



AGENDA CITY COUNCIL MEETING

December 5, 2024 | 6:30 PM

Council Chambers

City Hall | 665 Country Club Road, Lucas, Texas

Notice is hereby given that a meeting of the Lucas City Council will be held on Thursday, December 5, 2024, beginning at 6:30pm at Lucas City Hall, 665 Country Club Road, Lucas, Texas 75002-7651, at which time the following agenda will be discussed. As authorized by Section 551.071 of the Texas Government Code, the City Council may convene into closed Executive Session for the purpose of seeking confidential legal advice from the City Attorney on any item on the agenda at any time during the meeting. Pursuant to Texas Government Code 551.127, one or more members of the governing body may appear via videoconference call. The presiding officer and a quorum of the City Council will be physically present at this meeting.

If you would like to watch the meeting live, you may go to the City's live streaming link at <https://www.lucastexas.us/departments/public-meetings/>.

How to Provide Input at a Meeting:

Speak In Person: Request to Speak forms will be available at the meeting. Please fill out the form and give to the City Secretary prior to the start of the meeting. This form will also allow a place for comments.

Submit Written Comments: If you are unable to attend a meeting and would like to submit written comments regarding a specific agenda item, email City Secretary Toshia Kimball at tkimball@lucastexas.us by no later than 3:30 pm the day of the meeting. The email must contain the person's name, address, phone number, and the agenda item(s) for which comments will be made. Any requests received after 3:30 pm will not be included at the meeting.

Call to Order

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

Citizen Input

1. Citizen Input.

Community Interest

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

2. Items of Community Interest.

- A. Presentation to the City of Lucas Finance Department for receiving the 2023 Certificate of Achievement for Excellence in Financial Reporting Award from the Government Finance Officers Association.

Consent Agenda

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

3. Consent Agenda:
 - A. Approval of minutes of the November 7, 2024, City Council meeting.
 - B. Approval of the City of Lucas Quarterly Investment Report ended September 2024.

Public Hearing

4. Conduct a public hearing and consider amendments to an existing SUP at Lucas Christian academy to amend the school's master plan at 505 West Lucas Road Lot 1, Block A of Lucas Christian Church Addition being all of a 16 acre tract of land, is asking to incorporate and adjacent tract ABS A0538 JAS LOVELADY SURVEY, TRACT 21, 22.679 ACRES, and a new master plan.
 - A. Presentation by Development Services Director Joe Hilbourn
 - B. Conduct Public Hearing
 - C. Take action on the request
(Presenter: Development Services Director Joe Hilbourn)
5. Conduct a public hearing and consider amendments to the City of Lucas Code of Ordinances, Chapter 14 titled "Zoning", 14.03.472 titles "Building Regulations", (i) Impervious coverage and Article 14.04 titled "Supplementary Regulations", Division 8 titled "Accessory Buildings, Structures and Uses".
 - A. Presentation by Development Services Director Joe Hilbourn
 - B. Conduct Public Hearing
 - C. Take action on the request
(Presenter: Development Services Director Joe Hilbourn)

Regular Agenda

6. Consider authorizing the City Manager to do the following:
 - A. Enter into a state grant agreement with the Texas Parks and Wildlife Department for the Forest Creek Park project, providing funding for the replacement of two playgrounds and a swing set at Forest Creek Park, through the Local Parks Grant Program and to appropriate funding in the amount of \$236,326 from Unrestricted General Fund Reserves to Account 21-8211-502 for said project.
 - B. Negotiate and enter into an agreement with Playground Boss for the installation of playground equipment at Forest Creek Park as outlined in the included quote and in the amount of \$154,039 using funds from Account 21-8211-502.
(Presenter: Capital Improvements Project Manager Patrick Hubbard)
7. Consider authorizing the City Manager to negotiate and enter into an agreement with Curtco Incorporated to complete asphalt crack sealing throughout the City of Lucas in an amount not to exceed \$100,000 using funds from Account 11-8029-301, Improvement Roads. (Presenter: Capital Improvements Manager Patrick Hubbard)

8. Consider authorizing the Mayor to execute the Interlocal Cooperation Agreement For Automatic Fire and EMS Assistance with the City of Wylie, Texas. **(Presenter: Fire Chief Ted Stephens)**
9. Consider Parks and Open Space Board appointments to serve a two-year term beginning on January 1, 2025, and expiring on December 31, 2026, for the following:
 - A. Parks and Open Space Board (also serving as the Lucas Farmers Market Committee)
(City Council)

Executive Session

10. Executive Session:

The City Council will convene into Executive Session pursuant to Section 551.074(a)(1) of the Texas Government Code, Personnel Matters, to deliberate the appointment of members to the Planning and Zoning Commission and the Board of Adjustments.
11. Reconvene from Executive Session and take any action necessary as a result of Executive Session.
12. Adjournment.

Certification

I do hereby certify that the above notice was posted in accordance with the Texas Open Meetings Act on the bulletin board at Lucas City Hall, 665 Country Club Road, Lucas, TX 75002 and on the City's website at www.lucastexas.us on or before 5:00 p.m. on November 29, 2024.

Toshia Kimball, City Secretary

In compliance with the American with Disabilities Act, the City of Lucas will provide for reasonable accommodations for persons attending public meetings at City Hall. Requests for accommodations or interpretive services should be directed to City Secretary Toshia Kimball at 972.912.1211 or by email at tkimball@lucastexas.us at least 48 hours prior to the meeting.



City of Lucas

City Council Agenda Request

December 5, 2024

Item No. 01

Requester: Mayor Dusty Kuykendall

Agenda Item Request

Citizen Input.

Background Information

NA

Attachments/Supporting Documentation

NA

Budget/Financial Impact

NA

Recommendation

NA

Motion

NA



City of Lucas

City Council Agenda Request

December 5, 2024

Item No. 02

Requester: Mayor Dusty Kuykendall

Agenda Item Request

Items of Community Interest:

- A. Presentation to the City of Lucas Finance Department for receiving the 2023 Certificate of Achievement for Excellence in Financial Reporting Award from the Government Finance Officers Association.

Background Information

The City of Lucas has received the Certificate of Achievement for Excellence in Financial Reporting Award for September 30, 2023, Annual Comprehensive Financial Report. This is the 14th year in a row the city has received this award by the Government Finance Officers Association of the United States and Canada (GFOA). The Certificate of Achievement is the highest form of recognition in the area of governmental accounting and financial reporting, and its attainment represents a significant accomplishment by a government entity and its management.

Attachments/Supporting Documentation

NA

Budget/Financial Impact

NA

Recommendation

NA

Motion

There is no motion required for this item, a presentation only will be given.



City of Lucas

City Council Agenda Request

December 5, 2024

Requester: Finance Director Liz Exum
City Secretary Toshia Kimball

Agenda Item Request

Consent Agenda:

- A. Approval of the minutes of November 7, 2024, City Council Meeting.
- B. Approval of the City of Lucas Quarterly Investment Report ended September 2024.

Background Information

N/A

Attachments/Supporting Documentation

- 1. Minutes of November 7, 2024, City Council Meeting
- 2. City of Lucas Quarterly Investment Report ended September 2024

Budget/Financial Impact

N/A

Recommendation

City staff recommends approval of the Consent Agenda.

Motion

I make a motion to approve the Consent Agenda as presented.



CITY COUNCIL REGULAR MEETING

November 7, 2024 | 6:30 PM

Council Chambers

City Hall | 665 Country Club Road, Lucas, Texas

City Councilmembers Present:

Mayor Dusty Kuykendall
Mayor Pro Tem Debbie Fisher
Councilmember Chris Bierman
Councilmember Tim Johnson
Councilmember Phil Lawrence

City Staff Present:

City Manager John Whitsell
City Secretary Toshia Kimball
Development Services Director Joe Hilbourn
CIP Manager Patrick Hubbard
Deputy Nick Noel

City Councilmembers Absent:

Councilmember Neil Peterson
Councilmember Brian Stubblefield

The regular City Council meeting was called to order at 6:31 pm.

Citizen Input

1. Citizen Input

There was no citizen input at this meeting.

Community Interest

2. Items of Community Interest

Mayor Kuykendall gave items of community interest including:

- Holiday Donation Drive – November 4, 2024 – December 9, 2024
- Country Christmas – December 6, 2024, 6pm -9pm (Lucas Community Park)
- Service Tree Nominations – Due by December 27, 2024

City Manager John Whitsell notified City Council that there will not be a November 21, 2024, City Council meeting.

Councilmember Johnson provided an update on the Sunday November 3, 2024, Friends of Lucas Fire-Rescue Bingo Fundraiser at Tupps Brewery in McKinney, Texas. There were over 40 players and over \$1,000 was raised.

Consent Agenda

3. Consent Agenda:

A. Approval of the minutes of the October 17, 2024, City Council meeting.

MOTION: A motion was made by Mayor Pro Tem Fisher, seconded by Councilmember Lawrence to approve the Consent Agenda Item as presented. The motion passed unanimously by a 5 to 0 vote.

Regular Agenda

4. To discuss installation of a traffic signal at Stinson Road/Parker Road.

Councilmember Tim Johnson presented.

Greg Jacobs 1415 Ford Lane, Lucas, Texas 75002, requested that the city ask TxDot for a signal warrant study at Blondy June and Country Club.

There is no motion required on this item. City Council directed staff to request a TxDot signal study at Stinson and Parker Road.

5. Consider authorizing the City Manager to negotiate and enter into an agreement with JTG Engineering to provide professional services in the amount of \$58,960 for the design of the McGarity Pump Station Ground Storage Tank Repaint Project and to transfer \$58,960 from Unrestricted Water Fund Reserves to account number 21-8210-490.136 for said project.

MOTION: A motion was made by Councilmember Johnson, seconded by Mayor Kuykendall to approve authorizing the City Manager to negotiate and enter into an agreement with JTG Engineering to provide professional services in the amount of \$58,960 for the design of the McGarity Pump Station Ground Storage Tank Repaint Project and to transfer \$58,960 from Unrestricted Water Fund Reserves to account number 21-8210-490.136 for said project. The motion passed unanimously by a 5 to 0 vote.

6. Provide staff direction on scheduling a Strategic Planning Session.

There is no motion required on this item. City Council requested that staff hold the strategic planning session on a Sunday afternoon and subsequent Monday.

7. Discuss and take possible action to approve Resolution # R 2024-11-00562 authorizing the submittal of a TxCDBG application, committing to providing a \$75,000 match, and committing to following program guidelines.

MOTION: A motion was made by Mayor Kuykendall, seconded by Councilmember Lawrence to approve Resolution # 2024-11-00562 to authorize submittal of a TxCDBG application, committing to providing a \$75,000 match, and committing to following program guidelines. The motion passed unanimously by a 5 to 0 vote.

8. Consider approving Resolution R 2023-11-00547 and cast votes for Collin Central Appraisal District Board of Directors.

MOTION: A motion was made by Mayor Kuykendall, seconded by Councilmember Lawrence to approve Resolution # R 2024-11-00563 and cast votes for Marvin Bobo to the Collin County Central Appraisal District Board of Directors. The motion passed unanimously by a 5 to 0 vote.

Executive Session

9. Executive Session:

As authorized by Section 551.071 of the Texas Government Code, the City Council may convene into closed Executive Session for the purpose of seeking confidential legal advice from the City Attorney regarding any item on the agenda at any time during the meeting. This meeting is closed to the public as provided in the Texas Government Code.

There was no executive session during this meeting.

10. Reconvene from Executive Session and take any action necessary as a result of the Executive Session.

There was no executive session during this meeting.

11. Adjournment.

MOTION: A motion was made by Mayor Kuykendall, seconded by Councilmember Lawrence, to adjourn the meeting at 7:07 pm. The motion passed unanimously by a 5 to 0 vote.

APPROVED:

ATTEST:

Mayor Dusty Kuykendall

Toshia Kimball, City Secretary

CITY OF LUCAS QUARTERLY INVESTMENT REPORT

Quarter Ended
September 2024

Bank Account Name	Rating	June 30, 2024	September 30, 2024	Changes	Total Portfolio
ANB Pooled Cash	AAAm	\$3,710,182.91	\$4,978,880.02	\$1,268,697.11	10.01%
Interest Rate		0.11%	4.00%	3.89%	
ANB - Reserve	AAAm	\$4,000,000.00	\$4,018,817.88	\$18,817.88	8.08%
General Fund		0%	4.00%	4.00%	
Weighted Average Life/Days (Balances assumed to have a one day maturity)		1	1		
Total Bank Accounts		\$7,710,182.91	\$8,997,697.90	\$1,287,515.07	18.10%
Pools					
Logic - General Fund	AAAm	\$6,853,374.78	\$6,961,427.75	\$108,052.97	14.00%
Logic - Water Fund	AAAm	\$8,154,247.86	\$10,644,944.25	\$2,490,696.39	21.41%
Logic 2017 CO - Water Fund	AAAm	\$451,864.47	\$0.00	-\$451,864.47	0.00%
Logic 2019 CO - General Fund	AAAm	\$6,588,959.09	\$6,678,022.54	\$89,063.45	13.43%
Logic 2019 CO - Water Fund	AAAm	\$1,620,793.33	\$1,033,710.30	-\$587,083.03	2.08%
Logic West Lucas Road	AAAm	\$2,834,940.56	\$2,857,845.27	\$22,904.71	5.75%
Logic America Rescue Plan (ARPA)	AAAm	\$1,295,993.01	\$0.00	-\$1,295,993.01	0.00%
Logic West Lucas Road - RTR	AAAm	\$7,607,890.14	\$7,710,726.55	\$102,836.41	15.51%
Interest Rate		5.4105%	5.2340%	-0.1765%	
Weighted Average Life/Days (Balances assumed to have a one day maturity)		1	1		
Lone Star Invest - General Fund	AAAm	\$2,258,805.03	\$2,288,882.78	\$30,077.75	4.60%
Lone Star Invest- Water Fund	AAAm	\$845,640.59	\$856,900.95	\$11,260.36	1.72%
Interest Rate		5.3308%	5.1719%	-0.1589%	
Weighted Average Life/Days (Balances assumed to have a one day maturity)		1	1	0	
Tex Pool - Debt Service Fund	AAAm	\$1,844,726.18	\$1,684,929.68	-\$159,796.50	3.39%
Interest Rate		5.3161%	5.1637%	-0.1524%	
Weighted Average Life/Days (Balances assumed to have a one day maturity)		1	1	0	
Total Pools		\$40,357,235.04	\$40,717,390.07	\$360,155.03	81.90%
Total Bank Acct. and Pools		\$48,067,417.95	\$49,715,087.97	\$1,647,670.10	100.00%

The invested portfolio of the City of Lucas is in compliance with the Public Funds Investment Act and the City's Investment Policy and Strategies.


