove the references to the three fees currently located in Section 11-2 of the Zoning Ordinance. The fees that are being removed will be replaced subsequent to this item as a separate companion item on the Agenda.

powered by Legistar™

Since these fees are located in the Zoning Ordinance it is necessary to conduct a public hearing in order to remain compliant with City Ordinances governing amendment of the Zoning Ordinance. A draft copy of the Ordinance has been included with the staff report for reference.

Policy Considerations
None.

Budgetary Considerations
None.

Staff Recommendations
Staff recommends approval of an ordinance of the City Council of the City of Sachse, Texas, amending the Code of Ordinances by amending Chapter 11, Section 11-2 titled “Zoning Fees” by providing for the adoption of a Master Fee Schedule for Zoning Fees through Council resolution; providing a repealing clause; providing a savings clause; providing a severability clause; providing for a penalty of fine not to exceed the sum of two thousand dollars ($2,000.00) for each offense; and providing an effective date.

ORDINANCE NO. _____

AN ORDINANCE OF THE COUNCIL OF THE CITY OF SACHSE, TEXAS, AMENDING THE CODE OF ORDINANCES BY AMENDING CHAPTER 11, SECTION 11-2 TITLED "ZONING FEES" BY PROVIDING FOR THE ADOPTION OF A MASTER FEE SCHEDULE FOR ZONING FEES THROUGH COUNCIL RESOLUTION; PROVIDING A REPEALING CLAUSE; PROVIDING A SAVINGS CLAUSE; PROVIDING A SEVERABILITY CLAUSE; PROVIDING FOR A PENALTY OF FINE NOT TO EXCEED THE SUM OF TWO THOUSAND DOLLARS ($2,000.00) FOR EACH OFFENSE; AND PROVIDING AN EFFECTIVE DATE.

WHEREAS, the Planning and Zoning Commission of the City of Sachse and the governing body of the City of Sachse, in compliance with state laws applying to amending the Zoning Ordinance, have given the requisite notice by publication and otherwise, and after holding due hearings and affording a full and fair hearing to all property owners generally, the governing body of the City of Sachse is of the opinion that said Zoning Ordinance should be amended as provided herein;

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SACHSE, TEXAS:

SECTION 1. That Chapter 11, Section 11-2 "Zoning Fees" of the City of Sachse Code of Ordinances be, and the same is hereby amended to read as follows:

"Chapter 11

ZONING

. . .

Sec. 11-2. Zoning Fees.

(1) Applications shall be accompanied by required fees as set forth in the City of Sachse Master Fee Schedule established by resolution of the City Council.

(2) Zoning Application fees and charges shall be collected by the City of Sachse when a request for rezoning or variance is tendered to the City, and each of the fees and charges shall be paid in advance, and no action of the City or any board or agency shall be valid until the fee shall have been paid to the City. These fees shall be charged on all requests, regardless of the action taken by the City and whether the request is approved or denied. The money collected shall defray the cost of administrative, clerical, and inspection services necessary.

. . ."

SECTION 2. That all provisions of the Ordinances of the City of Sachse, Texas, in conflict with the provisions of this ordinance be, and the same are hereby, repealed, and all other provisions of the Ordinances of the City not in conflict with the provisions of this ordinance shall remain in full force and effect.

SECTION 3. An offense committed before the effective date of this ordinance is governed by prior law and the provisions of the Code of Ordinances, as amended, in effect when the offense was committed and the former law is continued in effect for this purpose.

SECTION 4. That should any word, sentence, paragraph, subdivision, clause, phrase or section of this ordinance, be adjudged or held to be void or unconstitutional, the same shall not affect the validity of the remaining portions of said ordinance, which shall remain in full force and effect.

SECTION 5. That any person violating any of the provisions or terms of this Ordinance shall be subject to the same penalty as provided for in the Code of Ordinances of the City of Sachse as heretofore amended and upon conviction shall be punished by a fine not to exceed the sum of Two Thousand Dollars ($2,000.00) for each offense.

SECTION 6. This ordinance shall take effect immediately from and after its passage and the publication of the caption, as the law and charter in such cases provides.

PASSED AND APPROVED by the City Council of the City of Sachse, Texas this the _____ day of _____, 2012.

APPROVED:

_____
Mike Felix
Mayor

DULY ENROLLED:

_____
Terry Smith
City Secretary

APPROVED AS TO FORM:

_____
Peter G. Smith
City Attorney
(JJG/06-20-12/57577)

Sachse City Hall
3815 Sachse Road Building
B
Sachse, Texas 75048

Legislation Details (With Text)

File #:	12-1178	**Version:**	1	**Name:**	CD - AMEND MASTER FEE SCHEDULE
Type:	Agenda Item			**Status:**	Agenda Ready
File created:	10/26/2012			**In control:**	City Council
On agenda:	11/5/2012			**Final action:**	

Title: Consider adoption of a Resolution of the City Council of the City of Sachse, Texas, amending and restating the Master Fee Schedule to provide for Zoning Fees; Board of Adjustment Fees; Engineering Fees and amending Plat Filing Fees; providing for Building Permit Fees and Fire Department Fees; as set forth on the Master Fee Schedule attached hereto as Exhibit “A”; and providing for an effective date.

Executive Summary
This item will update accomplish several goals. First, it will update application fees as appropriate. Second, it will assist in the relocation of certain fees from the Code of Ordinances into a central Master Fee Schedule. Finally, it will relocate fees adopted by other resolutions into one central document.

Sponsors:

Indexes:

Code sections:

Attachments: CD - AMEND MASTER FEE SCHEDULE - DRAFT RESOLUTION.pdf
CD - AMEND MASTER FEE SCHEDULE - EXHIBIT A.pdf

Date	Ver.	Action By	Action	Result

Title

Consider adoption of a Resolution of the City Council of the City of Sachse, Texas, amending and restating the Master Fee Schedule to provide for Zoning Fees; Board of Adjustment Fees; Engineering Fees and amending Plat Filing Fees; providing for Building Permit Fees and Fire Department Fees; as set forth on the Master Fee Schedule attached hereto as Exhibit “A”; and providing for an effective date.

Executive Summary

This item will update accomplish several goals. First, it will update application fees as appropriate. Second, it will assist in the relocation of certain fees from the Code of Ordinances into a central Master Fee Schedule. Finally, it will relocate fees adopted by other resolutions into one central document.

Background

The purpose of this item threefold. First, this Resolution will update our current fees so they are competitive with associated review costs. Second, this item will allow for the relocation of certain fees from the Code of Ordinances into one centralized Master Fee Schedule. Finally,

powered by Legistar™

this item will relocate fees adopted by other resolutions into the Master Fee Schedule.

On August 20, 2012, a presentation was made to City Council discussing proposed fees for Building Inspections, Engineering and Planning. During this meeting, proposed fee changes were discussed and these amended fees are included in the proposed Master Fee Schedule. A similar Discussion Item was held before City Council on October 1, 2012, where a consensus was also reached on the proposed fees for the Fire Department.

There are two companion amendments not part of this particular agenda item that being considered at this City Council meeting. These companion amendments will simply remove the Ambulance Service fees from Chapter 5 (Fire Protection) and remove the Rezoning/Special Use Permit, Special Use Permit less than 90 days, and Variance fees from Chapter 11 (Zoning) of the Code of Ordinances so that they will be in the Master Fee Schedule. There are no proposed changes in the Ambulance Service fees. The changes in the Zoning fees are the same as discussed at the August 20, 2012 City Council meeting.

The process of combining the fees previously adopted by separate Resolutions for other Departments is also included in this item. This includes Animal Control, Library and Parks & Recreation fees.

All proposed fees have been discussed with the City Council and are shown in Exhibit A of the proposed Resolution.

Policy Considerations
None.

Budgetary Considerations
None.

Staff Recommendations
Staff recommends approval of a Resolution of the City Council of the City of Sachse, Texas, amending and restating the Master Fee Schedule to provide for Zoning Fees; Board of Adjustment Fees; Engineering Fees and amending Plat Filing Fees; providing for Building Permit Fees and Fire Department Fees; as set forth on the Master Fee Schedule attached hereto as Exhibit “A”; and providing for an effective date.

RESOLUTION NO._____

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF SACHSE, TEXAS, AMENDING AND RESTATING THE MASTER FEE SCHEDULE TO PROVIDE FOR ZONING FEES; BOARD OF ADJUSTMENT FEES; ENGINEERING FEES AND AMENDING PLAT FILING FEES; PROVIDING FOR BUILDING PERMIT FEES AND FIRE DEPARTMENT FEES; AS SET FORTH ON THE MASTER FEE SCHEDULE ATTACHED HERETO AS EXHIBIT "A"; AND PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, the City Council desires to amend the Master Fee Schedule adopted by Resolution No. 2177, as set forth on the Master Fee Schedule attached hereto as Exhibit "A";

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF SACHSE, TEXAS:

SECTION 1. That the Master Fee Schedule adopted by Resolution No. 2177 is hereby amended as set forth on the Master Fee Scheduled attached hereto as Exhibit "A."

SECTION 2. This Resolution shall take effect immediately from and after its passage, and it is accordingly so resolved.

DULY PASSED and approved by the City Council of the City of Sachse, Texas, on this the _____ day of _____, 2012.