John Whitsell - City Manager


Liz Exum - Finance Director



City of Lucas City Council Agenda Request December 5, 2024

Requester: Development Services Director Joe Hilbourn

Agenda Item

Conduct a public hearing and consider amendments to an existing SUP at Lucas Christian Academy to amend the school's master plan at 505 West Lucas Road Lot 1, Block A of Lucas Christian Church Addition being all of a 16 acre tract of land, is asking to incorporate an adjacent tract ABS A0538 JAS LOVELADY SURVEY, TRACT 21, 22.679 ACRES, and a new master plan.

- A. Presentation by Development Services Director Joe Hilbourn
- B. Conduct Public Hearing
- C. Take action on the request

Background Information

Lucas Christian Academy is an existing private school located on West Lucas Road. This will be the 4th amendment to the master plan. The first SUP was submitted in 2004, the plan was amended in 2009, 2011, and again when the school was built in 2014. Lucas Christian Academy has been a good addition to the community. Kimley Horn is making application on behalf of Lucas Christian Academy.

Kimley-Horn respectfully submits this written letter of intent for a formal review of the submitted SUP amendment. The subject property has an existing Specific Use Permit (SUP) overlay with a base zoning of R2 Single Family. The applicant is proposing to amend the existing SUP for Lot 1, Block A and create a new conceptual masterplan for the property that incorporates the adjacent 22.61-acre parcel owned by James and Lee Irwin Family Limited Partnership. The subject property is an existing educational facility and is surrounded by vacant land to the west, residential to the south, a church within the SUP and a residential use to the east. The proposed development and revised masterplan include the expansion of educational and athletic facilities, as well as the extension of Stinson Road through the property, per the City master thoroughfare plan amendment currently in progress. This expansion to the existing Lucas Christian Academy campus will provide important and complimentary services to the nearby residents, students, and visitors, as well as provide additional academic classrooms and support facilities. The proposed Stinson Road extension will run north-south between FM1378 and existing Stinson Road to the south of the parcel. A signalized intersection is proposed at the intersection of the future Stinson Road extension and FM 1378. The two additional access drives to the property will remain in their existing locations. The project proposes additional access off the proposed Stinson Road extension.



City of Lucas

City Council Agenda Request

December 5, 2024

Attachments/Supporting Documentation

1. LCA Conceptual Master Plan
2. Notice of Public Hearing
3. Meets and bounds proposed addition
4. Legal Description existing facilities
5. Tree Inventory spread sheet
6. Written statement of intent
7. Zoning app signed by Owner
8. Zoning app signed by LCA
9. Tree inventory map
10. Application check list
11. 2004 SUP
12. 2009 SUP
13. 2011 SUP
14. Traffic Impact Analysis

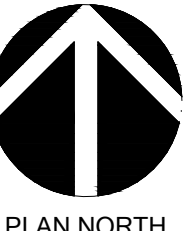
Budget/Financial Impact

NA

Recommendation

Motion

I make a motion to approve/deny amendments to an existing SUP at Lucas Christian academy to amend the school's master plan at 505 West Lucas Road Lot 1, Block A of Lucas Christian Church Addition being all of a 16 acre tract of land, is asking to incorporate an adjacent tract ABS A0538 JAS LOVELADY SURVEY, TRACT 21, 22.679 ACRES, and a new master plan.





NOTICE OF PUBLIC HEARING

Notice is hereby given, that the Planning & Zoning Commission of the City of Lucas, Texas will hold a public hearing on Thursday, November 14, 2024 at 6:30 p.m. and City Council will conduct a second public hearing on Thursday, December 5, 2024 at 6:30 p.m. at Lucas City Hall, 665 Country Club, Lucas, Texas to consider amending an existing SUP to amend the school's master plan more particularly described as follows:

Gavin Newman, representing Lucas Christian Academy is requesting an amendment to an existing SUP for Lucas Christian Academy located at ABS A0538 JAS LOVELADY SURVEY, TRACT 22 being 15.8750 acres of land to amend the school's master plan on a parcel of land to include an additional 22.679 acres of land (ABS A0538 JAS LOVELADY SURVEY, TRACT 21) adjacent to the existing facilities for a total of 44.779 +/- acres of land.

Otherwise known as 415 W Lucas Road (6.23 acres), 505 West Lucas Road (15.87 acres) and Tract 21 (22.679 acres) of A0538 JAS LOVELADY SURVEY, Lucas, Texas, 75002.

Those wishing to speak FOR or AGAINST the above item are invited to attend. If you are unable to attend and have comments you may send them to City of Lucas, Attention: City Secretary, Toshia Kimball, 665 Country Club Road, Lucas, Texas 75002, email tkimball@lucastexas.us and it will be presented at the hearing. If you have any questions about the above hearing, you may contact Development Services Director Joe Hilbourn at jhilbourn@lucastexas.us.

EXHIBIT "A"
ZONING DESCRIPTION
JAMES AND LEE IRWIN FAMILY LIMITED PARTNERSHIP
REFERENCE THE GENERAL WARRANTY DEED
INSTRUMENT NO. 20210301000398820, O.P R.C.C.T.

Being a tract of land, situated in the James Lovelady Survey, Abstract No. 538, in the City of Lucas, Collin County, Texas, and being all of that called 22.661 acre tract of land, described by deed to Gus Gibson, Jr. and Walter G. Bedell, as recorded in Volume 1889, Page 283, of the Deed Records, Collin County, Texas (D.R.C.C.T.), said tract being more particularly described, as follows:

BEGINNING at a 1/2" iron rod with a yellow plastic cap stamped "RPLS 5686" found for the northwesterly corner of said 22.661 acre tract, same being the northeasterly corner of a tract of land, described by deed to Chris Koerner and Jessica Koerner, as recorded under Document No. 20160725000950450, of the Official Public Records, Collin County, Texas (O.P.R.C.C.T.), same being in the southerly monumented line of W. Lucas Road (FM. 1378);

THENCE South 89°43'16" East, along said southerly monumented line of W. Lucas, Road, a distance of 739.61' to a 5/8" iron rod found for the northeasterly corner of said 22.661 acre tract, same being the northwesterly corner of a right-of-way dedication, dedicated by plat recorded in Vol. 2009, Pg. 224, O.P.R.C.C.T. (LUCAS CHURCH ADDITION);

THENCE South 00°19'15" East, along the common line between said 22.661 acre tract and said LUCAS CHURCH ADDITION, passing a 1/2" iron rod found for the northwesterly corner of Lot 1, Block A, of said LUCAS CHURCH ADDITION, at a distance of 15.00', and continuing in all, a total distance of 1283.67' to a point for corner, being the southeasterly corner of said 22.661 acre tract, same being in the northerly line of Lot 3, of HI FLYIN' ACRES, an addition to the City of Parker, as recorded in Volume J, Page 929, of the Map Records, Collin County, Texas (M.R.C.C.T.), from which a 5/8" iron rod found bears, South 00°34'04" East, a distance of 3.60';

THENCE North 89°38'41" West, along the southerly line of said 22.661 acre tract, same being along the northerly line of said Lot 3, passing a 1/2" iron rod found, at a distance of 212.71', for the northwesterly corner of said Lot 3, same being the northeasterly corner of Lot 2, of said HI FLYIN' ACRES, and continuing along the northerly line of said Lot 2, a total distance of 516.44' to a 1/2" iron rod with a yellow plastic cap stamped "RPLS 5686" set for the northwesterly corner of said Lot 2;

THENCE North 89°49'30" West, along the southerly line of said 22.661 acre tract, a distance of 283.67' to a 1" iron rod found for the southwesterly corner of said 22.661 acre tract, same being on the southerly side of Stinson Road, said corner also being the southeasterly corner of a tract of land, described by deed to Adagio Investments, Inc., as recorded under Document No. 20180111000049020, O.P.R.C.C.T.;

THENCE North 02°22'44" East, along the westerly line of said 22.661 acre, same being the easterly line of said Adagio Investments, LLC tract, passing a 1/2" iron rod found, at a distance of 44.70' and continuing a distance of 390.43' (total easterly line of said Adagio tract: 435.13') a 1/2" iron rod found for the northeasterly corner of said Adagio Investments, LLC tract, same being the southeasterly corner of the aforementioned Koerner tract, and continuing, in all, a total distance of 1284.29 to the POINT OF BEGINNING and containing 987,894 square feet or 22.679 acres of land, more or less.

Note:

This document was prepared under 22 TAC §138.95, does not reflect the results of an on the ground survey, and is not to be used to convey or establish interests in real property except those rights and interests implied or established by the creation or reconfiguration of the boundary of the political subdivision for which it was prepared.

EXHIBIT "A"
ZONING DESCRIPTION
LUCAS CHRISTIAN CHURCH ADDITION

Lot 1, Block A of **Lucas Christian Church Addition**, an addition to the City of Lucas according to the amending plat thereof recorded in Volume 2009, Page 224 and in Instrument No. 20090609010001430 of the Official Public Records of Collin County, Texas.

Note:

This document was prepared under 22 TAC §138.95, does not reflect the results of an on the ground survey, and is not to be used to convey or establish interests in real property except those rights and interests implied or established by the creation or reconfiguration of the boundary of the political subdivision for which it was prepared.

LCA Master Tree - Tree Inventory
Lucas, Collin County, Texas

TAG#	DBH	COMMON NAME	SCIENTIFIC NAME	CONDITION	MULTIPLE-STEMMED
2001	10.0	hackberry	<i>Celtis laevigata</i>	Healthy	Forked
2002	4.7	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2003	11.8	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2004	5.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2005	6.7	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2006	6.3	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2007	16.9	hackberry	<i>Celtis laevigata</i>	Healthy	Forked
2008	11.3	hackberry	<i>Celtis laevigata</i>	Healthy	Forked
2009	8.5	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2010	5.5	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2011	16.6	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2012	13.7	hackberry	<i>Celtis laevigata</i>	Healthy	Forked
2013	7.1	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2014	10.6	hackberry	<i>Celtis laevigata</i>	Healthy	Forked
2015	6.2	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2016	15.1	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2017	4.6	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2018	11.1	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2019	10.4	hackberry	<i>Celtis laevigata</i>	Healthy	Forked
2020	15.9	hackberry	<i>Celtis laevigata</i>	Declining	Forked
2021	10.6	hackberry	<i>Celtis laevigata</i>	Healthy	Forked
2022	11.2	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2023	7.5	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2024	6.4	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2025	13.9	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2026	7.2	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2027	8.1	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2028	16.8	American Elm	<i>Ulmus americana</i>	Healthy	Forked
2029	10.8	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2030	10.4	hackberry	<i>Celtis laevigata</i>	Healthy	Forked
2031	14.3	hackberry	<i>Celtis laevigata</i>	Healthy	Forked
2032	15.7	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2033	6.3	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2034	10.5	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2035	10.6	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2036	7.9	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2037	9.9	eastern redcedar	<i>Juniperus virginiana</i>	Healthy	Multi
2038	10.8	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2039	7.2	hackberry	<i>Celtis laevigata</i>	Healthy	Forked
2040	7.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2041	9.7	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2042	6.2	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2043	5.3	hackberry	<i>Celtis laevigata</i>	Healthy	Forked
2044	9.2	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2045	6.1	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2046	4.9	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2047	5.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2048	11.6	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2049	5.7	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2050	5.5	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2051	6.1	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2052	8.6	eastern redcedar	<i>Juniperus virginiana</i>	Healthy	Single
2053	7.1	hackberry	<i>Celtis laevigata</i>	Healthy	Multi

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TAG#	DBH	COMMON NAME	SCIENTIFIC NAME	CONDITION	MULTIPLE-STEMMED
2054	4.5	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2055	8.2	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2056	4.8	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2057	8.8	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2058	7.7	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2059	4.9	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2060	4.5	hackberry	<i>Celtis laevigata</i>	Healthy	Forked
2061	6.8	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2062	8.7	hackberry	<i>Celtis laevigata</i>	Healthy	Forked
2063	8.8	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2064	4.6	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2065	14.2	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2066	4.6	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2067	11.6	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2068	5.6	hackberry	<i>Celtis laevigata</i>	Healthy	Forked
2069	5.7	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2070	16.0	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2071	5.6	hackberry	<i>Celtis laevigata</i>	Healthy	Forked
2072	5.5	hackberry	<i>Celtis laevigata</i>	Healthy	Forked
2073	9.0	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2074	5.6	chittamwood	<i>Sideroxylon lanuginosum</i>	Healthy	Single
2075	10.0	hackberry	<i>Celtis laevigata</i>	Healthy	Forked
2076	5.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2077	5.1	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2078	9.5	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2079	4.9	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2080	6.4	Hercules-club	<i>Zanthoxylum clava-herculis</i>	Healthy	Single
2081	9.5	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2082	6.2	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2083	5.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2084	8.0	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2085	9.3	hackberry	<i>Celtis laevigata</i>	Healthy	Forked
2086	9.1	hackberry	<i>Celtis laevigata</i>	Healthy	Forked
2087	7.9	chittamwood	<i>Sideroxylon lanuginosum</i>	Healthy	Multi
2088	4.6	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2089	9.0	hackberry	<i>Celtis laevigata</i>	Healthy	Forked
2090	12.0	Chinese elm	<i>Ulmus parvifolia</i>	Healthy	Forked
2091	5.2	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2092	7.4	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2093	18.6	slippery elm	<i>Ulmus rubra</i>	Healthy	Forked
2094	5.2	slippery elm	<i>Ulmus rubra</i>	Healthy	Single
2095	4.6	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2096	9.0	hackberry	<i>Celtis laevigata</i>	Healthy	Forked
2097	8.5	hackberry	<i>Celtis laevigata</i>	Healthy	Forked
2098	7.8	hackberry	<i>Celtis laevigata</i>	Healthy	Forked
2099	4.5	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2100	9.7	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2101	5.9	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2102	8.2	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2103	12.6	hackberry	<i>Celtis laevigata</i>	Healthy	Forked
2104	10.2	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2105	4.5	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2106	8.0	hackberry	<i>Celtis laevigata</i>	Healthy	Forked

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TAG#	DBH	COMMON NAME	SCIENTIFIC NAME	CONDITION	MULTIPLE-STEMMED
2107	8.1	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2108	7.5	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2109	14.1	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2110	5.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2111	11.1	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2112	5.7	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2113	12.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2114	20.6	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2115	8.3	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2116	15.7	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2117	8.5	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2118	6.0	eastern redcedar	<i>Juniperus virginiana</i>	Healthy	Single
2119	10.3	hackberry	<i>Celtis laevigata</i>	Healthy	Forked
2120	12.7	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2121	18.3	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2122	26.9	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2123	6.7	Hercules-club	<i>Zanthoxylum clava-herculis</i>	Healthy	Single
2124	6.5	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2125	13.8	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2126	7.0	hackberry	<i>Celtis laevigata</i>	Declining	Single
2127	8.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2128	23.4	Osage-orange	<i>Maclura pomifera</i>	Healthy	Multi
2129	9.9	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2130	14.9	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2131	8.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2132	6.5	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2133	10.8	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2134	6.1	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2135	29.5	hackberry	<i>Celtis laevigata</i>	Healthy	Forked
2136	10.1	Osage-orange	<i>Maclura pomifera</i>	Healthy	Single
2137	9.7	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2138	11.0	Osage-orange	<i>Maclura pomifera</i>	Healthy	Forked
2139	7.4	Osage-orange	<i>Maclura pomifera</i>	Declining	Single
2140	8.8	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2141	10.6	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2142	26.8	slippery elm	<i>Ulmus rubra</i>	Healthy	Multi
2143	8.4	slippery elm	<i>Ulmus rubra</i>	Healthy	Single
2144	24.4	Osage-orange	<i>Maclura pomifera</i>	Declining	Multi
2145	15.7	slippery elm	<i>Ulmus rubra</i>	Healthy	Multi
2146	17.9	hackberry	<i>Celtis laevigata</i>	Declining	Single
2147	29.3	American Elm	<i>Ulmus americana</i>	Declining	Multi
2148	9.0	hackberry	<i>Celtis laevigata</i>	Declining	Single
2149	15.2	hackberry	<i>Celtis laevigata</i>	Declining	Single
2150	11.6	Osage-orange	<i>Maclura pomifera</i>	Healthy	Forked
2151	10.8	American Elm	<i>Ulmus americana</i>	Declining	Single
2152	8.0	American Elm	<i>Ulmus americana</i>	Healthy	Single
2153	19.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2154	13.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2155	13.1	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2156	7.0	eastern redcedar	<i>Juniperus virginiana</i>	Healthy	Single
2157	19.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2158	7.6	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2159	20.4	hackberry	<i>Celtis laevigata</i>	Healthy	Multi

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TAG#	DBH	COMMON NAME	SCIENTIFIC NAME	CONDITION	MULTIPLE-STEMMED
2160	10.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2161	5.9	hackberry	<i>Celtis laevigata</i>	Declining	Single
2162	11.7	black willow	<i>Salix nigra</i>	Declining	Single
2163	6.4	Osage-orange	<i>Maclura pomifera</i>	Healthy	Single
2164	11.3	black willow	<i>Salix nigra</i>	Healthy	Single
2165	8.0	black willow	<i>Salix nigra</i>	Declining	Single
2166	32.1	hackberry	<i>Celtis laevigata</i>	Healthy	Forked
2167	22.4	black willow	<i>Salix nigra</i>	Healthy	Multi
2168	7.8	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2169	7.1	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2170	11.2	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2171	15.0	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2172	10.4	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2173	8.9	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2174	6.7	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2175	7.9	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2176	6.8	American Elm	<i>Ulmus americana</i>	Healthy	Single
2177	21.3	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2178	20.8	hackberry	<i>Celtis laevigata</i>	Declining	Multi
2179	5.8	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2180	20.8	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2181	8.2	eastern redcedar	<i>Juniperus virginiana</i>	Healthy	Single
2182	10.4	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2183	14.4	hackberry	<i>Celtis laevigata</i>	Healthy	Forked
2184	36.2	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2185	14.3	Osage-orange	<i>Maclura pomifera</i>	Healthy	Single
2186	13.7	hackberry	<i>Celtis laevigata</i>	Hazard	Single
2187	6.0	hackberry	<i>Celtis laevigata</i>	Declining	Single
2188	7.2	hackberry	<i>Celtis laevigata</i>	Declining	Single
2189	32.8	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2190	9.5	hackberry	<i>Celtis laevigata</i>	Declining	Single
2191	13.6	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2192	13.4	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2193	15.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2194	8.5	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2195	8.6	eastern redcedar	<i>Juniperus virginiana</i>	Healthy	Single
2196	13.8	chittamwood	<i>Sideroxylon lanuginosum</i>	Healthy	Forked
2197	20.4	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2198	6.1	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2199	31.8	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2200	17.4	hackberry	<i>Celtis laevigata</i>	Healthy	Forked
2201	6.1	bald cypress	<i>Taxodium distichum</i>	Healthy	Single
2202	5.2	bald cypress	<i>Taxodium distichum</i>	Healthy	Single
2203	6.4	bald cypress	<i>Taxodium distichum</i>	Healthy	Single
2204	8.2	Chinese elm	<i>Ulmus parvifolia</i>	Healthy	Single
2205	6.1	bald cypress	<i>Taxodium distichum</i>	Healthy	Single
2206	7.6	bald cypress	<i>Taxodium distichum</i>	Healthy	Single
2207	8.0	bald cypress	<i>Taxodium distichum</i>	Healthy	Single
2208	4.9	bald cypress	<i>Taxodium distichum</i>	Healthy	Single
2209	6.3	Chinese elm	<i>Ulmus parvifolia</i>	Healthy	Single
2210	8.5	Chinese pistache	<i>Pistacia chinensis</i>	Healthy	Single
2211	9.3	Chinese pistache	<i>Pistacia chinensis</i>	Healthy	Single
2212	5.9	Chinese pistache	<i>Pistacia chinensis</i>	Healthy	Single

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TAG#	DBH	COMMON NAME	SCIENTIFIC NAME	CONDITION	MULTIPLE- STEMMED
2213	9.3	Chinese pistache	<i>Pistacia chinensis</i>	Healthy	Single
2214	7.0	Chinese pistache	<i>Pistacia chinensis</i>	Healthy	Single
2215	9.0	Chinese pistache	<i>Pistacia chinensis</i>	Healthy	Single
2216	7.1	Chinese pistache	<i>Pistacia chinensis</i>	Healthy	Single
2217	6.5	Chinese pistache	<i>Pistacia chinensis</i>	Healthy	Single
2218	9.6	Chinese pistache	<i>Pistacia chinensis</i>	Healthy	Single
2219	5.7	bur oak	<i>Quercus macrocarpa</i>	Healthy	Single
2220	15.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2221	12.1	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2222	13.5	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2223	8.2	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2224	11.2	pecan	<i>Carya illinoensis</i>	Healthy	Single
2225	10.9	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2226	10.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2227	7.9	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2228	25.8	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2229	8.1	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2230	10.2	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2231	11.5	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2232	4.5	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2233	10.7	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2234	15.2	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2235	24.9	pecan	<i>Carya illinoensis</i>	Declining	Single
2236	15.4	hackberry	<i>Celtis laevigata</i>	Healthy	Forked
2237	14.2	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2238	12.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2239	6.5	pecan	<i>Carya illinoensis</i>	Healthy	Single
2240	5.4	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2241	7.6	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2242	8.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2243	7.3	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2244	31.2	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2245	20.4	American Elm	<i>Ulmus americana</i>	Healthy	Forked
2246	5.9	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2247	11.9	hackberry	<i>Celtis laevigata</i>	Healthy	Forked
2248	7.6	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2249	9.9	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2250	6.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2251	7.2	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2252	9.2	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2253	13.1	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2254	10.1	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2255	9.3	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2256	10.4	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2257	7.2	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2258	10.4	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2259	8.7	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2260	6.3	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2261	8.2	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2262	16.0	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2263	8.9	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2264	30.2	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2265	19.6	hackberry	<i>Celtis laevigata</i>	Healthy	Single

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TAG#	DBH	COMMON NAME	SCIENTIFIC NAME	CONDITION	MULTIPLE- STEMMED
2266	25.8	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2267	23.5	hackberry	<i>Celtis laevigata</i>	Declining	Single
2268	10.8	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2269	10.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2270	8.3	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2271	9.6	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2272	8.0	Chinese pistache	<i>Pistacia chinensis</i>	Healthy	Single
2273	8.8	Chinese pistache	<i>Pistacia chinensis</i>	Healthy	Single
2274	7.4	Chinese elm	<i>Ulmus parvifolia</i>	Healthy	Single
2275	6.2	Chinese elm	<i>Ulmus parvifolia</i>	Healthy	Single
2276	5.7	Chinese elm	<i>Ulmus parvifolia</i>	Healthy	Single
2277	5.6	Chinese elm	<i>Ulmus parvifolia</i>	Healthy	Single
2278	10.1	Chinese elm	<i>Ulmus parvifolia</i>	Healthy	Forked
2279	5.9	bur oak	<i>Quercus macrocarpa</i>	Healthy	Single
2280	5.2	bur oak	<i>Quercus macrocarpa</i>	Healthy	Single
2281	5.0	bur oak	<i>Quercus macrocarpa</i>	Healthy	Single
2282	5.8	bur oak	<i>Quercus macrocarpa</i>	Healthy	Single
2283	5.1	bur oak	<i>Quercus macrocarpa</i>	Healthy	Single
2284	23.2	black willow	<i>Salix nigra</i>	Healthy	Multi
2285	18.5	black willow	<i>Salix nigra</i>	Healthy	Multi
2286	5.2	eastern redcedar	<i>Juniperus virginiana</i>	Healthy	Single
2287	10.9	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2288	7.1	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2289	10.0	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2290	9.4	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2291	9.7	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2292	6.7	hackberry	<i>Celtis laevigata</i>	Declining	Single
2293	9.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2294	7.1	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2295	11.7	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2296	9.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2297	9.1	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2298	8.3	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2299	6.7	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2300	4.6	slippery elm	<i>Ulmus rubra</i>	Healthy	Single
2301	7.3	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2302	10.0	hackberry	<i>Celtis laevigata</i>	Healthy	Forked
2303	7.2	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2304	12.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2305	7.7	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2306	6.2	eastern redcedar	<i>Juniperus virginiana</i>	Healthy	Single
2307	7.1	eastern redcedar	<i>Juniperus virginiana</i>	Healthy	Single
2308	6.7	eastern redcedar	<i>Juniperus virginiana</i>	Healthy	Single
2309	7.2	eastern redcedar	<i>Juniperus virginiana</i>	Healthy	Forked
2310	6.3	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2311	9.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2312	5.7	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2313	5.1	eastern redcedar	<i>Juniperus virginiana</i>	Healthy	Forked
2314	6.3	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2315	5.8	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2316	6.9	eastern redcedar	<i>Juniperus virginiana</i>	Healthy	Single
2317	6.5	eastern redcedar	<i>Juniperus virginiana</i>	Healthy	Single
2318	5.9	hackberry	<i>Celtis laevigata</i>	Healthy	Single