CITY OF SACHSE, TEXAS

_____
Mike Felix, Mayor

ATTEST:

_____
Terry Smith, City Secretary

CITY OF SACHSE MASTER FEE SCHEDULE - EXHIBIT A

ANIMAL CONTROL	
Description	**Amount**
Adoption fee for cats/kittens and dogs/puppies (Fee includes sterilization/combo vaccine/rabies vaccine and microchip)	$80.00
Adoption fee for cats/kittens and dogs/puppies already sterilized (Fee includes combo vaccine/rabies vaccine and microchip)	$25.00
Dangerous dog annual registration	$100.00

BUILDING & BUILDING REGULATIONS	
BUILDING PERMIT FEE SCHEDULE	
Total Valuation	*Fee*
$1.00 to $500.00	$25.00
$501.00 to $2,000.00	$25.00 for the first $500.00 plus $3.05 for each additional $100.00
$2001.00 to $25,000.00	$69.25 for the $2,000.00 plus $14.00 or each additional $1,000.00
$25,001.00 to $50,000.00	$391.25 for the first $25,000.00 plus $10.00 for each additional $1,000.00
$50,001.00 to $100,000.00	$643.75 for the first $50,000.00 plus $7.00 for each additional $1,000.00
$100,001.00 to $500,000.00	$993.75 for the first $100,00.00 plus $5.60 for each additional $1,000.00
$501,000.00 to $1,000,000.00	$3,233.75 for the first $500,000.00 plus $44.75 for each additional $1,000.00
$1,000,001.00 and up	$5,608.75 for the $1,000,000.00 plus $3.65 for each additional $1,000.00
RESIDENTIAL HOMES	
Description	**Amount**
Residential Plan Review fee (new single-family homes)	30% of total building permit fee (based on Building Permit Fee Schedule)
New home construction is determined at	$70.00 per square foot (including garages, porches, and/or patios)
Residential Remodel/Addition	$70.00 per square foot (including garages, porches, and/or patios)
COMMERCIAL PLANS	
Description	**Amount**
Commercial Plan Review Fee (New Construction & Remodel)	30% of total building permit fee (based on Building Permit Fee Schedule)
LICENSES AND CONTRACTOR REGISTRATION	
Description	**Amount**
Plumber - Master Registration	$100.00
Electrician - Master Registration	$100.00
Electrician - Journeyman Registration	$50.00
Electrician - Residential Specialist	$25.00
Mechanical - License Holder Registration	$50.00
Backflow Specialist - Testers Registration	$50.00
Irrigation License Holder Registration	$50.00

BUILDING & BUILDING REGULATIONS (CONTINUED)	
SWIMMING POOLS	
Description	**Amount**
Storable Swimming Pool	$25.00
Above Ground Swimming Pool	$100.00
In-Ground Swimming Pool	$250.00
Spa / Hot Tub	$100.00
PLUMBING PERMITS	
Description	**Amount**
For issuing each permit	$20.00
For issuing each supplemental permit	$10.00
Unit Fee Schedule (in addition to initial and supplemental permit fee)	
1. For each fixture on one trap or a set of fixtures on one trap (including water, drainage piping and backflow protection device therefore:)	$7.00
2. For each building sewer and each trailer park sewer	$15.00
3. Rainwater systems- per drain (inside building)	$7.00
4. For each cesspool	$25.00
5. For each private sewage disposal system	$40.00
6. For each water heater and/or vent	$15.00
7. For each gas piping system of one to five outlets	$5.00
8. For each additional gas piping system outlet, per outlet	$1.00
9. For each industrial waste pretreatment interceptor including its trap and vent, excepting kitchen type grease interceptors functioning as fixture traps	$7.00
10. For each installation, alteration or repair of water piping and/or water treating equipment, each	$7.00
11. For each repair or alteration of drainage or vent piping, each fixture	$7.00
12. For each lawn sprinkler system on any one meter including backflow protection devices therefore	$7.00
13. For atmospheric-type vacuum breakers not included in item 12	
1 to 5	$5.00
over 5 (each)	$1.00
14. For each backflow protective device other than atmospheric type vacuum breakers:	
2-inch diameter and smaller	$7.00
Over 2-inch diameter	$15.00

BUILDING & BUILDING REGULATIONS (CONTINUED)	
MECHANICAL PERMIT FEE SCHEDULE	
Description	**Amount**
Initial Fee For the issuance of each permit	$30.00
New (Fee for inspecting heating, ventilating, ductwork, air-conditioning, exhaust, venting, combustion air, pressure, vessel, solar, fuel oil and refrigeration systems and appliance installation)	$15.00 for the first $1,000.00 valuation plus $5.00 for each additional $1,000.00 or fraction thereof
Repair (Fee for inspecting repairs, alterations and additions to an existing system)	$10.00 for the first $1,000.00 valuation plus $3.00 for each additional $1,000.00 or fraction thereof
Fee for inspecting boilers (based upon BTU input)	
33,000 BTU (1 BHp) to 165,000 BTU (5 BHp)	$15.00
165,001 BTU (5 BHp to 330,000 BTU (10 BHp)	$25.00
330,001 BTU (10 BHp) to 1,165,000 BTU (52 BHp)	$45.00
1,165,001 BTU (52 BHp) to 3,300,000 BTU (98 BHp)	$75.00
Over 3,300,000 BTU (98 BHp)	$100.00
Fee for inspecting fuel-gas piping shall be as follows:	
For each gas-piping system of 1 to 4 outlets	$8.00
For each gas-piping system, additional outlets over 5 (each)	$2.00
SIGN PERMITS	
Description	**Amount**
Permanent (per sign)	$75.00
Temporary (per sign)	$25.00
Repair (per sign)	$25.00
Sign Variance	$150.00
CERTIFICATE OF OCCUPANCY	
Description	**Amount**
Certificate of Occupancy	$50.00

BUILDING & BUILDING REGULATIONS (CONTINUED)	
OTHER PERMITS & FEES	
Description	**Amount**
Lawn Irrigation Permit	$50.00
Antenna Permit - Private	$35.00
Electrical Permit - Residential	$40.00
Electrical Permit - Non-Residential	$50.00
Plumbing Permit - Residential	$40.00
Plumbing Permit - Non-Residential	$50.00
Demolition of Residential Structure Permit	$75.00
Demolition of Commercial Structure Permit	$75.00
Fence Permit - Residential	$35.00
Fence Permit - Non-Residential	$70.00
Screen Wall	$50.00
Flatwork (patios, driveways, pads, sidewalks)	Based on Valuation of Construction Materials Only - See Building Permit Fee Schedule
Accessory Building in excess of 120 square feet	Based on Valuation of Construction Materials Only - See Building Permit Fee Schedule
Stock Tank	$50.00
All Other Permits for work that increases value of the property (examples include but are not limited to foundation repair, flag poles, residential roofing)	$25.00
Inspections outside of normal business hours	$50.00 per hour
Reinspection Fees	$50.00 per inspection
Additional plan review required by changes, additions or revisions to plans	$50.00 per hour
For use of outside consultants for plan checking and inspections or both (actual costs include administrative and overhead costs)	Actual costs

HEALTH AND SANITATION	
Description	**Amount**
Health Permit	$150.00
Temporary Food Sales	$50.00
Alcohol Permit	The fee shall equal to one-half of the state fee for each permit.

FIRE DEPARTMENT	
INSTALLATION/REPLACEMENT/RE-MODEL OF FIRE PROTECTION SYSTEMS	
Description	**Amount**
Plan Review Fee	$100
Fire Sprinkler Installation Permit (Per building)	
1 to 100 sprinklers	$275
101 to 200	$325
201 to 300	$350
301 to 400	$375
401 to 500	$425
Over 500	$500.00 + $0.33 each sprinkler over 500
Fire Alarm Installation Permit (Per building)	
Less than 10 devices	$50.00
11 to 25 devices	$75.00
25 to 100 devices	$150.00
100 to 200 devices	$200.00
More then 200	$400.00
Fire Alarm Panel Replacement Only	$100.00
Hydro & Flush (Per System)	$50.00
Fire Pump Per System (Per System)	$50.00
Hydrant Flow Test (2 Hydrants)	$50.00
Work started without a permit	$100.00 + Required Fee
Fire Dept. Permit Replacement	$10.00
Replacement Job Site plan re-stamp	$15.00
Vent/Hood/Booth Extinguishing System (Per System)	$50.00
2nd and subsequent re-inspections Fee	$50.00 for each re-inspection
FIRE DEPARTMENT INSPECTION/OCCUPANCY PERMIT	
Description	**Amount**
Carnivals and Fairs	$50.00
Exhibits and Trade Shows	$50.00
Temporary Structures, Tents or Canopies (Used for permits not included in a Community Development permit fee)	$50.00
In-Home Day Care Certificate of Occupancy	$50.00
Multi-Family Certificate of Occupancy	$25.00
Foster Care/Adoption Home Inspection	$25.00
Dangerous Building Abatement Admin Fee	$250.00
After Hour Inspection Fee	$50/hr min 2hr/$100.00
FIRE DEPARTMENT PERMIT	
Description	**Amount**
Outdoor/Open Burning	$150.00
Pyrotechnic Special Effects	$100.00
Hazardous Material Response Reimbursement	$400.00/hr for each engine and $200.00/hr for each ambulance plus supplies
Fire Watch/Stand-by	$50.00 per/hr for each Fire employee