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TAG#	DBH	COMMON NAME	SCIENTIFIC NAME	CONDITION	MULTIPLE- STEMMED
2319	5.8	eastern redcedar	<i>Juniperus virginiana</i>	Healthy	Single
2320	9.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2321	5.5	eastern redcedar	<i>Juniperus virginiana</i>	Healthy	Single
2322	5.0	eastern redcedar	<i>Juniperus virginiana</i>	Healthy	Single
2323	8.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2324	5.1	eastern redcedar	<i>Juniperus virginiana</i>	Healthy	Forked
2325	7.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2326	5.9	eastern redcedar	<i>Juniperus virginiana</i>	Healthy	Multi
2327	7.9	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2328	5.3	eastern redcedar	<i>Juniperus virginiana</i>	Healthy	Single
2329	5.0	eastern redcedar	<i>Juniperus virginiana</i>	Healthy	Single
2330	5.3	eastern redcedar	<i>Juniperus virginiana</i>	Healthy	Single
2331	5.4	eastern redcedar	<i>Juniperus virginiana</i>	Healthy	Single
2332	8.8	eastern redcedar	<i>Juniperus virginiana</i>	Healthy	Multi
2333	5.9	eastern redcedar	<i>Juniperus virginiana</i>	Healthy	Single
2334	4.8	eastern redcedar	<i>Juniperus virginiana</i>	Healthy	Single
2335	5.1	eastern redcedar	<i>Juniperus virginiana</i>	Healthy	Single
2336	4.5	eastern redcedar	<i>Juniperus virginiana</i>	Healthy	Single
2337	10.2	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2338	5.1	Hercules-club	<i>Zanthoxylum clava-herculis</i>	Healthy	Single
2339	8.3	Hercules-club	<i>Zanthoxylum clava-herculis</i>	Healthy	Forked
2340	5.9	eastern redcedar	<i>Juniperus virginiana</i>	Healthy	Single
2341	7.6	eastern redcedar	<i>Juniperus virginiana</i>	Healthy	Single
2342	11.5	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2343	4.9	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2344	5.0	Hercules-club	<i>Zanthoxylum clava-herculis</i>	Healthy	Single
2345	25.2	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2346	23.8	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2347	7.3	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2348	6.3	Hercules-club	<i>Zanthoxylum clava-herculis</i>	Healthy	Single
2349	17.2	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2350	13.5	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2351	14.0	hackberry	<i>Celtis laevigata</i>	Healthy	Forked
2352	16.2	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2353	4.8	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2354	7.7	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2355	5.0	hackberry	<i>Celtis laevigata</i>	Healthy	Forked
2356	8.4	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2357	12.2	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2358	9.2	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2359	16.4	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2360	5.5	live oak	<i>Quercus virginiana</i>	Healthy	Forked
2361	7.6	live oak	<i>Quercus virginiana</i>	Healthy	Single
2362	10.0	live oak	<i>Quercus virginiana</i>	Healthy	Forked
2363	10.9	live oak	<i>Quercus virginiana</i>	Healthy	Multi
2364	7.2	Chinese pistache	<i>Pistacia chinensis</i>	Healthy	Forked
2365	24.9	hackberry	<i>Celtis laevigata</i>	Healthy	Forked
2366	18.4	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2367	17.4	hackberry	<i>Celtis laevigata</i>	Healthy	Forked
2368	33.9	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2369	6.2	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2370	22.3	hackberry	<i>Celtis laevigata</i>	Declining	Single
2371	5.1	Osage-orange	<i>Maclura pomifera</i>	Healthy	Single

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TAG#	DBH	COMMON NAME	SCIENTIFIC NAME	CONDITION	MULTIPLE-STEMMED
2372	4.6	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2373	5.1	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2374	7.7	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2375	9.2	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2376	6.9	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2377	5.6	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2378	4.8	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2379	5.5	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2380	6.8	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2381	8.0	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2382	6.5	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2383	5.9	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2384	7.2	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2385	8.1	Osage-orange	<i>Maclura pomifera</i>	Healthy	Multi
2386	5.1	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2387	5.6	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2388	7.2	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2389	6.6	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2390	4.9	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2391	7.1	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2392	4.6	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2393	6.9	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2394	7.9	Osage-orange	<i>Maclura pomifera</i>	Healthy	Single
2395	11.6	American Elm	<i>Ulmus americana</i>	Healthy	Single
2396	17.3	American Elm	<i>Ulmus americana</i>	Healthy	Single
2397	23.4	Osage-orange	<i>Maclura pomifera</i>	Healthy	Multi
2398	17.5	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2399	15.1	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2400	10.0	American Elm	<i>Ulmus americana</i>	Healthy	Single
2401	13.0	American Elm	<i>Ulmus americana</i>	Healthy	Single
2402	17.8	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2403	15.8	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2404	12.0	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2405	7.7	Osage-orange	<i>Maclura pomifera</i>	Declining	Single
2406	7.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2407	13.5	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2408	13.1	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2409	9.7	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2410	10.7	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2411	10.2	American Elm	<i>Ulmus americana</i>	Healthy	Single
2412	26.5	hackberry	<i>Celtis laevigata</i>	Declining	Multi
2413	7.2	hackberry	<i>Celtis laevigata</i>	Declining	Single
2414	21.6	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2415	12.6	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2416	16.0	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2417	13.4	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2418	13.8	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2419	8.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2420	24.2	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2421	30.8	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2422	6.5	Osage-orange	<i>Maclura pomifera</i>	Healthy	Multi
2423	23.2	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2424	13.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single

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TAG#	DBH	COMMON NAME	SCIENTIFIC NAME	CONDITION	MULTIPLE- STEMMED
2425	11.3	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2426	5.3	eastern redcedar	<i>Juniperus virginiana</i>	Healthy	Single
2427	20.8	Osage-orange	<i>Maclura pomifera</i>	Healthy	Multi
2428	15.6	Osage-orange	<i>Maclura pomifera</i>	Healthy	Multi
2429	14.8	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2430	11.9	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2431	6.9	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2432	28.8	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2433	18.7	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2434	14.8	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2435	9.4	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2436	6.3	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2437	12.8	Osage-orange	<i>Maclura pomifera</i>	Healthy	Multi
2438	8.3	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2439	6.2	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2440	13.3	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2441	12.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2442	19.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2443	12.7	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2444	18.6	Osage-orange	<i>Maclura pomifera</i>	Declining	Multi
2445	6.5	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2446	4.9	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2447	30.3	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2448	10.6	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2449	6.0	eastern redcedar	<i>Juniperus virginiana</i>	Healthy	Single
2450	33.8	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2451	8.7	Osage-orange	<i>Maclura pomifera</i>	Healthy	Single
2452	29.2	hackberry	<i>Celtis laevigata</i>	Declining	Multi
2453	7.2	Osage-orange	<i>Maclura pomifera</i>	Declining	Single
2454	12.1	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2455	12.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2456	15.3	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2457	13.8	Osage-orange	<i>Maclura pomifera</i>	Healthy	Single
2458	15.5	Osage-orange	<i>Maclura pomifera</i>	Declining	Multi
2459	8.4	eastern redcedar	<i>Juniperus virginiana</i>	Healthy	Single
2460	8.3	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2461	10.3	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2462	13.3	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2463	24.6	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2464	7.2	American Elm	<i>Ulmus americana</i>	Healthy	Single
2465	8.2	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2466	14.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2467	8.4	hackberry	<i>Celtis laevigata</i>	Declining	Single
2468	5.8	Osage-orange	<i>Maclura pomifera</i>	Declining	Single
2469	6.6	eastern redcedar	<i>Juniperus virginiana</i>	Healthy	Single
2470	20.5	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2471	12.6	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2472	7.9	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2473	14.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2474	9.9	Osage-orange	<i>Maclura pomifera</i>	Declining	Forked
2475	10.3	Osage-orange	<i>Maclura pomifera</i>	Declining	Single
2476	6.3	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2477	10.2	Osage-orange	<i>Maclura pomifera</i>	Healthy	Multi

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TAG#	DBH	COMMON NAME	SCIENTIFIC NAME	CONDITION	MULTIPLE- STEMMED
2478	10.7	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2479	4.8	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2480	18.1	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2481	8.3	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2482	27.8	hackberry	<i>Celtis laevigata</i>	Declining	Multi
2483	13.9	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2484	10.2	Osage-orange	<i>Maclura pomifera</i>	Healthy	Single
2485	7.8	Osage-orange	<i>Maclura pomifera</i>	Declining	Single
2486	25.2	hackberry	<i>Celtis laevigata</i>	Declining	Multi
2487	10.3	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2488	19.5	Osage-orange	<i>Maclura pomifera</i>	Healthy	Multi
2489	9.7	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2490	19.4	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2491	14.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2492	8.9	American Elm	<i>Ulmus americana</i>	Healthy	Single
2493	4.5	Eve's necklace	<i>Sophora affinis</i>	Healthy	Single
2494	23.3	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2495	10.4	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2496	5.3	eastern redcedar	<i>Juniperus virginiana</i>	Healthy	Single
2497	17.3	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2498	28.3	hackberry	<i>Celtis laevigata</i>	Declining	Single
2499	13.7	hackberry	<i>Celtis laevigata</i>	Declining	Single
2500	6.3	eastern redcedar	<i>Juniperus virginiana</i>	Healthy	Single
2501	9.6	eastern redcedar	<i>Juniperus virginiana</i>	Healthy	Single
2502	6.7	Chinese elm	<i>Ulmus parvifolia</i>	Healthy	Single
2503	5.0	eastern redcedar	<i>Juniperus virginiana</i>	Healthy	Single
2504	15.9	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2505	7.2	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2506	8.7	Chinese elm	<i>Ulmus parvifolia</i>	Healthy	Single
2507	17.2	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2508	4.6	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2509	5.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2510	12.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2511	6.8	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2512	9.9	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2513	16.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2514	5.8	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2515	6.9	eastern redcedar	<i>Juniperus virginiana</i>	Healthy	Single
2516	12.1	Osage-orange	<i>Maclura pomifera</i>	Healthy	Single
2517	14.8	chittamwood	<i>Sideroxylon lanuginosum</i>	Healthy	Single
2518	9.4	chittamwood	<i>Sideroxylon lanuginosum</i>	Healthy	Single
2519	4.7	eastern redcedar	<i>Juniperus virginiana</i>	Healthy	Single
2520	5.5	eastern redcedar	<i>Juniperus virginiana</i>	Healthy	Single
2521	9.3	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2522	16.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2523	12.7	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2524	6.6	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2525	16.2	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2526	7.2	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2527	11.1	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2528	6.4	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2529	4.6	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2530	7.1	hackberry	<i>Celtis laevigata</i>	Healthy	Multi

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TAG#	DBH	COMMON NAME	SCIENTIFIC NAME	CONDITION	MULTIPLE-STEMMED
2531	8.7	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2532	9.8	hackberry	<i>Celtis laevigata</i>	Healthy	Forked
2533	4.8	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2534	9.3	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2535	12.6	hackberry	<i>Celtis laevigata</i>	Healthy	Forked
2536	11.1	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2537	8.4	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2538	8.9	hackberry	<i>Celtis laevigata</i>	Healthy	Forked
2539	6.6	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2540	16.5	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2541	6.1	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2542	16.2	black willow	<i>Salix nigra</i>	Declining	Single
2543	5.4	black willow	<i>Salix nigra</i>	Healthy	Single
2544	11.3	black willow	<i>Salix nigra</i>	Healthy	Multi
2545	7.3	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2546	11.4	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2547	6.2	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2548	14.0	hackberry	<i>Celtis laevigata</i>	Declining	Single
2549	8.8	eastern redcedar	<i>Juniperus virginiana</i>	Healthy	Single
2550	5.7	Hercules-club	<i>Zanthoxylum clava-herculis</i>	Healthy	Single
2551	19.4	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2552	24.6	Chinese elm	<i>Ulmus parvifolia</i>	Healthy	Multi
2553	17.3	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2554	6.0	Chinese elm	<i>Ulmus parvifolia</i>	Healthy	Single
2555	20.0	American Elm	<i>Ulmus americana</i>	Healthy	Single
2556	7.5	hackberry	<i>Celtis laevigata</i>	Declining	Single
2557	14.2	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2558	23.6	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2559	7.6	eastern redcedar	<i>Juniperus virginiana</i>	Healthy	Single
2560	28.3	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2561	7.5	eastern redcedar	<i>Juniperus virginiana</i>	Healthy	Forked
2562	10.5	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2563	6.2	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2564	12.5	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2565	28.9	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2566	10.4	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2567	12.3	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2568	19.6	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2569	21.2	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2570	30.8	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2571	14.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2572	7.2	hackberry	<i>Celtis laevigata</i>	Declining	Single
2573	14.4	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2574	6.4	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2575	25.7	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2576	17.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2577	12.5	hackberry	<i>Celtis laevigata</i>	Declining	Multi
2578	9.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2579	9.8	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2580	10.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2581	14.9	eastern redcedar	<i>Juniperus virginiana</i>	Healthy	Multi
2582	20.3	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2583	4.5	Chinese elm	<i>Ulmus parvifolia</i>	Healthy	Single

LCA Master Tree - Tree Inventory
Lucas, Collin County, Texas

TAG#	DBH	COMMON NAME	SCIENTIFIC NAME	CONDITION	MULTIPLE-STEMMED
2584	8.2	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2585	8.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2586	5.2	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2587	9.7	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2588	15.8	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2589	7.6	Chinese elm	<i>Ulmus parvifolia</i>	Healthy	Single
2590	39.3	Chinese elm	<i>Ulmus parvifolia</i>	Healthy	Multi
2591	12.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2592	41.3	Chinese elm	<i>Ulmus parvifolia</i>	Healthy	Multi
2593	16.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2594	25.0	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2595	29.6	Chinese elm	<i>Ulmus parvifolia</i>	Healthy	Multi
2596	18.6	hackberry	<i>Celtis laevigata</i>	Healthy	Forked
2597	9.8	Chinese elm	<i>Ulmus parvifolia</i>	Healthy	Multi
2598	12.7	hackberry	<i>Celtis laevigata</i>	Healthy	Forked
2599	12.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2600	5.1	Chinese elm	<i>Ulmus parvifolia</i>	Healthy	Multi
2601	15.2	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2602	9.4	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2603	24.8	Osage-orange	<i>Maclura pomifera</i>	Healthy	Multi
2604	38.4	American Elm	<i>Ulmus americana</i>	Healthy	Multi
2605	26.9	American Elm	<i>Ulmus americana</i>	Declining	Multi
2606	19.9	American Elm	<i>Ulmus americana</i>	Hazard	Forked
2607	33.4	Osage-orange	<i>Maclura pomifera</i>	Healthy	Multi
2608	21.4	hackberry	<i>Celtis laevigata</i>	Declining	Single
2609	19.3	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2610	17.8	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2611	9.2	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2612	8.5	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2613	15.9	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2614	21.7	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2615	18.3	American Elm	<i>Ulmus americana</i>	Declining	Single
2616	11.4	red mulberry	<i>Morus rubra</i>	Declining	Single
2617	14.4	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2618	16.4	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2619	11.3	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2620	17.8	American Elm	<i>Ulmus americana</i>	Declining	Single
2621	12.8	American Elm	<i>Ulmus americana</i>	Declining	Single
2622	14.0	American Elm	<i>Ulmus americana</i>	Hazard	Forked
2623	12.2	American Elm	<i>Ulmus americana</i>	Healthy	Single
2624	5.4	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2625	21.0	American Elm	<i>Ulmus americana</i>	Healthy	Forked
2626	15.4	American Elm	<i>Ulmus americana</i>	Healthy	Multi
2627	19.3	Chinese elm	<i>Ulmus parvifolia</i>	Healthy	Single
2628	33.9	American Elm	<i>Ulmus americana</i>	Healthy	Multi
2629	13.0	American Elm	<i>Ulmus americana</i>	Healthy	Single
2630	11.2	American Elm	<i>Ulmus americana</i>	Declining	Single
2631	32.4	American Elm	<i>Ulmus americana</i>	Healthy	Multi
2632	23.3	American Elm	<i>Ulmus americana</i>	Healthy	Single
2633	17.4	Chinese elm	<i>Ulmus parvifolia</i>	Healthy	Single
2634	20.4	winged elm	<i>Ulmus alata</i>	Healthy	Single
2635	22.0	American Elm	<i>Ulmus americana</i>	Declining	Single
2636	23.6	Chinese elm	<i>Ulmus parvifolia</i>	Declining	Forked

LCA Master Tree - Tree Inventory
Lucas, Collin County, Texas

TAG#	DBH	COMMON NAME	SCIENTIFIC NAME	CONDITION	MULTIPLE- STEMMED
2637	11.3	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2638	10.5	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2639	5.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2640	13.6	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2641	12.4	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2642	10.7	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2643	10.8	black willow	<i>Salix nigra</i>	Declining	Single
2644	12.8	black willow	<i>Salix nigra</i>	Declining	Single
2645	8.5	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2646	8.9	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2647	17.4	black willow	<i>Salix nigra</i>	Declining	Single
2648	7.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2649	26.0	Osage-orange	<i>Maclura pomifera</i>	Declining	Forked
2650	14.6	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2651	13.7	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2652	18.2	hackberry	<i>Celtis laevigata</i>	Declining	Single
2653	15.1	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2654	17.5	American Elm	<i>Ulmus americana</i>	Healthy	Single
2655	20.8	black willow	<i>Salix nigra</i>	Healthy	Single
2656	9.7	American Elm	<i>Ulmus americana</i>	Healthy	Multi
2657	14.3	American Elm	<i>Ulmus americana</i>	Declining	Single
2658	8.3	American Elm	<i>Ulmus americana</i>	Healthy	Single
2659	5.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2660	9.2	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2661	8.5	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2662	4.7	American Elm	<i>Ulmus americana</i>	Healthy	Multi
2663	5.8	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2664	5.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2665	5.6	hackberry	<i>Celtis laevigata</i>	Healthy	Forked
2666	6.9	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2667	12.8	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2668	10.6	hackberry	<i>Celtis laevigata</i>	Healthy	Forked
2669	7.3	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2670	18.8	hackberry	<i>Celtis laevigata</i>	Declining	Single
2671	9.2	American Elm	<i>Ulmus americana</i>	Healthy	Single
2672	20.3	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2673	4.7	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2674	11.7	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2675	4.6	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2676	13.7	Osage-orange	<i>Maclura pomifera</i>	Healthy	Single
2677	9.1	American Elm	<i>Ulmus americana</i>	Declining	Single
2678	8.0	hackberry	<i>Celtis laevigata</i>	Healthy	Forked
2679	5.4	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2680	9.2	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2681	4.5	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2682	9.7	American Elm	<i>Ulmus americana</i>	Healthy	Single
2683	16.0	black willow	<i>Salix nigra</i>	Healthy	Single
2684	11.9	black willow	<i>Salix nigra</i>	Declining	Single
2685	12.6	black willow	<i>Salix nigra</i>	Healthy	Single
2686	14.0	black willow	<i>Salix nigra</i>	Healthy	Single
2687	11.2	black willow	<i>Salix nigra</i>	Healthy	Single
2688	10.7	black willow	<i>Salix nigra</i>	Healthy	Single
2689	14.1	black willow	<i>Salix nigra</i>	Healthy	Single

LCA Master Tree - Tree Inventory
Lucas, Collin County, Texas

TAG#	DBH	COMMON NAME	SCIENTIFIC NAME	CONDITION	MULTIPLE- STEMMED
2690	15.3	black willow	<i>Salix nigra</i>	Healthy	Single
2691	12.8	black willow	<i>Salix nigra</i>	Healthy	Single
2692	17.0	black willow	<i>Salix nigra</i>	Healthy	Single
2693	5.6	American Elm	<i>Ulmus americana</i>	Healthy	Single
2694	15.7	black willow	<i>Salix nigra</i>	Healthy	Single
2695	20.2	black willow	<i>Salix nigra</i>	Healthy	Multi
2696	22.3	black willow	<i>Salix nigra</i>	Healthy	Multi
2697	12.3	black willow	<i>Salix nigra</i>	Healthy	Single
2698	15.6	black willow	<i>Salix nigra</i>	Healthy	Single
2699	10.5	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2700	13.5	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2701	16.7	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2702	9.4	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2703	8.7	hackberry	<i>Celtis laevigata</i>	Healthy	Multi
2704	8.6	Osage-orange	<i>Maclura pomifera</i>	Healthy	Multi
2705	7.4	eastern redcedar	<i>Juniperus virginiana</i>	Healthy	Single
2706	16.0	hackberry	<i>Celtis laevigata</i>	Healthy	Single
2707	19.6	hackberry	<i>Celtis laevigata</i>	Healthy	Single
Kimley-Horn red tag series: 2001-2707. Trees measuring 4.5-inches and larger DBH were tagged in accordance with the City of Lucas Ordinance.					



October 25, 2024

Mr. Joe Hilbourn

City of Lucas, TX
Planning & Zoning Commission
665 Country Club Road
Lucas, Texas 75002

**RE: *Lot 1, Block A of Lucas Christian Church Addition
SUP Amendment
Statement of Intent***

Dear Mr. Hilbourn:

Kimley-Horn respectfully submits this written letter of intent for a formal review of the submitted SUP amendment. The subject property has an existing Specific Use Permit (SUP) overlay with a base zoning of R2 Single Family. The applicant is proposing to amend the existing SUP for Lot 1, Block A and create a new conceptual masterplan for the property that incorporates the adjacent 22.61-acre parcel owned by James and Lee Irwin Family Limited Partnership. The subject property is an existing educational facility and is surrounded by vacant land to the west, residential to the south, a church within the SUP and a residential use to the east. The proposed development and revised masterplan include the expansion of educational and athletic facilities, as well as the extension of Stinson Road through the property, per the City master thoroughfare plan amendment currently in progress. This expansion to the existing Lucas Christian Academy campus will provide important and complimentary services to the nearby residents, students, and visitors, as well as provide additional academic classrooms and support facilities.

The proposed Stinson Road extension will run north-south between FM1378 and existing Stinson Road to the south of the parcel. A signalized intersection is proposed at the intersection of the future Stinson Road extension and FM 1378. The two additional access drives to the property will remain in their existing locations. The project proposes additional access off the proposed Stinson Road extension.

Please do not hesitate to contact to contact me via email (Jeffrey.Dolian@kimley-horn.com) if you have any questions during the review process.

Regards,

Jeffrey Dolian

KIMLEY-HORN AND ASSOCIATES, INC.



ZONING APPLICATION

City of Lucas, Texas

Name of Project: LUCAS CHRISTIAN ACADEMY SUP

	Application Fee
<u> </u> Initial Zoning (newly annexed or agricultural property) per classification	\$450.00
<u> </u> Rezoning (property currently zoned) per classification	\$450.00
<u> X </u> Specific Use Permit (SUP) - see Zoning Ordinance for special requirements and procedures	\$450.00

Physical Location of Property: TRACT IMMEDIATELY WEST OF 505 W LUCAS ROAD, LUCAS, TX 75002
[Address and General Location – approximate distance to nearest existing street corner]

Brief Legal Description of Property (must also attach accurate metes and bounds description):
ABS A0538 JAS LOVELADY SURVEY, TRACT 21, 22.679 ACRES
[Survey/Abstract No. and Tracts; or platted Subdivision Name with Lots/Block]

Collin County Appraisal District Short Account Number: 2665871

Acreage: 22.7 Existing Zoning: R2 Requested Zoning: R2 w/ SUP
[Attach a detailed description of requested zoning]

OWNER(S) NAME: JAMES AND LEE IRWIN FAMILY LIMITED PARTNERSHIP Phone Number: 903-517-9452

Applicant / Contact Person: ANDREA BEDELL Title: REALTOR

Company Name: JAMES AND LEE IRWIN FAMILY LIMITED PARTNERSHIP

Mailing Address: 5617 COUNTY RD 115 City: LUCAS ^{WHITESBORO} State: TX ZIP: 76273

Phone: (817) 247-1778 Fax: () NA Email Address: BEDELLPROPERTIES@GMAIL.COM

ENGINEER(S) / REPRESENTATIVE(S) NAME: KIMLEY-HORN AND ASSOCIATES, INC.

Contact Person: JEFFREY DOLIAN Title: PROJECT MANAGER

Company Name: KIMLEY-HORN AND ASSOCIATES, INC.

Mailing Address: 13455 NOEL RD, STE. 700 City: DALLAS State: TX ZIP: 75240

Phone: () 972-770-1300 Fax: () Email Address: JEFFREY.DOLIAN
@KIMLEY-HORN.COM



ZONING APPLICATION (continued)

Name of Project: LUCAS CHRISTIAN ACADEMY SUP

****READ BEFORE SIGNING BELOW:** If there should be more than one property owner, complete a separate sheet with the same wording as below. The City requires all original signatures. If applicant is other than the property owner a "Power of Attorney" with original, notarized signatures is required. (Notaries are available upon submittal.)

SUBMITTAL DEADLINE: 30 DAYS PRIOR TO P&Z PUBLIC HEARING DATE. All zoning applications must be advertised in the newspaper, and notices must be mailed to all property owners within 500 feet of the subject property. Please contact City staff in advance for submittal deadlines.

ALL APPLICATIONS MUST BE COMPLETE, ACCOMPANIED BY THE APPLICABLE CHECKLIST AND TAX CERTIFICATE SHOWING TAXES PAID, BEFORE THEY WILL BE SCHEDULED FOR P&Z AGENDA. It is the applicant's responsibility to be familiar with, and to comply with, all City submittal requirements (in the Zoning & Subdivision Ordinances, and any separate submittal policies, requirements and/or checklists that may be required from City staff), including the number of plans to be submitted, application fees, etc. Please contact City staff in advance for submittal requirements. [Drawings will not be returned to applicant.]

SUBMISSIONS. Failure to submit all materials to the City with this application will result in delays scheduling the agenda date.

NOTICE OF PUBLIC RECORDS. The submission of plans/drawings/etc. with this application makes such items public record, and the applicant understands that these items may be viewed by the general public. Unless the applicant expressly states otherwise in writing, submission of this application (with associated plans/drawings/etc.) will be considered consent by the applicant that the general public may view and/or reproduce (i.e., copy) such documents.

ALL PARCELS/PROPERTIES MUST MATCH IN ACREAGE ALL OTHER DOCUMENTS SUBMITTED, WITH NO AMBIGUITY.

STATE OF TEXAS }
COUNTY OF COLLIN }

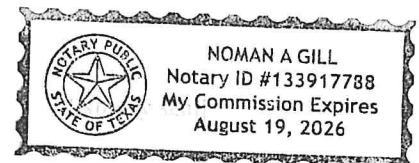
Andea Bedell

BEFORE ME, a Notary Public, on this day personally appeared _____ the undersigned who, under oath, stated the following: "I hereby certify that I am the owner, or duly authorized agent of the owner, (proof attached) for the purposes of this application; that all information submitted herein is true and correct. I understand that submitting this application does not constitute approval, and incomplete applications will result in delays and possible denial."