FIRE DEPARTMENT (CONTINUED)	
AMBULANCE SERVICE	
Description	**Amount**
ALS (Resident) *Residents. Waive co-pay and deductible	$650.00
ALS (Non-Resident)	$650.00
ALS2 (Resident) *Residents. Waive co-pay and deductible	$750.00
ALS2 (Non-Resident)	$750.00
SCT	N/A
BLS (Resident) *Residents. Waive co-pay and deductible	$550.00
BLS (Non-Resident)	$550.00
Mileage	$12.00
Oxygen	$110.00
BLS supplies	$250.00
ALS supplies	$350.00
Extrication	$500.00
Technology fee	$10.00
No transport	$150.00
Extra attendant	$75.00

ZONING	
Description	**Amount**
Standard Zoning	$325.00 per request, plus $15.00 per acre
Special Use Permit	$650.00
Planned Development Zoning Request	$750.00 per request, plus $15.00 per acre
Planned Development Text Amendment to Ordinance	$400.00
Temporary Special Use Permit	$25.00
Zoning Verification Letter	$150.00

SUBDIVISION / PLAT APPLICATIONS	
Description	**Amount**
Preliminary Plat	$350.00 per plat, plus $15.00 per acre
Final Plat, Replat, Conveyance Plat	$450.00 per plat, plus $15.00 per acre
Minor Plat, Amending Plat, Vacating Plat	$350.00 per plat, plus $15.00 per acre

BOARD OF ADJUSTMENT	
Description	**Amount**
Variance Request	$200.00
Board of Appeals Request	$100.00

ENGINEERING	
Description	**Amount**
Engineering Inspection Fees	4.5% of cost of public improvements
Floodplain Permit	$100.00
Grading Permit	$100.00
Construction Plan Review	$300.00

TEMPORARY RETAIL AND SEASONAL SALES	
Description	**Amount**
Temporary Seasonal Sales (Church, school, civic and city sponsored events are exempt from this permit fee.)	$200.00
Temporary Food Sales Permit (Must be obtained from the Dallas County Health Department and applies to all applicants that are providing food products.)	*See Health & Sanitation Section*
Temporary Retail Sales (Five (5) consecutive days, at six (6) month intervals by the same merchant holding Certificate of Occupancy.)	$50.00
Electrical Fee, if applicable	$15.00

LIBRARY	
Description	**Amount**
The fees for failure to return library materials, which have been borrowed from the Sachse Public Library, within the time allowed, shall be as follows:	
Book (per day)	$0.10
DVD (per day)	$1.00
CD (per day)	$0.10
E-book readers (per day)	$5.00

PARKS & RECREATION	
BALL FIELD RESERVATIONS AND DEPOSITS	
Description	**Amount**
Families, churches, businesses, organizations or individuals requesting to reserve ball field(s) shall be charged shall be charged as follows (based on daily rates)	
Reservation fee	$ 25.00/field up to 4 hours (Additional $10.00 per field for each hour over 4 hours)
Light key deposit	$25.00
Clean-up deposit (For tournaments and/or concession stand use)	$50.00
COVERED PICNIC FACILITIES AND CITY COMPLEX AMPHITHEATER FEES (BASED ON DAILY RATES)	
Description	**Amount**
Reservation fee	$ 25.00/rental up to 4 hours (Additional $10.00 per hour for each hour over 4)
Reservation fee for restrooms during Amphitheater rental	$ 25.00/hour
FACILITY FEES	
Description	**Amount**
Library Meeting Room & Old City Hall Meeting Room	
Deposit (without food served)	$25.00
Deposit (with food served)	$50.00
Room rental (Non-profits)	None
Room rental (groups other than non-profits)	$25.00
Senior Activity Center Multi-Purpose Room A	$100.00
Deposit	$25.00/hour
Room Rental	
SENIOR CENTER	
Description	**Amount**
Senior Center (Resident)	$ 6.00 per year
Senior Center (Non-Resident)	$12.00 per year
Daily Pick-Up/Drop-Off for Seniors (Residents only and for locations only within the City)	$0.50/one way or $1.00 roundtrip

Sachse City Hall
3815 Sachse Road Building
B
Sachse, Texas 75048

Legislation Details (With Text)

File #:	12-1175	**Version:**	1	**Name:**	Consider appointments to Boards and Commissions.
Type:	Agenda Item			**Status:**	Agenda Ready
File created:	10/24/2012			**In control:**	City Council
On agenda:	11/5/2012			**Final action:**	
Title:	Consider appointments to Boards and Commissions. Executive Summary This agenda item will complete the final step for our annual appointments to Boards and Commissions.				
Sponsors:					
Indexes:					
Code sections:					
Attachments:	BD.Status.memo.pdf BD.Applications.pdf				

Date	Ver.	Action By	Action	Result

Title
Consider appointments to Boards and Commissions.

Executive Summary
This agenda item will complete the final step for our annual appointments to Boards and Commissions.

Background
Each year half of each city board is up for appointment to a two year term. Appointments tonight will result in city boards at full membership. (TIF Board terms expire in March and will be reviewed in a few months. Please see attached status memo, and applications.

Staff would request appointments be made to each board completely in the order the boards are listed on the statue memo: P&Z, ZBA, Parks, EDC and Animal Shelter Board.

Policy Considerations
Appointments will result in all City Boards and Commissions at full membership.

Budgetary Considerations
None.

Staff Recommendations
City Council consider appointments to Boards and Commissions, as appropriate.

powered by Legistar™

To: Mayor & Council Members, City Manager

From: Terry Smith, City Secretary

Date: October 30, 2012

Subject: Status - Appointments to Boards and Commissions **(Total : 21 vacancies 20 total applicants)**

The following information will bring you up-to-date on the status of appointments to the various boards:

NAME	REAPPLIED
Planning & Zoning Commission (P&Z) (4)	
Warren Becker	Yes
David Hock	Yes
Stephen Curtis	Yes
Charles Ross	Yes
Board of Adjustments (ZBA) (3)	
Corey Hill	Yes
Ken Danker	No
Stephen Klash	Yes
Parks & Recreation Commission (PK) (3)	
Kirsten Hill	No
Diana Smith	Yes
Spencer Hauenstein	Yes
Library Board (LB) (4)	
Diane Model	No
Dia Rhoden	Yes
Patrece King	Yes
Amos Pettis	No
Economic Development Corp. (EDC) (3)	
Eric Dumois	Yes
Darrell Lensch	No
Mark Caldwell	Yes
Animal Shelter Board (ASB) (4)	
Lesley Pettengill	No
Debbie Langham	Yes
Shellye Joseph	No
Vincent Montagno	

Note: In the past, Council has moved up alternate members and appointed new members of the Board as alternate member

Note: TIF Board terms expire in March

NEW APPLICANTS/Board Preferences: (In order of 1st, 2nd & 3rd Choices)

Michele Briggs: ASB/Library
Vicki Ewing: ASB/P&Z
Bill Alexander: P&Z/EDC
Mary Saathoff: Library/ZBA/PK
Cyndi Mitchell: PK
Druce Reiley: P&Z/PK
James Schmulbach: EDC/P&Z/ASB

Kirsten E. Hill
7505 Harvest Bend Lane
Sachse, TX 75048

Terry Smith
City Secretary
3815 Sachse Rd. Building B
Sachse, TX 75048

Dear Mr. Smith,

Thank you for accepting my application to be on the Parks and Recreation Board for the City of Sachse. Due to an increase in my work travel schedule and family commitments I regretfully resend my application for the upcoming term.

I have been honored to have spent the past several years representing our community and supporting the many activities the department sponsors throughout the year for our city. It has been a great pleasure working with the Board, Parks Department and other City members during my term. I look forward to seeing the continuous improvements and appreciate the great job and hard work the Parks Department does each and every day to make Sachse a great place to live.

Sincerely,

Kirsten E. Hill

Kirsten E. Hill

Terry Smith

From: Lesley [wildflowertexas2000@yahoo.com]
Sent: Monday, October 29, 2012 11:17 AM
To: Terry Smith
Subject: Animal Shelter Board

Terry,

It is with regret that I wish to withdraw my name for consideration from the Sachse Animal Board position. Sometime during the next term I will be leaving the area. It won't be immediate, but I felt another nominee should be considered over my application.

If my vacancy creates a hardship on the Board, I will certainly be willing to serve until such time a suitable replacement is found.