Andea Bedell
**Owner / Agent (circle one)

SUBSCRIBED AND SWORN TO before me, this the 4th day of October 2024

Notary Public in and for the State of Texas: _____



Official Use Only

Action Taken

Planning & Zoning: _____ Date: _____

City Council: _____ Date: _____

Applicant Made a Written Withdrawal: Yes or No Date: _____



ZONING APPLICATION

City of Lucas, Texas

Name of Project: LUCAS CHRISTIAN ACADEMY SUP

	Application Fee
<u> </u> Initial Zoning (newly annexed or agricultural property) per classification	\$450.00
<u> </u> Rezoning (property currently zoned) per classification	\$450.00
<u> X </u> Specific Use Permit (SUP) - see Zoning Ordinance for special requirements and procedures	\$450.00

Physical Location of Property: 505 W LUCAS ROAD, LUCAS, TX 75002

[Address and General Location – approximate distance to nearest existing street corner]

Brief Legal Description of Property (must also attach accurate metes and bounds description):
LUCAS CHRISTIAN CHURCH ADDITION, BLOCK A, LOT 1

[Survey/Abstract No. and Tracts; or platted Subdivision Name with Lots/Block]

Collin County Appraisal District Short Account Number: 2656636

Acreage: 16.0 Existing Zoning: R2 w/ SUP Requested Zoning: R2 w/ SUP

[Attach a detailed description of requested zoning]

OWNER(S) NAME: LUCAS CHRISTIAN ACADEMY INC Phone Number: 972-429-4362

Applicant / Contact Person: JOSEPH WALKER Title: HEAD OF SCHOOL

Company Name: LUCAS CHRISTIAN ACADEMY

Mailing Address: 505 W. LUCAS ROAD City: LUCAS State: TX ZIP: 75002

Phone: () 972-429-4362 Fax: () _____ Email Address: JWALKER@
LUCASCHRISTIANACADEMY.COM

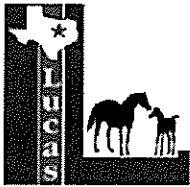
ENGINEER(S) / REPRESENTATIVE(S) NAME: KIMLEY-HORN AND ASSOCIATES, INC.

Contact Person: JEFFREY DOLIAN Title: PROJECT MANAGER

Company Name: KIMLEY-HORN AND ASSOCIATES, INC.

Mailing Address: 13455 NOEL RD, STE 700 City: DALLAS State: TX ZIP: 75240

Phone: () 972-770-1300 Fax: () _____ Email Address: JEFFREY.DOLIAN
@KIMLEY-HORN.COM



ZONING APPLICATION (continued)

Name of Project: LUCAS CHRISTIAN ACADEMY SUP

****READ BEFORE SIGNING BELOW:** If there should be more than one property owner, complete a separate sheet with the same wording as below. The City requires all original signatures. If applicant is other than the property owner a "Power of Attorney" with original, notarized signatures is required. (Notaries are available upon submittal.)

SUBMITTAL DEADLINE: 30 DAYS PRIOR TO P&Z PUBLIC HEARING DATE. All zoning applications must be advertised in the newspaper, and notices must be mailed to all property owners within 500 feet of the subject property. Please contact City staff in advance for submittal deadlines.

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SUBMISSIONS. Failure to submit all materials to the City with this application will result in delays scheduling the agenda date.

NOTICE OF PUBLIC RECORDS. The submission of plans/drawings/etc. with this application makes such items public record, and the applicant understands that these items may be viewed by the general public. Unless the applicant expressly states otherwise in writing, submission of this application (with associated plans/drawings/etc.) will be considered consent by the applicant that the general public may view and/or reproduce (i.e., copy) such documents.

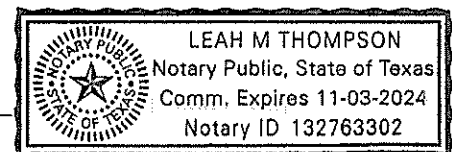
ALL PARCELS/PROPERTIES MUST MATCH IN ACREAGE ALL OTHER DOCUMENTS SUBMITTED, WITH NO AMBIGUITY.

STATE OF TEXAS }
COUNTY OF COLLIN }

BEFORE ME, a Notary Public, on this day personally appeared Joseph Walker the undersigned who, under oath, stated the following: "I hereby certify that I am the owner, or duly authorized agent of the owner, (proof attached) for the purposes of this application; that all information submitted herein is true and correct. I understand that submitting this application does not constitute approval, and incomplete applications will result in delays and possible denial."

Joseph Walker
**Owner / Agent (circle one)

SUBSCRIBED AND SWORN TO before me, this the 23rd day of 2024



Notary Public in and for the State of Texas: Amos

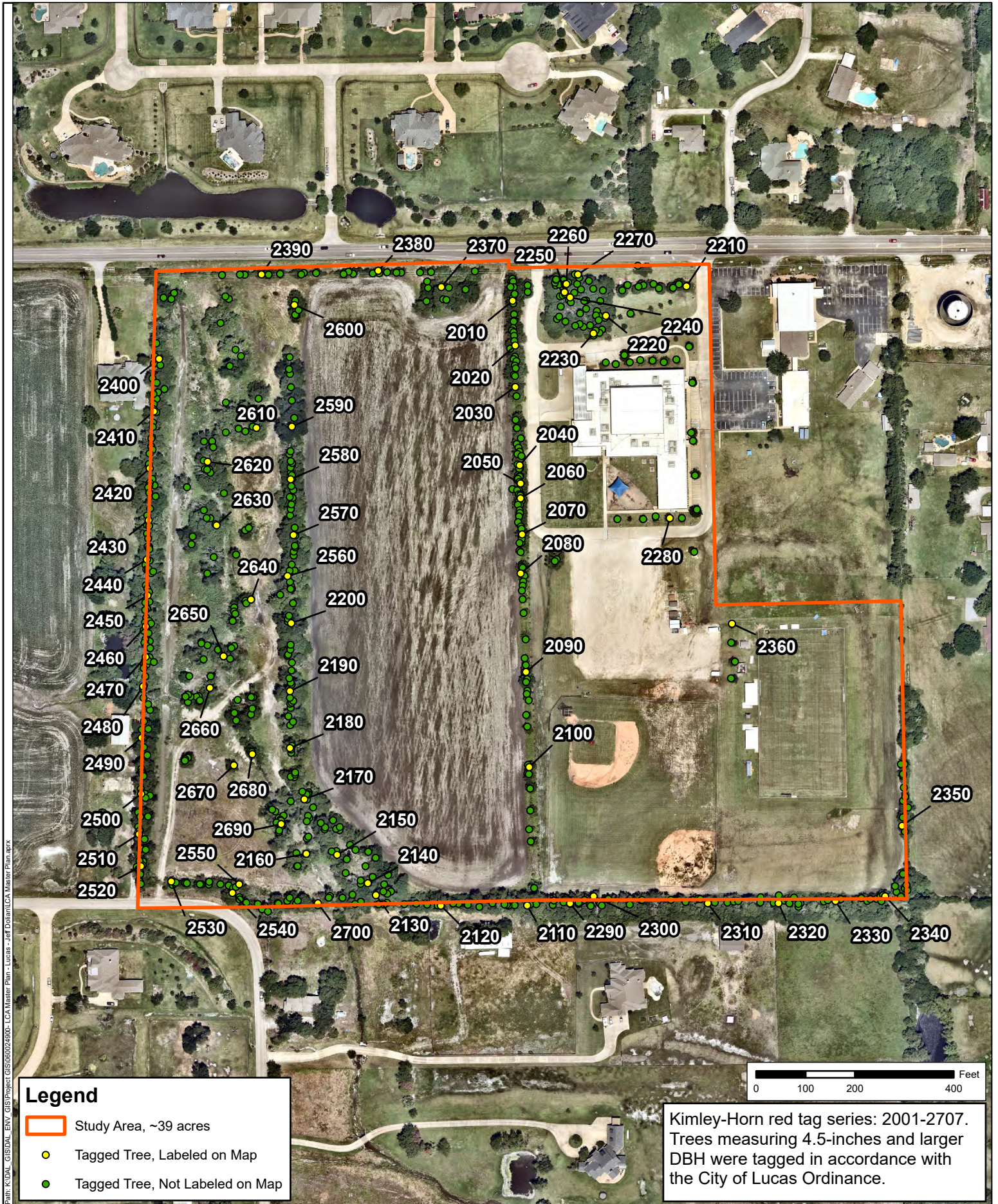
Official Use Only

Action Taken

Planning & Zoning: _____ Date: _____

City Council: _____ Date: _____

Applicant Made a Written Withdrawal: Yes or No Date: _____



FIGURE

1

DATE: 10/17/2024

DRAWN: QDW

CHECKED: AMB

KHA NO.: 060024900

Tree Inventory Map

Source: Nearmap June 2024

LCA Master Plan

Lucas, Collin County, Texas



Kimley»Horn

This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or survey purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of property boundaries.

CITY OF LUCAS

Zoning Guidelines and Application



665 Country Club Road
Lucas, Texas 75002

Office 972-912-1206
www.lucastexas.us



ZONING SUBMISSION REQUIREMENTS

The City is concerned about the time, expense and efforts you and City staff have or will put into your project. The checklists herein are provided to expedite the project review process, and to provide a clear understanding of what will be required, what will be expected, and what will be evaluated. City staff is bound by City Ordinance and State law regarding publishing of notices, mail-outs, etc. that will have an effect upon when your project will be heard by the approval body, which can only occur when the Zoning Application and plans are complete in all detail as determined by City staff.

Please read each checklist carefully. They are to be complete for all projects prior to acknowledgement by the City that the respective plan is accepted to proceed for approval. Instructions for completion are included with each checklist. Development regulations may be reviewed on the City's web site www.lucastexas.us.

It is recognized that there most often will be changes needed from what is initially submitted to the City for review. City staff conscientiously examines each item on a checklist to see if the item was sufficiently addressed according to City requirements. Where deficiencies are found, the plans will be marked and returned to the applicant named on the application to be addressed prior to further review or acceptance.



ZONING SUBMISSION REQUIREMENTS

1st or initial submittal

- 2 (two) - 24" x 36" folded to approximately 8" x 12" copies of each plan
- An electronic copy of required plat and/or exhibits in pdf format.
- 6 (six) - 11" x 17" hardcopy reductions
- Completed checklist
- Completed application
- A letter requesting any variance or exception, or why an issue was not addressed
- An 8 1/2" x 11" hardcopy reduction of the Plat
- A fee as required

2nd and 3rd submittals to address requirements

- Highlight questions asked by Design Review Committee (DRC) committee in bold.
 - Provide response/correction directly below DRC question.
- 2 (two) - 24" x 36" folded (approximately 8" x 12") copies with required corrections
- An electronic copy of the corrected plat and/or exhibits in pdf format.
- 6 (six) - 11" x 17" hard copy reductions with required corrections

4th and subsequent submittal(s)

- 2 (two) - 24" x 36" folded (approximately 8" x 12") copies with required corrections.
- A fee equal to the original submission fee

When staff has determined the application is complete and accepted for final approval

- 30 (thirty) - 24" x 36" folded copies of Zoning Concept Plan and any/all other required Plan Exhibits
- 4 (four) - 11" x 17" Z folded copies.
- An electronic copy (8 1/2 x 11 size) in pdf format.
- Labels of an appropriate size for mailing, with current property owner(s) name and address, of any property located within 500' of all property lines.
- A copy of the affected parcels on a CollinCad generated map.
- Any changes made after Planning & Zoning review and before City Council review will require:
 - 15 (fifteen) - 24" x 36" copies of each Plan, folded to approximately 8" x 12"
 - 4 (four) - 11" x 17" or "12 x 18" reductions of each plan tri- or Z-folded.
 - An electronic copy of all plans in pdf format



Zoning Exhibit Checklist

Minimum Requirements

Project Name: Lucas Christian Academy

Preparer: Kimley Horn (Jeff Dolian)

This checklist is provided to assist you in addressing the minimum requirements for a zoning or rezoning submission. An application is incomplete unless all applicable information noted below is submitted to the Development Services Department. Indicate that all information is included on the submitted plans by initialing the box next to the required information. Initialing each item certifies to the City that you have completely and accurately addressed the issue. Return this form at the time of application submittal.

A zoning/rezoning request and associated plans are expected to be submitted complete and accurate in all detail as shown by the checklist. Should plans be determined to be incomplete, they may either be returned to the applicant without further review or marked up with needed changes, depending on the amount/magnitude of changes or corrections needed.

For Zoning or Rezoning to a Straight Zoning District N/A

- ☐ Location/vicinity map showing the location of the proposed zoning with cross streets is included. Indicate scale or not to scale (NTS) and provide north arrow.
- ☐ Abstract lines, survey lines, county lines, corporate boundaries are correctly shown and clearly labeled.
- ☐ Statement of purpose and intent of the zoning or rezoning that includes:
 - ☐ Land Use(s) proposed
 - ☐ Existing and proposed zoning
 - ☐ Impact of uses(s) on the transportation system. NOTE: The City will determine if a Traffic Impact Analysis (TIA) is required.
 - ☐ Impact of the use(s) on water and wastewater utilities (e.g. provide statement as to general availability).
 - ☐ Impact on land use(s) adjacent to the rezoning request.
 - ☐ Conformance to the Comprehensive Plan.
 - ☐ Other information as required by City staff, Planning & Zoning Commission, and/or City Council
 - ☐ If a residential use, the density of the proposal and density of adjacent residential use(s).
- ☐ Adjacent zoning and existing land use(s) within 500 feet is indicated.
- ☐ Adjacent driveways, streets, roads and other thoroughfares within 500 feet of the property are shown and labeled.
- ☐ A note stating that development of the site will be in accordance with City of Lucas development standards.
- ☐ Provide an electronic file (pdf) of Legal Description/Metes & Bounds Description with labeling at top of document.
- ☐ Mailing labels of an appropriate size for mailing, with current property owner(s) name and address, of any property located within 500 feet of all property lines of subject property.