Kindest Regards,
Lesley Pettengill

PLANNING & ZONING COMMISSION

MEMBERS	TITLE	CONTACT INFO	TERM EXPIRES
Scott Williams 6612 Highland Crest Lane Sachse, TX 75048		972-675-0405 (W) 972-948-9210 (H)	**November 2013**
Wally Sparks 4903 Orchard Dr. Sachse, TX 75048		972-530-9943 (H)	**November 2013**
Scott Everett 5205 Miles Rd. Sachse, TX 75048		972-578-6512 (W) 972-530-4851 (H)	**November 2013**
Warren Becker 3905 Sunrise Tr Sachse, TX 75048	**Secretary**	214-802-0335 (W) 972-496-9076 (H)	**November 2012**
David Hock 2614 Pleasant Valley Sachse, TX 75048	**Vice-Chairman**	972-489-7460 (W) 972-495-6936 (H)	**November 2012**
Stephen Curtis 7619 Courtney Circle Sachse, Texas 75048	**Chairman**	972-360-2711 (W) 214-529-5066 (H)	**November 2012**
Charles Ross 2501 Sandi Lane Sachse, TX 75048		972-714-6206 (W) 972-530-1857 (H)	**November 2012**

Bill Adams **City Council Liaison** **214-502-4998**

10/8/2012

PARKS & RECREATION COMMISSION

MEMBERS	TITLE	CONTACT INFO	TERM EXPIRES
Kirsten Hill 7505 Harvest Bend Ln. Sachse, TX 75048		214-334-9001 (W) 972-442-0839 (H)	**November 2012**
J.D. Pruitt 3815 Potomac Dr. Sachse, TX 75048		972-623-8876 (W)	**November 2013**
Diana Smith 4802 Sachse Road Sachse, TX 75048	**Secretary**	972-495-7847 (H)	**November 2012**
Darlene Putman 6106 Crestmill Ln. Sachse, TX 75048	**Vice-Chair**	972-429-7875 (H)	**November 2013**
Juanita Miller 6505 Hilltop Trail Sachse, TX 75048		972-822-1550 (C) 972-746-9602 (W)	**November 2013**
Jeff Bickerstaff 6502 Baycrest Circle Sachse, TX 75048	**Chairman**	214-724-6222 (W) 972-442-1050 (H)	**November 2013**
Spencer Hauenstein 6619 Baycrest Cir. Sachse, TX 75048		214-717-9894 (W) 972-429-3559 (H)	**November 2012**

Brett Franks **City Council Liaison** **214-869-1288**

ECONOMIC DEVELOPMENT CORPORATION
BOARD OF DIRECTORS

MEMBERS	TITLE	CONTACT INFO	TERM EXPIRES
Suzanne Politz 2503 Barger Ct. Sachse, TX 75048		972-342-3852 (H) 972-889-1833 (W)	**November 2013**
Ken Thomas 2204 Ranch Road Sachse, Texas 75048	**Chairman**	972-429-5808 (H) 214-683-1898 (W)	**November 2013**
Brian Poff 5519 Bradford Estates Ct. Sachse, Texas 75048		214-403-5201 (H) 972-690-6023 (W)	**November 2013**
Jared Patterson 2728 Wrangler Ln. Sachse, Texas 75048		214-869-1357	**November 2013**
Eric Dumois 7008 Royal Oaks Estates Dr Sachse, TX 75048		214-438-7888 (H) 214-570-5259	**November 2012**
Darrell Lensch 1714 Cornwall Lane Sachse, TX 75048	**Vice-Chairman**	972-530-6478 (H) 214-442-6560 (W) Ext. 204	**November 2012**
Mark Caldwell 7518 Clearmeadow Sachse, TX 75048		972-429-3655 (H) 972-991-7700 (W)	**November 2012**

NOTE:
Terms for Board Members are two years.
Terms for Officers are one year.
Resolution No. 1366, 5/20/96.

LIBRARY BOARD

MEMBERS	TITLE	CONTACT INFO	TERM EXPIRES
Dixie Scogin 1802 Vicksburg Dr. Sachse, TX 75048		972-530-1725 (H)	**November 2013**
Robert Rodgers 1518 Bonanza Court Sachse, TX 75048	**Chairman**	214-206-2581 (W) 972-530-9720 (H)	**November 2013**
Judith Lensch 1714 Cornwall Sachse, TX 75048	**Vice-Chairman**	972-530-6478 (H)	**November 2013**
Diane Model 6419 Crestmoor Lane Sachse, TX 75048		972-429-3114 (W) 972-429-1170 (H)	**November 2012**
Dia Rhoden 7008 Oak Lawn Sachse, TX 75048		972-800-2427 (W) 972-495-7059 (H)	**November 2012**
Patrece King 3404 Potomac Drive Sachse, TX 75048		214-417-6185 (W) 972-496-5482 (H)	**November 2012**
Amos Pettis 4420 Canvasback Ln. Sachse, TX 75048	**Secretary**	(W) 972-414-1196 (H)	**November 2012**
Todd Ronnau	**City Council Liaison**	**214-869-1483**	

10/8/2012

BOARD OF ADJUSTMENTS

MEMBERS	TITLE	CONTACT INFO	TERM EXPIRES
Jordan Dean 2109 Quail Hollow Dr. Sachse, Texas 75048		972-948-6327 (W) 972-948-6327 (H)	**November 2013**
Kevin Quinn 6613 Eastview Dr. Sachse, TX 75048		214-578-2662 (W) 214-607-4852 (H) 214-578-2662 (C)	**November 2013**
Steve Oliver 7120 Vista Hill Lane Sachse, TX 75048	**Chairman**	972-205-3558 (W) 972-429-5116 (H)	**November 2013**
Corey Hill 7527 Vista Ridge Ln. Sachse, Texas 765048		(W) 972-849-4729 (H)	**November 2012**
Ken Danker 3125 Angie Place Sachse, TX 75048		972-495-3886 (H)	**November 2012**
Stephen Klash 2209 Ranch Road Sachse, TX 75048	**Alternate**	(W) 972-442-0840 (H)	**November 2012**
Donald Stockton 4815 Springtree Lane Sachse, TX 75048	**Alternate**	972-496-1848 (H)	**November 2013**

10/8/2012

ANIMAL SHELTER BOARD

MEMBERS	TITLE	CONTACT INFO	TERM EXPIRES
Stephanie Wilson 2712 Ingram Road Sachse, TX 75048		214-647-5454(W)	**November 2013**
Vincent Montagno 7002 Burning Bush Sachse, TX 75048	**Chairman**	972-530-5600 (H))	**November 2013**
Erica Goetz 6904 Falcon Crest Lane Sachse, TX 75048	**Secretary**	214-240-8849 (H)	**November 2013**
Barbara Johnson 6503 Creek Crossing Lane Sachse, TX 75048		972-344-8161 (W) 972-429-6627 (H)	**November 2013**
Lesley Pettengill 7619 Courtney Circle Sachse, TX 75048		972-665-1150 (W) 214-334-9265 (H)	**November 2012**
Debbie Langham 6802 Southgate Dr. Sachse, Texas 75048		972-675-3954 (H)	**November 2012**
Shellye Ross Joseph 3420 Irvin Dr. Sachse, TX 75048	**Vice-Chairman**	972-836-4036 (W)	**November 2012**
Pat McMillan 4912 Williford Sachse, TX 75048	**City Council Liaison**	972-495-0648 (H)	

10/8/2012

Attendance KEY:				P			A		NQ-P					R				NM				
2010/11				Present			Absent		No Quorum - Present					Resigned				No meeting				
Oct. 2011				Not Designated																		

PLANNING & ZONING (meets 2nd & 4th Monday)

NAME	Nov	Nov	Dec	Jan	Jan	Feb	Feb	Mar	Mar	Apr	Apr	May	May	Jun	Jun	Jul	Jul	Aug	Aug	Sep	Sep	Oct	Oct
	NM	NM							NM	NM	NM			NM	NM	NM				NM		NM	
Scott Everett																							
Robert Corbin																		A					
Wally Sparks												A				A			A				
David Hock																	A						
Warren Becker.												A						A					
Stephen Curtis				A	A																		
Charles Ross																							

Park & Recreation Commission

NAME	Nov		Dec		Jan			Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct
			NM																					
Brett Franks																		A						
Jeff Bickerstaff																								
Spencer Hauenstein												A				A								
Juanita Miller																								
Diana Smith																								
Kristin Hill																		A				A		
Darlene Putnman																								

ECONOMIC DEVELOPMENT CORP (meets 2nd Wednesday)

NAME	Nov		Dec		Jan			Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct
										NM														
Eric Dumois 10/11																								
Darrell Lensch			A																					
Ken Thomas														A										
Mark Caldwell																								
Brian Poff								A								A								
Councilmembers Timm & Patterson																								

Library Board

NAME	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
		NM		NM								
Michele Carter	A				A	A		A			A	
Patrece King								A				
Dia Rhoden							A					
Michael Ewing								A				
Robert Rodgers									A			
Amos Pettis							A					
Robbie Huddleston (11/09)											A	

BOARD OF ADJUSTMENT (meets 3rd Thursday-as called)

NAME	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
Vacant G. Lehmann	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	
Steve Oliver												
Ken Danker												
Kevin Quinn												
Corey Hill												
Jordan Dean, alternate												
Stephen Klash, Alternate												

ANIMAL SHELTER BOARD

NAME	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
		NM										
Marilyn Fouts												
Vincent Montagno												
Judith Lensch									A			
Leslie Pettengill					A							
Debbie Langham	A			A			A		A			
Shellye R. Joseph				A	A			A				
Justin Ridge				A	A			A		A	A	

Attendance KEY:				P			A			NQ-P					R				NM				
2011/12				Present			Absent			No Quorum - Present					Resigned				No meeting				
Oct. 2012				Not Designated																			

PLANNING & ZONING (meets 2nd & 4th Monday)

NAME	Nov	Nov	Dec	Jan	Jan	Feb	Feb	Mar	Mar	Apr	Apr	May	May	Jun	Jun	Jul	Jul	Aug	Aug	Sep	Sep	Oct	Oct
		NM		NM	NM			NM		NM			NM			NM	NM						
Scott Everett															A				A	A	A		
Scott Williams						A						A			A				A	A			
Wally Sparks						A	A				A				A								
David Hock																							
Warren Becker																							
Stephen Curtis											A	A											
Charles Ross						A													A				

Park & Recreation Commission (meets 2nd Thursday

NAME	Nov		Dec		Jan			Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct
Brett Franks																								
Jeff Bickerstaff																								
Spencer Hauenstein														A										
Juanita Miller																								
Diana Smith																								
Kristin Hill	A		A													A								
Darlene Putman																								
J.D. Pruitt 8/12																								

ECONOMIC DEVELOPMENT CORP (meets 2nd Wednesday)

NAME	Nov		Dec		Jan			Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct
										NM						NM								
Eric Dumois	A																							
Darrell Lensch																								
Ken Thomas			A																					
Mark Caldwell																								
Brian Poff														A										
Suzanne Politz																								
Councilman Patterson																								

Library Board (Meets 2nd Monday)

NAME	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
	NM		NM		NM						NM	
Patrece King								A				
Dia Rhoden												
Dixie Scogin												
Robert Rodgers												
Amos Pettis												
Judith Lensch								A	A			
Diane Model												

BOARD OF ADJUSTMENT (meets 3rd Thursday-as called)

NAME	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
	NM			NM	NM	NM	NM	NM	NM	NM	NM	NM
Steve Oliver												
Ken Danker		A										
Kevin Quinn		A										
Corey Hill												
Jordan Dean												
Stephen Klash, Alternate												
Donald Stockton, Alternate												

ANIMAL SHELTER BOARD (Meets every other 4th Thursday) * Every ither month

NAME	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
		NM										
Vincent Montagno			A				A					
Judith Lensch												
Leslie Pettengill												
Debbie Langham	A											
Shellye R. Joseph												
Stephanie Wilson 8/12												
Barbara Johnson 8/12												

City of Sachse

APPLICATION FOR BOARDS / COMMISSIONS

As an applicant for a Board or Commission, your name, address, and telephone number will be available to the press and the public. You will be contacted when action is taken on your appointment.

Board or Commission *of first, second and third choice*:

✓ Planning & Zoning Commission
____ Park & Recreation Commission
____ Board of Adjustments
____ Library Board
____ Economic Development Corporation Board
____ Animal Shelter Board
____ Other (please specify): _____

Name: Warren W. Becker

Address: 3905 Sunrise Tr. Sachse Tx 75048

Business Phone: 214-802-0335 **Home Phone:** 972-496-9076

Occupation: IT Professional

Education: BBA Baylor University - Majors in Information Technology, Mgt & Acct.

Resident of Sachse for 12 **Years** 1 **Months**

Voter Registration Number: 1082678825

List qualifications you feel make you a good candidate for this position: BBA From Baylor University, Professional Career in the Dallas/Local area for over 27 years, Active in The Garland PeeWee football program & The Little League. Supporter of Local Businesses in the Sachse Area. Back ground in Working with Municipalities from previous employment.

Professional and/or Community Activities: Baylor Alumni, Volunteer for The Habitat for Humanity, Coached Garland Little League Baseball, PeeWee football program, Served on The Garland Little League Association.

Boards/ Commissions Previously Served on (Sachse or other city):

Board of Adjustments	From 11/06	to	11/2010
Planning & Zoning	From 11/2010	to	Present
	From	to	

Signature Warren Becker **Date** 9/15/2012

PLEASE RETURN COMPLETED FORM TO:

OFFICE OF THE CITY SECRETARY
CITY OF SACHSE
3815 SACHSE RD., BLDG. B
SACHSE, TX 75048
972-495-1212 EXT. 23 FAX 972-530-0426

Revised 3/2/05

City of Sachse

APPLICATION FOR BOARDS / COMMISSIONS

As an applicant for a Board or Commission, your name, address, and telephone number will be available to the press and the public. You will be contacted when action is taken on your appointment.

Board or Commission *of first, second and third choice*:

✓ Planning & Zoning Commission
✓ Economic Development Corporation Board
____ Park & Recreation Commission
____ Animal Shelter Board
____ Board of Adjustments
____ Other (please specify): _____
____ Library Board

Name: David Hock

Address: 2416 Pleasant Valley

Business Phone: 972-489-7460 **Home Phone:** Same

Occupation: Real Estate

Education:
High School Some College

Resident of Sachse for 6 **Years** ____ **Months**

Voter Registration Number: 1080168003

List qualifications you feel make you a good candidate for this position:

Professional and/or Community Activities:

Boards/ Commissions Previously Served on (Sachse or other city):

Planning & Zoning From 2010 to 2012
From ____ to ____
From ____ to ____

Signature David Hock **Date** 8/30/2012

PLEASE RETURN COMPLETED FORM TO:

OFFICE OF THE CITY SECRETARY
CITY OF SACHSE
3815 SACHSE RD., BLDG. B
SACHSE, TX 75048
972-495-1212 EXT. 23 FAX 972-530-0426

Revised 3/2/05

Terry Smith

From: support@civicplus.com
Sent: Wednesday, September 19, 2012 10:55 AM
To: Terry Smith; Denise Vice
Subject: Online Form Submittal: Application for Boards and Commissions

If you are having problems viewing this HTML email, click to view a Text version.

Application for Boards and Commissions

As an applicant for a Board or Commission, your name, address, and telephone number will be available to the press and the public.			
Please select the Board / Commission you are applying for:			
First choice:	[Planning and Zoning Commission V]		
Second choice:	[Planning and Zoning Commission V]		
Third choice:	[Planning and Zoning Commission V]		
Personal Information			
Name:	Steve Curtis		
Address:	7619 Courtney Circle		
Business Phone:	972-360-2711	Home Phone:	214-529-5066
Email Address:	steve@curtis.name		
Occupation:	Senior Director of Real Estate and Development		
Education:	B.S. Business Adminstration - Cal State Sacramento		
Residency Information			
How long have you lived in Sachse?	4.5 years		
Are you a registered voter?	[X] Yes [ ] No	Voter Registration Number:	
Organization Membership Information			
List qualifications you feel make you a good candidate for this position:	Previous Planning and Zoning for past 3 years College degree specialized in Land Use Management & Planning. 30 years in commercial real estate having completed over 1,000 transactions in nearly every state. Numorous presentations to City Councils and P&Z Boards across country.		
Professional and/or community activities:	Member of International Council of Shopping Centers, Asian American Hotels Owners Association, American Hotel & Lodging Association		
If you are currently serving on a City of Sachse board or commission, which one:	[Planning and Zoning Commission V]		
Service dates (from/to):			
If you have previously served on a City of Sachse board or commission, which one:	[Select from dropdown list V]		
Service dates (from/to):			
By typing my name in the box I certify the above statements to be true and correct and that this information can be used for the purpose of processing my application for service on a Sachse Board and/or Commission.	*Stephen Curtis*		
Date:	9/19/2012		
Thank you for your interest. You will be contacted when action is taken on your application.			

City of Sachse

APPLICATION FOR BOARDS / COMMISSIONS

As an applicant for a Board or Commission, your name, address, and telephone number will be available to the press and the public. You will be contacted when action is taken on your appointment.

Board or Commission *of first, second and third choice*:

1	Planning & Zoning Commission	2	Economic Development Corporation Board
3	Park & Recreation Commission		Animal Shelter Board
	Board of Adjustments		Other (please specify):
	Library Board		

Name: Charles Ross

Address: 2501 Sandi Ln., Sachse, TX 75048

Business Phone: 972-583-1550 **Home Phone:** 972-530-1857

Occupation: Software Architect

Education: MS Computer science, Baylor University
BS Computer science, Baylor University

Resident of Sachse for 4 **Years** 0 **Months**

Voter Registration Number: 1090348464

List qualifications you feel make you a good candidate for this position:

- Current board experience
- Good understanding of Sachse government structure, procedures, and policy

Professional and/or Community Activities:

- city board member
- YMCA steering committee member
- volunteer at my church

Boards/ Commissions Previously Served on (Sachse or other city):

Planning & Zoning	From	2011	to	2012
Board of Adjustments	From	2009	to	2010
	From		to	

Signature Charles Ross **Date** 9/4/2012

PLEASE RETURN COMPLETED FORM TO:

OFFICE OF THE CITY SECRETARY
CITY OF SACHSE
3815 SACHSE RD., BLDG. B
SACHSE, TX 75048
972-495-1212 EXT. 23 FAX 972-530-0426

Revised 3/2/05

City of Sachse

APPLICATION FOR BOARDS / COMMISSIONS

As an applicant for a Board or Commission, your name, address, and telephone number will be available to the press and the public. You will be contacted when action is taken on your appointment.

Board or Commission *of first, second and third choice*:

____	Planning & Zoning Commission	____	Economic Development Corporation Board
____	Park & Recreation Commission	____	Animal Shelter Board
X	Board of Adjustments	____	Other (please specify):
____	Library Board		

Name: Corey Hill

Address: 7527 Vista Ridge Lane

Business Phone: **Home Phone:** 9728494729

Occupation: Engineer

Education: BS

Resident of Sachse for 6 **Years** _____ **Months**

Voter Registration Number:

List qualifications you feel make you a good candidate for this position:

Professional and/or Community Activities: precinct chairman

Boards/ Commissions Previously Served on (Sachse or other city):

Board of Adjustments From _____ to _____

From _____ to _____

From _____ to _____

Signature Corey Hi **Date**

PLEASE RETURN COMPLETED FORM TO:

OFFICE OF THE CITY SECRETARY
CITY OF SACHSE
3815 SACHSE RD., BLDG. B
SACHSE, TX 75048
972-495-1212 EXT. 23 FAX 972-530-0426

Revised 3/2/05

City of Sachse

APPLICATION FOR BOARDS / COMMISSIONS AND OTHER POSITIONS

As an applicant for a Board or Commission, your name, address, and telephone number will be available to the press and the public. You will be contacted when action is taken on your appointment.