Zoning Exhibit Checklist Minimum Requirements (continued)

*****Note: See GFF
Master Plan**

For Special Use Permit (SUP) Requests, Conditional Use Permit (CUP) Requests and Planned Development / Zoning District Requests or Amendments

- ☒ Zoning boundary is indicated by a heavy solid line, intermittent with 2 dash lines; dimensioned with bearing(s) and distance(s).
- ☐ A title block in the lower right corner that includes large, boldly printed "ZONING CONCEPT PLAN - EXHIBIT B", owner and engineer(s), architect(s), and/or surveyor(s) names, addresses and phone numbers, project name, total acreage, survey name and abstract number (Addition Name & Lot and Block info if platted property), Collin County, submission date, and a log of submittal/revision dates since submitted to the City. A note shall be affixed to the Zoning Concept Plan as follows:

"This Concept Plan is for illustrative purposes only and subject to change. This Concept Plan, along with development regulations (for Planned Development requests), are intended to describe the intent of the Planned Development. Significant deviations from this Concept Plan, as determined by the Development Services Director, will require an amendment to the Concept Plan and, as necessary, the development regulations."
- ☐ Location/vicinity map showing the location of the proposed zoning request/change with cross streets is included.
- ☒ Indicate scale or not to scale (NTS) and provide north arrow.
- ☒ Written and bar graph scale, and north arrow are indicated. North shall be oriented to the top or left side of the sheet.
- ☐ Abstract lines, survey lines, corporate boundaries are correctly shown and clearly labeled.
- ☒ Statement of purpose and intent of the rezoning that includes:
 - o Land use(s) proposed
 - o Existing and proposed zoning and land use
 - o Impact of uses(s) on the transportation system.

NOTE: The City will determine if a Traffic Impact Analysis (TIA) is required.

 - o Impact of the use(s) on water and wastewater utilities (e.g. provide statement as to general availability).
 - o Impact on land use(s) adjacent to the rezoning request.
 - o Conformance to the Comprehensive Plan.
 - o Other information as required by City staff, Planning & Zoning Commission, and/or City Council
- ☒ Adjacent zoning and existing land use(s) within 500 feet is indicated.
- ☒ Adjacent driveways, streets, roads and other thoroughfares within 500 feet of the project are shown.
- ☒ Concept Plan that includes the following:
 - o Land use(s) proposed (building footprint(s) are to be graphically shown).
 - o Thoroughfares as depicted on the Master Thoroughfare Plan (MTP) within and adjacent to the site are accurately located, named and dimensioned. Existing is to be shown as a light, solid line; proposed shown as a medium weight solid line.
 - o Medians, left-turn lanes, median openings, curb cuts, acceleration/deceleration lanes within 200 feet of the property are accurately located, labeled, and dimensioned. Existing is to be shown as a light, solid line; proposed shown as a medium weight solid line.
 - o If a structure is proposed, or proposed to remain, a minimum and maximum square footage (if no definitive/specific user(s) are identified at this time) is indicated for the structure(s).
 - o If a structure is proposed, or proposed to remain, the use, approximate location, and square footage of each building is provided.
 - o If a residential use, the density of the proposal and density of adjacent residential use(s).
 - o Project phasing lines.
 - o Other pertinent data as may be required by City staff, Planning and Zoning Commission, and/or City Council.
 - o Location of present, future or proposed public dedication of parks, open space, etc.
- ☒ Mailing labels of an appropriate size for mailing, with current property owner(s) name and address, of any property located within 500 feet of all property lines of subject property.



Zoning Exhibit Checklist

Minimum Requirements (continued)

Special Use Permit (SUP) and Conditional Use Permit (CUP) requests shall also include the following items in table format on the Zoning Concept Plan (Exhibit “B”) and those specified in items 1 thru 10 above as applicable:

- ☒ Existing/proposed Lot Number(s)
- ☒ Lot area specified in square feet and acreage
- ☒ Building square footage (Indication of Minimum and Maximum suggested if no definitive/specific user(s) identified at this time)
- ☒ Proposed use for each proposed building by category of use (e.g. retail, medical office, restaurant with or without drive-thru, convenience store, bank with drive-thru, church, etc.)
- ☒ Parking count required and specified per use(s) with required ratio indicated

Planned Development (PD) Zoning District requests shall also include Development Regulations (labeled/titled Exhibit “C”) with the following: **N/A**

- ☐ Hard copy (8 ½” X 11”) and pdf file on disk is provided.
- ☐ List of proposed land uses
- ☐ Proposed use(s) for each building (non-residential and mixed-use development) by category of use (e.g. retail, professional office, medical office, church, restaurant, bank with drive through, etc.)
- ☐ Maximum square footage of each building (non-residential uses)
- ☐ Minimum lot area (residential uses)
- ☐ Minimum lot width (residential uses)
- ☐ Minimum lot depth (residential uses)
- ☐ Heights and stories
- ☐ Maximum lot coverage percentage
- ☐ Maximum lot count (residential uses)
- ☐ Minimum house size square footage excluding garages and breezeways
- ☐ Fencing requirements indicated
- ☐ Garage type(s) indicated (e.g. front entry, rear entry alley served, “J”-hook, etc.)
- ☐ Accessory Building regulations
- ☐ Subdivision Ordinance waiver/modification requests are specifically listed.
- ☐ Parking count required specified per use(s) with required ratio indicated
- ☐ Parking count provided
- ☐ Statement is provided indicating that all current development requirements of the City as amended shall be met unless approved otherwise within these Planned Development Zoning District Development Regulations.
- ☐ Hard copy (8 ½” X 11”) and electronic file (pdf) of Legal Description/Metes & Bounds Description with labeling at top of document indicating Exhibit “A” is provided.
- ☐ Mailing labels of an appropriate size for mailing, with current property owner(s) name and address, of any property located within 500 feet of all property lines.

NOTE: DEVIATIONS FROM CURRENT DEVELOPMENT STANDARDS/REGULATIONS NOT SPECIFICALLY ADDRESSED/LISTED FOR APPROVAL AS PART OF PLANNED DEVELOPMENT REGULATIONS MAY REQUIRE A HEARING/APPROVAL BY THE BOARD OF ADJUSTMENT (BOA).

ORDINANCE NO. 2004-10-411

AN ORDINANCE OF THE CITY OF LUCAS, TEXAS, AMENDING THE COMPREHENSIVE ZONING ORDINANCE AND MAP OF THE CITY OF LUCAS TO GRANT A CHANGE IN ZONING TO GRANT A SPECIFIC USE PERMIT FOR THE OPERATION OF A CHURCH AND SCHOOL FACILITY FOR THE PROPERTY DESCRIBED IN EXHIBIT "A" ATTACHED HERETO, A TRACT OF LAND IN THE CITY OF LUCAS, TEXAS LOCATED AT 415 W. LUCAS ROAD; PROVIDING A SEVERABILITY CLAUSE; PROVIDING A PENALTY OF FINE NOT TO EXCEED THE SUM OF TWO THOUSAND (\$2,000.00) DOLLARS FOR EACH OFFENSE; AND PROVIDING AN EFFECTIVE DATE.

WHEREAS, the Planning and Zoning Commission of the City of Lucas and the governing body of the City of Lucas, in compliance with state laws with reference to amending the Comprehensive Zoning Ordinance and Map, 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 Lucas 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 LUCAS, TEXAS:

SECTION 1. That the Comprehensive Zoning Ordinance and Map of the City of Lucas, Texas, as heretofore amended be and the same are hereby amended to grant a change in zoning to grant a Special Use Permit to allow the use, construction, expansion, renovation, and operation of a church and place of religious worship and ancillary, related uses including a private school for property located at 415 W. Lucas Road and being more particularly described in Exhibit "A" attached hereto and made part hereof for all purposes.

SECTION 2. That the above-described property shall be used only in the manner and for the purposes provided for by the Comprehensive Zoning Ordinance of the City of Lucas as heretofore amended, and the regulations imposed within the R2 Single Family District, subject to the following conditions:

1. The Property may be used as a church and for religious worship and ancillary related uses and purposes, including but not limited to a private school operated by the Lucas Christian Academy;

2. The development of the property shall be in accordance with the site plan, a copy of which is attached hereto as Exhibit "B" and is, by this reference, incorporated herein and made a part of this ordinance;
3. There shall be no additional structures, temporary or permanent, situated, located, constructed or erected on the Property other than those that currently exist as of the effective date of this ordinance and those that are depicted on the site plan attached hereto as Exhibit "B";
4. The applicant/owner of the Property shall conduct and perform a traffic study in conjunction with the Texas Department of Transportation which shall indicate traffic flows and patterns on streets that service and access the Property; and
5. This Specific Use Permit shall be for a period of five (5) years of and from the effective date hereof, after which time it shall automatically terminate. Upon termination, no use or structure shall be grandfathered or considered or deemed to be a lawful nonconforming use or structure. The applicant/owner may, at any time prior to expiration of this Specific Use Permit, apply for a new Specific Use Permit and/or an extension hereof, in conjunction with the submission of a permanent master site plan.

SECTION 3. That if any section, sentence, clause, or phrase of this ordinance is for any reason held to be unconstitutional or otherwise invalid or unenforceable by a court of competent jurisdiction, such decision shall not affect the validity of the remaining sections, sentences, clauses, or phrases of this ordinance, the Comprehensive Zoning Ordinance, or the Code of Ordinances as an entirety, it being the legislative intent that the provisions of this ordinance are severable and that the ordinance shall continue in effect notwithstanding the invalidity of such section, sentence, clause, or phrase.

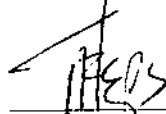
SECTION 4. Any person, firm or corporation violating any of the provisions of this ordinance or the Comprehensive Zoning Ordinance of the City of Lucas, Texas, as amended hereby, shall be deemed guilty of a misdemeanor and, upon conviction, shall be subject to a fine not to exceed the sum of Two Thousand (\$2,000.00) Dollars for each offense, and each and every day any such violation shall continue shall be deemed to constitute a separate offense.

SECTION 5. This Ordinance shall take effect immediately from and after its passage and the publication of the caption as the law in such cases provide.

DULY ADOPTED AND APPROVED by the City Council of the City of Lucas, Texas, on *this the 4th day of October, 2004.*

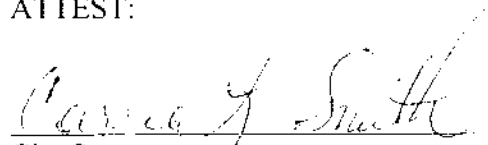


APPROVED:



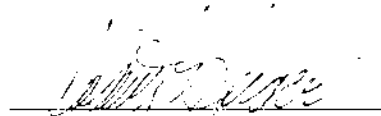
Mayor

ATTEST:



City Secretary

APPROVED AS TO FORM:



City Attorney (68192)

ORDINANCE NO. 2004-10-411

AN ORDINANCE OF THE CITY OF LUCAS, TEXAS, AMENDING THE COMPREHENSIVE ZONING ORDINANCE AND MAP OF THE CITY OF LUCAS TO GRANT A CHANGE IN ZONING TO GRANT A SPECIFIC USE PERMIT FOR THE PROPERTY DESCRIBED IN EXHIBIT "A" ATTACHED HERETO, A TRACT OF LAND IN THE CITY OF LUCAS, TEXAS LOCATED AT 415 W. LUCAS ROAD; PROVIDING A SEVERABILITY CLAUSE; PROVIDING A PENALTY OF FINE NOT TO EXCEED THE SUM OF TWO THOUSAND (\$2,000.00) DOLLARS FOR EACH OFFENSE; AND PROVIDING AN EFFECTIVE DATE.

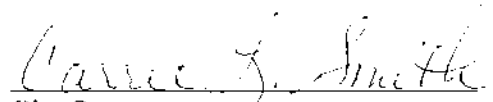
DULY ADOPTED AND APPROVED by the City Council of the City of Lucas, Texas, on
this the 4th day of October, 2004.

APPROVED:



Mayor

ATTEST:



City Secretary

EXHIBIT A
ORDINANCE 2004-10-411

LEGAL DESCRIPTION
Lucas Christian Church and Lucas Christian Academy
415 W. Lucas Road

A0538 LOVELADY, JAS, TRACT 16, ACRES 2.3340,
A0538 LOVELADY, JAS, TRACT 15, ACRES 2.8000,
A0538 LOVELADY, JAS, TRACT 69, ACRES 17.232

Filename: Lucas Zoning Ordinance SUP Lucas Christian Academy2
Directory: C:\Documents and Settings\csmith\Local
Settings\Temporary Internet Files\OLK27A
Template: C:\Documents and Settings\csmith\Application
Data\Microsoft\Templates\Normal.dot
Title: ORDINANCE NO
Subject:
Author: dberman
Keywords:
Comments:
Creation Date: 10/5/2004 1:06 PM
Change Number: 2
Last Saved On: 10/5/2004 1:06 PM
Last Saved By: dberman
Total Editing Time: 5 Minutes
Last Printed On: 10/29/2004 2:41 PM
As of Last Complete Printing
Number of Pages: 4
Number of Words: 857 (approx.)
Number of Characters: 4,890 (approx.)

☐	Annexation
☐	Disannexation
☒	Code of Ordinances
☐	Other

ORDINANCE # 2009-06-00648

[Lucas Christian Church SUP]

AN ORDINANCE OF THE CITY OF LUCAS, TEXAS AMENDING THE COMPREHENSIVE ZONING ORDINANCE AND MAP OF THE CITY OF LUCAS, TEXAS, TO GRANT A SPECIFIC USE PERMIT FOR THE OPERATION OF A CHURCH AND SCHOOL FACILITY FOR THE PROPERTY DESCRIBED IN EXHIBIT "A" ATTACHED HERETO, A TRACT OF LAND IN THE CITY OF LUCAS, TEXAS LOCATED AT 415 WEST LUCAS ROAD; PROVIDING A SEVERABILITY CLAUSE; PROVIDING 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 Lucas, Texas, and the governing body of the City of Lucas, in compliance with state laws with reference to amending the Comprehensive Zoning Ordinance and Map, 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 Lucas 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 LUCAS, TEXAS:

SECTION 1. That the Comprehensive Zoning Ordinance and Map of the City of Lucas, Texas, as heretofore amended, be and the same are hereby amended, to grant a change in zoning to grant a Special Use Permit to allow the use, construction, expansion, renovation, and operation of a church and place of worship and ancillary located at 415 West Lucas Road and being more particularly described in Exhibit "A" attached hereto and made a part hereof for all purposes.