Board or Commission of *first, second and third choice*:

- ____ Planning & Zoning Commission
- ____ Parks & Recreation Commission
- X Zoning Board of Adjustments
- ____ Library Board
- ____ Animal Shelter Board
- ____ Economic Development Corporation Board
- ____ Other (please specify): ____

Name: STEPHEN JOHN KLASH

Address: 2209 RANCH ROAD

Business Phone: 972-754-4082 **Home Phone:** 972-412-0590

Occupation: Medical Physicist

Education:
M.S. Radiological Biophysics

Resident of Sachse for 9 **Years** 7 **Months**

Voter Registration Number: 1077915247

List qualifications you feel make you a good candidate for this position:
- currently in the ZBOA
- father worked in the building business for decades - helps in knowing questions to ask
- very detailed person, look at the technical

Professional and/or Community Activities:
- Member of American Association of Physicists in Medicine
- Member of church choir
- Regular Blood donor
- involved with church Faith Formation

Boards/ Commissions Previously Served on (Sachse or other city):

Zoning Board of Adjustments From Jan 2011 to Present
From ____ to ____
From ____ to ____

Signature Stephen J. Klash **Date** 09/17/2012

PLEASE RETURN COMPLETED FORM TO:
OFFICE OF THE CITY SECRETARY
CITY OF SACHSE
3815 SACHSE ROAD, BUILDING B
SACHSE, TX 75048
469-429-4775 OR FAX 972-530-0426

Revised 10/08/10

City of Sachse

APPLICATION FOR BOARDS / COMMISSIONS AND OTHER POSITIONS

As an applicant for a Board or Commission, your name, address, and telephone number will be available to the press and the public. You will be contacted when action is taken on your appointment.

Board or Commission of *first, second and third choice*:

____	Planning & Zoning Commission	____	Animal Shelter Board
1st	Parks & Recreation Commission	____	Economic Development Corporation Board
____	Zoning Board of Adjustments	____	Other (please specify):
____	Library Board		____

Name: Diana L Smith

Address: 4802 Sachse Rd

Business Phone: **Home Phone:** 972 495 7847

Occupation: care giver

Education: HS grad, some college Ind. St. U.

Resident of Sachse for 27 **Years** 11 **Months**

Voter Registration Number: 1083683580

List qualifications you feel make you a good candidate for this position:
I'm up to date on current plans & projects within the City, having served 2 yrs now (without missing any meetings). I also volunteer any Park →

Professional and/or Community Activities:
I volunteer at the Library at least once a week & try to help out at all special events. →

Boards/ Commissions Previously Served on (Sachse or other city):

Library	From Fall 90	to Fall 92
Planning & Zoning	From Fall 92	to Fall 94
	From	to

Signature [signature] **Date** Aug 28, 2012

PLEASE RETURN COMPLETED FORM TO:
OFFICE OF THE CITY SECRETARY
CITY OF SACHSE
3815 SACHSE ROAD, BUILDING B
SACHSE, TX 75048
469-429-4775 OR FAX 972-530-0426

Revised 10/08/10

Terry Smith

From: support@civicplus.com
Sent: Wednesday, September 19, 2012 11:24 AM
To: Terry Smith; Denise Vice
Subject: Online Form Submittal: Application for Boards and Commissions

If you are having problems viewing this HTML email, click to view a Text version.

Application for Boards and Commissions

As an applicant for a Board or Commission, your name, address, and telephone number will be available to the press and the public.			
Please select the Board / Commission you are applying for:			
First choice:	[Planning and Zoning Commission √]		
Second choice:	[Economic Development Corporation Board √]		
Third choice:	[Parks and Recreation Commission √]		
Personal Information			
Name:	Spencer Hauenstein		
Address:	6619 Baycrest Cir		
Business Phone:		Home Phone:	214-717-9894
Email Address:	svh01973@hotmail.com		
Occupation:	Electrical Engineer		
Education:	Bachelor's Degree in Electrical Engineering with a Business Minor from the University of Houston, 1997		
Residency Information			
How long have you lived in Sachse?	11 years		
Are you a registered voter?	[X] Yes [ ] No	Voter Registration Number:	
Organization Membership Information			
List qualifications you feel make you a good candidate for this position:	I have served the city for 8 years and have been a citizen for 11 years. During that time I have tried to provide thoughtful guidance by closely examining the issues facing the city, and through thorough discussion with my fellow board members.		
Professional and/or community activities:	Serving in the Texas State Guard, 2010 to present, attaining rank of Senior Airman, with training in Emergency Shelter Management. Member of Messiah Lutheran Church, Plano, TX.		
If you are currently serving on a City of Sachse board or commission, which one:	[Parks and Recreation Commission √]		
Service dates (from/to):	2006 to 2012		
If you have previously served on a City of Sachse board or commission, which one:	[Zoning Board of Adjustments √]		
Service dates (from/to):	2004 to 2006		
By typing my name in the box I certify the above statements to be true and correct and that this information can be used for the purpose of processing my application for service on a Sachse Board and/or Commission.	*Spencer V. Hauenstein*		
Date:	09/19/2012		
Thank you for your interest. You will be contacted when action is taken on your application.			

City of Sachse

APPLICATION FOR BOARDS / COMMISSIONS

As an applicant for a Board or Commission, your name, address, and telephone number will be available to the press and the public. You will be contacted when action is taken on your appointment.

Board or Commission *of first, second and third choice*:

____	Planning & Zoning Commission	____	Economic Development Corporation Board
____	Park & Recreation Commission	____	Animal Shelter Board
____	Board of Adjustments	____	Other (please specify):
✓	Library Board		

Name: LaWan-Dia D. Rhoden

Address: 7008 Oak Lawn

Business Phone: **Home Phone:** 972 495 7059

Occupation: Youth Library Services - Wylie, Texas

Education:

Bachelor of Arts and Science, Interdisciplinary Studies

Resident of Sachse for _____ **Years** _____ **Months**

Voter Registration Number: 1077897146

List qualifications you feel make you a good candidate for this position:

As a Member of the Sachse Library Board, I have been able to advocate our Library Services to families in the community as well as to authors, booksellers and librarians (Public and Academic).

Professional and/or Community Activities:

Member of the Friends of the Sachse Library

Boards/ Commissions Previously Served on (Sachse or other city):

Sachse Library Board	From 2010	to 2012
	From	to
	From	to

Signature LaWan-Dia Rhoden **Date** 9-21-2012

PLEASE RETURN COMPLETED FORM TO:

OFFICE OF THE CITY SECRETARY
CITY OF SACHSE
3815 SACHSE RD., BLDG. B
SACHSE, TX 75048
972-495-1212 EXT. 23 FAX 972-530-0426

Revised 3/2/05

City of Sachse

APPLICATION FOR BOARDS / COMMISSIONS

As an applicant for a Board or Commission, your name, address, and telephone number will be available to the press and the public. You will be contacted when action is taken on your appointment.

Board or Commission *of first, second and third choice*:

____	Planning & Zoning Commission	____	Economic Development Corporation Board
____	Park & Recreation Commission	____	Animal Shelter Board
____	Board of Adjustments	____	Other (please specify): ____
✓	Library Board		

Name: Patrece King

Address: 3404 Potomac DR Sachse 75048

Business Phone: 214-4176185 **Home Phone:** 972-496-5482

Occupation: teach

Education:

BS math & MBA

Resident of Sachse for 11 **Years** 6 **Months**

Voter Registration Number: TJL 15289188

List qualifications you feel make you a good candidate for this position:

Currently, I am an English teacher at Sachse High. I can serve as a liason for the Board.

Professional and/or Community Activities:

Sachse High English teacher
Garland Pee Wee - Cheerleader + football player

Boards/ Commissions Previously Served on (Sachse or other city):

Library Board From Nov. 2005 to Present
From ____ to ____
From ____ to ____

Signature Patrece King **Date** 9-12-17

PLEASE RETURN COMPLETED FORM TO:

OFFICE OF THE CITY SECRETARY
CITY OF SACHSE
3815 SACHSE RD., BLDG. B
SACHSE, TX 75048
972-495-1212 EXT. 23 FAX 972-530-0426

Revised 3/2/05

City of Sachse

APPLICATION FOR BOARDS / COMMISSIONS

As an applicant for a Board or Commission, your name, address, and telephone number will be available to the press and the public. You will be contacted when action is taken on your appointment.

Board or Commission ***of first, second and third choice*****:**

- ____ Planning & Zoning Commission
- ____ Park & Recreation Commission
- ____ Board of Adjustments
- ____ Library Board
- ✓ Economic Development Corporation Board
- ____ Animal Shelter Board
- ____ Other (please specify): _____

Name: Eric Dumais

Address: 7008 Royal Oak Estates Drive, Sachse, TX 75048

Business Phone: (214) 570-5259 **Home Phone:** (214) 438-7888

Occupation: Sr. Manager, MetroPCS Wireless

Education:

B.S.E.E.

Resident of Sachse for 4 **Years** 5 **Months**

Voter Registration Number:

List qualifications you feel make you a good candidate for this position:

Retail Experience – Shop owner for 4 years
Financial Services Experience – in the industry for over 20 years
Concerned for Growth of Sachse

Professional and/or Community Activities:

Student Leadership at Church for most of my life
Volunteer with Dallas Mayor's Ball to School for over 4 years

Boards/ Commissions Previously Served on (Sachse or other city):

EDC From 11/11 to Present
From ____ to ____
From ____ to ____

Signature _____ **Date** 9/5/12

PLEASE RETURN COMPLETED FORM TO:

OFFICE OF THE CITY SECRETARY
CITY OF SACHSE
3815 SACHSE RD., BLDG. B
SACHSE, TX 75048
972-495-1212 EXT. 23 FAX 972-530-0426

Revised 3/2/05

City of Sachse

APPLICATION FOR BOARDS / COMMISSIONS

As an applicant for a Board or Commission, your name, address, and telephone number will be available to the press and the public. You will be contacted when action is taken on your appointment.

Board or Commission *of first, second and third choice*:

(2) Planning & Zoning Commission

✓ (1) Economic Development Corporation Board

Park & Recreation Commission

Animal Shelter Board

Board of Adjustments

Other (please specify):

(3) Library Board

Name: MARK R. CALDWELL

Address: 7518 CLEARMEADOW LN

Business Phone: 972-991-7700 **Home Phone:** 972-429-3655

Occupation: LAWYER

Education: BA, SMU; GENERAL COURSE, LONDON SCHOOL OF ECONOMICS; JD, NEW ENGLAND LAW

Resident of Sachse for 2 **Years** 4 **Months**

Voter Registration Number:

List qualifications you feel make you a good candidate for this position:
HAVE SUBSTANTIAL EXPERIENCE - SERVED ON EDC FOR ALMOST 2 YEARS
BRING UNIQUE legal skill set to problem solving
ENJOY working with others

Professional and/or Community Activities: DALLAS BAR ASSOCIATION; ST. THOMAS MORE SOCIETY;

Boards/ Commissions Previously Served on (Sachse or other city):

SACHSE EDC From 11/10 to 11/12

From to

From to

Signature **Date** 9/3/12

PLEASE RETURN COMPLETED FORM TO:

OFFICE OF THE CITY SECRETARY
CITY OF SACHSE
3815 SACHSE RD., BLDG. B
SACHSE, TX 75048
972-495-1212 EXT. 23 FAX 972-530-0426

Revised 3/2/05

** INBOUND NOTIFICATION : FAX RECEIVED WITH ERRORS **

TIME RECEIVED	REMOTE CSID	DURATION	PAGES	STATUS
September 19, 2012 4:16:16 PM CDT		78	1	Failed to

ERROR CODE (700)
Error in fax transmission.

FROM : FAX NO. : Aug. 31 2011 11:53AM P 1

City of Sachse

APPLICATION FOR BOARDS / COMMISSIONS

As an applicant for a Board or Commission, your name, address, and telephone number will be available to the press and the public. You will be contacted when action is taken on your appointment.

Board or Commission ***of first, second and third choice:***

- ____ Planning & Zoning Commission
- ____ Park & Recreation Commission
- ____ Board of Adjustments
- ____ Library Board
- ____ Economic Development Corporation Board
- ✓ Animal Shelter Board
- ____ Other (please specify): _____

Name: Debbie A Langham

Address: 6802 Southgate Dr

Business Phone: - **Home Phone:** 972 675-3954

Occupation: Teacher Art - K-12

Education: BS Accounting - University of Denver

Resident of Sachse for 12 **Years** 8 **Months**

Voter Registration Number: 108 3868833

List qualifications you feel make you a good candidate for this position:

animal lover, fund raiser

Professional and/or Community Activities:

RCAS, Heights Baptist Church, SWS, CIVA

Boards/ Commissions Previously Served on (Sachse or other):

City of Sachse

APPLICATION FOR BOARDS / COMMISSIONS AND OTHER POSITIONS

As an applicant for a Board or Commission, your name, address, and telephone number will be available to the press and the public. You will be contacted when action is taken on your appointment.

Board or Commission of *first, second and third choice*:

____	Planning & Zoning Commission	X 1	Animal Shelter Board *
____	Parks & Recreation Commission	____	Economic Development Corporation Board
____	Zoning Board of Adjustments	____	Other (please specify):
2	Library Board		

Name: Michele C. Briggs

Address: 1407 Westgate Dr. Sachse TX 75048

Business Phone: **Home Phone:** 972-495-4954

Occupation: Housewife

Education: M.S. MultiDisiplinary Studies (California State University Stanislaus)
M.S. International Management (TROY State)

Resident of Sachse for 2 **Years** 9 **Months**

Voter Registration Number:

List qualifications you feel make you a good candidate for this position:
1. Volunteer at Sachse Shelter
2. FEMA Trained ICS instructor
3. Red Cross Emergency Services instructor - Team member - Director emergency services (volunteer)

Professional and/or Community Activities: Sachse CERT, Dallas County RACES, Collin County ARES, volunteer at Sachse Animal Shelter

Boards/ Commissions Previously Served on (Sachse or other city):

Sagadahoc County Maine Local Emergency Planning Commission	From 2006	to 2010
Lincoln County LEPC	From 2006	to 2010
State (Maine) Exercise Planning Commission	From 2006	to 2008

Signature Michelle C Briggs **Date** 28 August 2012

PLEASE RETURN COMPLETED FORM TO:
OFFICE OF THE CITY SECRETARY
CITY OF SACHSE
3815 SACHSE ROAD, BUILDING B
SACHSE, TX 75048
469-429-4775 OR FAX 972-530-0426

Revised 10/08/10

Terry Smith

From: support@civicplus.com
Sent: Monday, August 27, 2012 12:05 PM
To: Terry Smith; Denise Vice
Subject: Online Form Submittal: Application for Boards and Commissions

If you are having problems viewing this HTML email, click to view a Text version.

Application for Boards and Commissions

As an applicant for a Board or Commission, your name, address, and telephone number will be available to the press and the public.			
Please select the Board / Commission you are applying for:			
First choice:	[Animal Shelter Board V]		
Second choice:	[Planning and Zoning Commission V]		
Third choice:	[Planning and Zoning Commission V]		
Personal Information			
Name:	Vicki Ewing		
Address:	4517 westcreek lane		
Business Phone:		Home Phone:	972-530-8432
Email Address:	vicki531@msn.com		
Occupation:	registered nurse, semi retired		
Education:	BS IN SCIENCE BS IN PSYCHOLOGY BS IN SOCIOLOGY		
Residency Information			
How long have you lived in Sachse?	20 YEARES		
Are you a registered voter?	[X] Yes [ ] No	Voter Registration Number:	1081530138
Organization Membership Information			
List qualifications you feel make you a good candidate for this position:	I have had pets all of my life. Have donated to the shelter. Have helped capture wildlife that needs to be moved to a safer location. Very interested in animal concerns for both the wildlife and pets in Sachse. Worked with a vet when I lived in Iowa. Helped with surgeries, and routine care. Have offered volunteer help to the animal shelter,and helped in feeding kittens.		
Professional and/or community activities:	Critical care nursing. Gem and rock club. Spring forest nature preserve. Attend city council meetings.		
If you are currently serving on a City of Sachse board or commission, which one:	[Select from dropdown list V]		
Service dates (from/to):			
If you have previously served on a City of Sachse board or commission, which one:	[Select from dropdown list V]		
Service dates (from/to):			
By typing my name in the box I certify the above statements to be true and correct and that this information can be used for the purpose of processing my application for service on a Sachse Board and/or Commission.	*Vicki Ewing*		
Date:	8/27/2012		
Thank you for your interest. You will be contacted when action is taken on your application.			

Terry Smith

From: support@civicplus.com
Sent: Wednesday, August 01, 2012 2:04 PM
To: Terry Smith; Denise Vice
Subject: Online Form Submittal: Application for Boards and Commissions

If you are having problems viewing this HTML email, click to view a Text version.

Application for Boards and Commissions

As an applicant for a Board or Commission, your name, address, and telephone number will be available to the press and the public.			
Please select the Board / Commission you are applying for:			
First choice:	[Planning and Zoning Commission V]		
Second choice:	[Economic Development Corporation Board V]		
Third choice:	[Planning and Zoning Commission V]		
Personal Information			
Name:	Bill Alexander		
Address:	3615 sachse rd		
Business Phone:		Home Phone:	972-530-2356
Email Address:	balexander61@61.rr.com		
Occupation:	Retired		
Education:	High School and some college		
Residency Information			
How long have you lived in Sachse?	5 years		
Are you a registered voter?	[X] Yes [ ] No	Voter Registration Number:	1035233235
Organization Membership Information			
List qualifications you feel make you a good candidate for this position:	I have lived in many locations across the state of Texas and have worked the same and I have always tried to maintain a well kept house and yard. My working experience has included many aspects of computer work and also other areas , along with managing a number of employees . I work well with people such as Doug Angle with Code and Joe Craze with Public maintanous and I would like to volunteer to be of some help to my town of Sachse...		
Professional and/or community activities:			
If you are currently serving on a City of Sachse board or commission, which one:	[Select from dropdown list V]		
Service dates (from/to):			
If you have previously served on a City of Sachse board or commission, which one:	[Select from dropdown list V]		
Service dates (from/to):			
By typing my name in the box I certify the above statements to be true and correct and that this information can be used for the purpose of processing my application for service on a Sachse Board and/or Commission.	*Bill Alexander*		
Date:	aug 01, 2012		

Terry Smith

From: support@civicplus.com
Sent: Saturday, September 22, 2012 8:30 AM
To: Terry Smith; Denise Vice
Subject: Online Form Submittal: Application for Boards and Commissions

If you are having problems viewing this HTML email, click to view a Text version.

Application for Boards and Commissions

As an applicant for a Board or Commission, your name, address, and telephone number will be available to the press and the public.			
Please select the Board / Commission you are applying for:			
First choice:	[Library Board V]		
Second choice:	[Zoning Board of Adjustments V]		
Third choice:	[Parks and Recreation Commission V]		
Personal Information			
Name:	Mary Saathoff		
Address:	4108 Emerson Way		
Business Phone:	-	Home Phone:	214-629-0522
Email Address:	mlsaathoff@gmail.com		
Occupation:	Library Assistant - Beaver Elementary, PT Admin Asst - Sachse Chamber		
Education:	Dallas Community College - Richland (56 hours)		
Residency Information			
How long have you lived in Sachse?	20 years		
Are you a registered voter?	[X] Yes [ ] No	Voter Registration Number:	1081358894
Organization Membership Information			
List qualifications you feel make you a good candidate for this position:	Current position is in a library. Have been on Boards and Commissions previously and understand the requirements and commitments.		
Professional and/or community activities:	School Related: GESSA, TESA, Texas Educator Certificate Community: Venturing Crew 145 Committee Member, Sachse CERT, Fallfest Committee, Sachse Public Library Volunteer (Computer Class Instructor, Program Instructor, Event Coor)		
If you are currently serving on a City of Sachse board or commission, which one:	[Select from dropdown list V]		
Service dates (from/to):			
If you have previously served on a City of Sachse board or commission, which one:	[Parks and Recreation Commission V]		
Service dates (from/to):	1990's - I'll let Terry check the dates ;)		
By typing my name in the box I certify the above statements to be true and correct and that this information can be used for the purpose of processing my application for service on a Sachse Board and/or Commission.	*Mary Saathoff*		
Date:	9/22/2012		
Thank you for your interest. You will be contacted when action is taken on your application.			

Terry Smith

From: support@civicplus.com
Sent: Friday, July 06, 2012 12:13 PM
To: Terry Smith; Denise Vice
Subject: Online Form Submittal: Application for Boards and Commissions

If you are having problems viewing this HTML email, click to view a Text version.

Application for Boards and Commissions

As an applicant for a Board or Commission, your name, address, and telephone number will be available to the press and the public.		
Please select the Board / Commission you are applying for:		
First choice:	[Parks and Recreation Commission V]	
Second choice:	[Parks and Recreation Commission V]	
Third choice:	[Parks and Recreation Commission V]	
	Personal Information	
Name:	CYNDI MITCHELL	
Address:	3128 WELCH LANE	
Business Phone:	972-322-2558	Home Phone:
Email Address:	CYNDIKM@VERIZON.NET	
Occupation:	HR/OFFICE MANAGER	
Education:	HIGH SCHOOL DIPLOMA US ARMY ADMIN PERSONNEL SPECIALIST CERTIFICATION	
	Residency Information	
How long have you lived in Sachse?	16 YEARS	
Are you a registered voter?	[X] Yes [ ] No	Voter Registration Number:
	Organization Membership Information	
List qualifications you feel make you a good candidate for this position:	I AM VESTED IN THE CITY OF SACHSE. I LOVE OUR CITY AND WOULD LIKE TO BE MORE INVOLVED WITH ALL ASPECTS OF THE PARKS AND REC BOARD.	
Professional and/or community activities:	I HAVE BEEN ON THE EXECUTIVE BOARD FOR SACHSE BASEBALL ASSOCIATION FOR 16 YEARS. I HAVE SERVED ON SPCAAA EXECUTIVE BOARD, CERT MEMBER, CHAMBER AMBASSADOR AND MANY OTHER VOLUNTEER COMMITTEES FOR THE CITY OF SACHSE.	
If you are currently serving on a City of Sachse board or commission, which one:	[Select from dropdown list V]	
Service dates (from/to):		
If you have previously served on a City of Sachse board or commission, which one:	[Select from dropdown list V]	
Service dates (from/to):		
By typing my name in the box I certify the above statements to be true and correct and that this information can be used for the purpose of processing my application for service on a Sachse Board and/or Commission.	*CYNDI MITCHELL*	
Date:	07/06/12	
Thank you for your interest. You will be contacted when action is taken on your application.		

Terry Smith

From: support@civicplus.com
Sent: Saturday, July 28, 2012 12:01 PM
To: Terry Smith; Denise Vice
Subject: Online Form Submittal: Application for Boards and Commissions

If you are having problems viewing this HTML email, click to view a Text version.

Application for Boards and Commissions

As an applicant for a Board or Commission, your name, address, and telephone number will be available to the press and the public.			
Please select the Board / Commission you are applying for:			
First choice:	[Planning and Zoning Commission V]		
Second choice:	[Parks and Recreation Commission V]		
Third choice:	[Planning and Zoning Commission V]		
Personal Information			
Name:	Druce A. Reiley		
Address:	6115 Widgeon Court		
Business Phone:	214.461.0866	Home Phone:	972.496.6518
Email Address:	druce@bwc.net		
Occupation:	Principal, Museumscapes LLC		
Education:	Urban Planning and Design, College of Design, Art, Architecture and Planning, University of Cincinnati		
Residency Information			
How long have you lived in Sachse?	8 years		
Are you a registered voter?	[X] Yes [ ] No	Voter Registration Number:	1082137177
Organization Membership Information			
List qualifications you feel make you a good candidate for this position:	educational and practical experience in planning and zoning issues, active cyclist, gardener and advocate of encouraging youth to spend time outdoors in natural settings.		
Professional and/or community activities:	Texas Association of Museums and American Association of State and Local History		
If you are currently serving on a City of Sachse board or commission, which one:	[Select from dropdown list V]		
Service dates (from/to):			
If you have previously served on a City of Sachse board or commission, which one:	[Select from dropdown list V]		
Service dates (from/to):			
By typing my name in the box I certify the above statements to be true and correct and that this information can be used for the purpose of processing my application for service on a Sachse Board and/or Commission.	*Druce A. Reiley*		
Date:	July 28, 2012		
Thank you for your interest. You will be contacted when action is taken on your application.			

Terry Smith

From: support@civicplus.com
Sent: Wednesday, August 01, 2012 1:23 PM
To: Terry Smith; Denise Vice
Subject: Online Form Submittal: Application for Boards and Commissions

If you are having problems viewing this HTML email, click to view a Text version.

Application for Boards and Commissions

As an applicant for a Board or Commission, your name, address, and telephone number will be available to the press and the public.			
Please select the Board / Commission you are applying for:			
First choice:	[Economic Development Corporation Board V]		
Second choice:	[Planning and Zoning Commission V]		
Third choice:	[Animal Shelter Board V]		
Personal Information			
Name:	James "Skip" Schmulbach		
Address:	5924 Meadowcrest Lane		
Business Phone:	972-824-9823	Home Phone:	972-429-6060
Email Address:	jesdasfamily1@msn.com		
Occupation:	Director for Senior Housing		
Education:	B.A Liberal Arts, Major Biology		
Residency Information			
How long have you lived in Sachse?	12 years		
Are you a registered voter?	[X] Yes [ ] No	Voter Registration Number:	1078157678
Organization Membership Information			
List qualifications you feel make you a good candidate for this position:	Lived in Sachse for 12 years. I have a strong business backgroud and management experience. I am connected to the surrounding areas through business and personal friendships. Strong communicationskills and sales background.		
Professional and/or community activities:	Due to my work this has been limited. Senior housing work has been my focus. I am a licensed Assisted Living Director. I used to be a member of the Red Cross.		
If you are currently serving on a City of Sachse board or commission, which one:	[Select from dropdown list V]		
Service dates (from/to):			
If you have previously served on a City of Sachse board or commission, which one:	[Select from dropdown list V]		
Service dates (from/to):			
By typing my name in the box I certify the above statements to be true and correct and that this information can be used for the purpose of processing my application for service on a Sachse Board and/or Commission.	*James Schmulbach*		
Date:	08/01/2012		
Thank you for your interest. You will be contacted when action is taken on your application.			

Sachse City Hall
3815 Sachse Road Building
B
Sachse, Texas 75048

Legislation Details (With Text)

File #:	12-1162	**Version:**	1	**Name:**	2012 City Manager Evaluation
Type:	Agenda Item			**Status:**	Agenda Ready
File created:	10/10/2012			**In control:**	City Council
On agenda:	11/5/2012			**Final action:**	

Title: Adjourn to Executive Session pursuant to the provisions of the Texas Government Code, Section 551.074: To discuss the annual evaluation of the City Manager.

Consider any action necessary as a result of Executive Session regarding the annual evaluation of the City Manager.

Executive Summary
Annual review of the City Manager.

Sponsors:

Indexes:

Code sections:

Attachments:

Date	Ver.	Action By	Action	Result

Title
Adjourn to Executive Session pursuant to the provisions of the Texas Government Code, Section 551.074: To discuss the annual evaluation of the City Manager.

Consider any action necessary as a result of Executive Session regarding the annual evaluation of the City Manager.

Executive Summary
Annual review of the City Manager.

Background
The City Council will evaluate the City Manager annually. Review forms were distributed to the City Council on October 1, 2012.

Policy Considerations
None.

Budgetary Considerations
None.

Staff Recommendations
To conduct the Executive Session as appropriate.

powered by Legistar™