SECTION 2. That the above-described property shall be used only in the manner and for the purposes provided for by the Comprehensive Zoning Ordinance of the City of Lucas as heretofore amended, and the regulations imposed within the R2 Single Family District, subject to the following conditions:

1. The Property may be used as a church and for religious worship and ancillary related uses and purposes, including but not limited to a private school operated by the Lucas Christian Church d/b/a Faith Fellowship;
2. The development of the property shall be in accordance with the site plan, a copy of which is attached hereto as Exhibit "B" and made a part hereof for all purposes;
3. There shall be no additional structures, temporary or permanent, situated, located, constructed or erected on the Property, other than those that currently exist as of the effective date of this Ordinance and those that are depicted on the site plan attached as Exhibit "B"; and
5. This Specific Use Permit is granted to the Lucas Christian Church d/b/a Faith Fellowship and shall be for a period of five (5) years or and from the effective date hereof, after which time it shall automatically terminate. Upon termination, no use or structure shall be grandfathered or considered or deemed to be a lawful nonconforming use or structure. The applicant/owner may, at any time prior to expiration of this Specific Use Permit, apply for a new Specific Use Permit and/or an extension hereof, in conjunction with the submission of a permanent master site plan.

SECTION 3. That should any section, sentence, clause, or phrase of this ordinance is for any reason held to be unconstitutional or otherwise invalid or unenforceable by a court of competent jurisdiction, such decision shall not affect the validity of the remaining sections, sentences, clauses, or phrases of this ordinance, the Comprehensive Zoning Ordinance, or the Code of Ordinances as an entirety, it being the legislative intent that the provisions of this ordinance are severable and that the ordinance shall continue in effect notwithstanding the invalidity of such section, sentence, clause, or phrase.

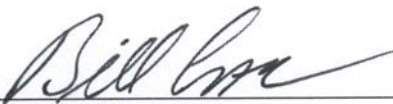
SECTION 4. That any person, firm or corporation violating any of the provisions or terms of this Ordinance shall be subject to the same penalty as provided for in the Code of Ordinances, as amended, and upon conviction in the municipal court shall be punished by a fine not to exceed the sum of Two Thousand Dollars (\$2,000.00) for each offense, and each and every day such violation shall continue shall be deemed to constitute a separate offense.

SECTION 5. That 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 provide.

DULY ADOPTED AND APPROVED by the City Council of the City of Lucas, Texas,
this the 4th day of June, 2009.

APPROVED:





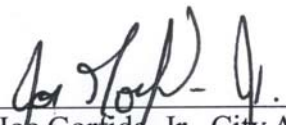
Bill Carmickle, Mayor

ATTEST:



Kathy Wingo, TRMC, City Secretary

APPROVED AS TO FORM:



Joe Gorfida, Jr., City Attorney
(JJG/cgo/03-31-09/35976))

EXHIBIT "A"

LEGAL DESCRIPTION

**Lucas Christian Church and Lucas Christian Academy
415 W. Lucas Road**

**A0538 LOVELADY, JAS, TRACT 16, ACRES 2.3340,
A0538 LOVELADY, JAS, TRACT 15, ACRES 2.8000,
A0538 LOVELADY, JAS, TRACT 69, ACRES 17.232**

EXHIBIT "B"

Lucas Christian Church

Site Plan 2009



☐	Annexation
☐	Disannexation
☐	Code of Ordinances
☒	Other

ORDINANCE # 2011-04-00679
[Specific Use Permit for 505 West Lucas Road]

AN ORDINANCE OF THE CITY OF LUCAS, TEXAS, AMENDING THE COMPREHENSIVE ZONING ORDINANCE AND MAP OF THE CITY OF LUCAS, TEXAS, AS HERETOFORE AMENDED, BY GRANTING A SPECIFIC USE PERMIT WITH SPECIAL CONDITIONS FOR THE OPERATION OF A PRIVATE SCHOOL FACILITY KNOWN AS LUCAS CHRISTIAN ACADEMY FOR THE PROPERTY DESCRIBED IN EXHIBIT "A" AND DEPICTED IN EXHIBIT "B" ATTACHED HERETO, A TRACT OF LAND IN THE CITY OF LUCAS, TEXAS, LOCATED AT 505 WEST LUCAS ROAD; PROVIDING A SEVERABILITY CLAUSE; PROVIDING A REPEALING CLAUSE; PROVIDING 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 Lucas, Texas, and the governing body of the City of Lucas, in compliance with state laws with reference to amending the Comprehensive Zoning Ordinance and Map, 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 Lucas 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 LUCAS, TEXAS:

SECTION 1. That the Comprehensive Zoning Ordinance and Map of the City of Lucas, Texas, as heretofore amended, be and the same are hereby amended, to grant a change in zoning to grant a Special Use Permit to allow the operation of a private school facility (Grade K-12) known as "Lucas Christian Academy" located at 505 West Lucas Road and being more particularly described in Exhibit "A" attached hereto and made a part hereof for all purposes.

SECTION 2. That the above-described property shall be used only in the manner and for the purposes provided for by the Comprehensive Zoning Ordinance of the City of Lucas as heretofore amended, and the regulations imposed within the R2 Single Family District, subject to the following conditions:

1. The Property may be used for a private school grades K-12 d/b/a as Lucas Christian Academy;

2. The development of the property shall be in accordance with the site plan, a copy of which is attached hereto as Exhibit "B" and made a part hereof for all purposes;
3. There shall be no additional structures, temporary or permanent, situated, located, constructed or erected on the Property, other than those that are depicted on the site plan attached as Exhibit "B";
4. The hours of operation for the campus shall be Monday through Saturday from 7:30 a.m. – 10 p.m.
5. Exterior field lighting shall be restricted to Tuesdays and Thursdays until 9 p.m.; Fridays and Saturdays until 10 p.m. Field lighting is not permitted at any other time.
6. A right turn lane and/or left turn lane shall be constructed on West Lucas Rd. if it is determined through a traffic study completed by the City that one or both are necessary.
7. An earthen berm with a minimum height of 5 feet or live evergreen landscape screening to a minimum of 5 feet shall be constructed on the rear parking lot prior to the completion of the parking lot.

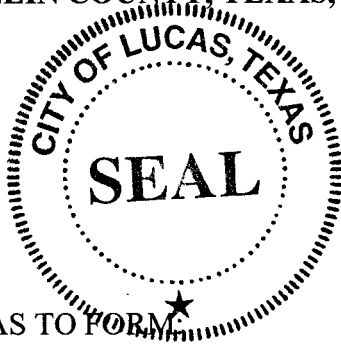
SECTION 3. That should any section, sentence, clause, or phrase of this ordinance is for any reason held to be unconstitutional or otherwise invalid or unenforceable by a court of competent jurisdiction, such decision shall not affect the validity of the remaining sections, sentences, clauses, or phrases of this ordinance, the Comprehensive Zoning Ordinance, or the Code of Ordinances as an entirety, it being the legislative intent that the provisions of this ordinance are severable and that the ordinance shall continue in effect notwithstanding the invalidity of such section, sentence, clause, or phrase.

SECTION 4. That all provisions of the ordinances of the City of Lucas 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 of Lucas not in conflict with the provisions of this ordinance shall remain 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 Code of Ordinances, as amended, and upon conviction in the municipal court shall be punished by a fine not to exceed the sum of Two Thousand Dollars (\$2,000.00) for each offense, and each and every day such violation shall continue shall be deemed to constitute a separate offense.

SECTION 6. That 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 provide.

DULY PASSED AND APPROVED BY THE CITY COUNSEL OF THE CITY OF LUCAS, COLLIN COUNTY, TEXAS, ON THIS 21st DAY OF APRIL, 2011.



APPROVED:

A handwritten signature in cursive script, appearing to read "Rebecca Mark", written over a horizontal line.

Rebecca Mark, Mayor

APPROVED AS TO FORM

ATTEST:

A handwritten signature in cursive script, appearing to read "Joe Gorfida, Jr.", written over a horizontal line.

Joe Gorfida, Jr., City Attorney
(JLG/04-20-11/49040)

A handwritten signature in cursive script, appearing to read "Kathy Wingo", written over a horizontal line.

Kathy Wingo, TRMC, CMC, City Secretary

EXHIBIT "A"

LEGAL DESCRIPTION

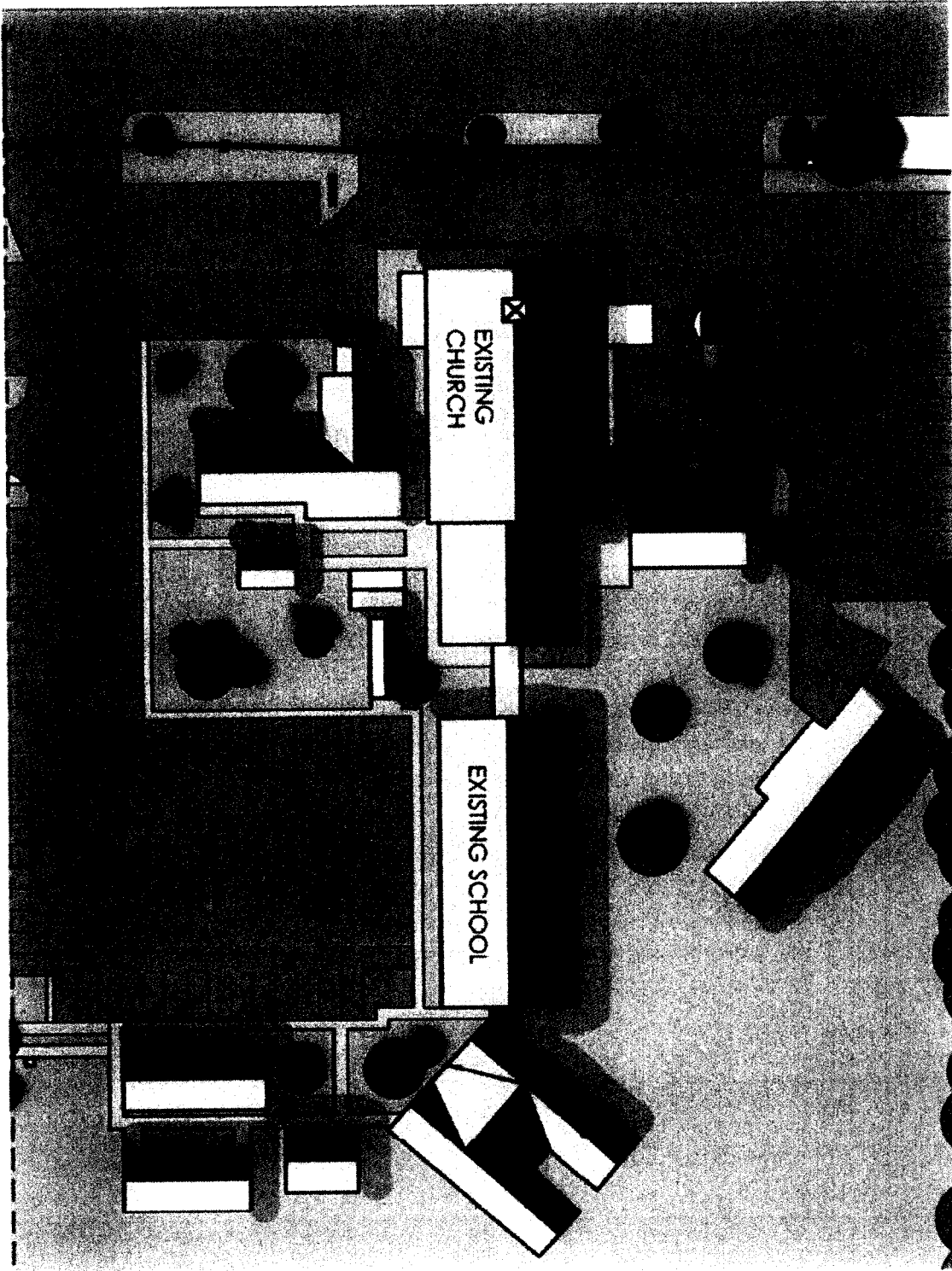
**Lucas Christian Church and Lucas Christian Academy
415 W. Lucas Road**

**A0538 LOVELADY, JAS, TRACT 16, ACRES 2.3340,
A0538 LOVELADY, JAS, TRACT 15, ACRES 2.8000,
A0538 LOVELADY, JAS, TRACT 69, ACRES 17.232**

EXHIBIT "B"

Lucas Christian Church

Site Plan 2009



TRAFFIC IMPACT ANALYSIS

LUCAS CHRISTIAN ACADEMY
WILLOW SPRINGS MIDDLE SCHOOL

Prepared for

City of Lucas

May 25, 2011

By

C&P Engineering, Ltd.

Dannie Cummings, P.E.



Dannie Cummings
5-25-2011



C&P Engineering, Ltd.

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(972) 644-2800 • Texas Registration No. F-3185

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EXECUTIVE SUMMARY

The purpose of conducting this TIA was to determine the impact of the vehicular traffic projected to be generated by two new school sites on the adjacent roadway system - specifically on Lucas (F.M. 1378) Road. The two school sites are the Willow Springs Middle School (WSMS) and the Lucas Christian Academy (LCA).

The intersections included in this study for analysis and evaluation included the following six (6) locations: the LCA's two driveway intersections with Lucas Road; the WSMS's two driveway intersections with Lucas Road; Country Club Road and Lucas Road; and Southview Drive and Lucas Road.

A brief description of the traffic controls measures that are recommended in this report have been listed below. A more detailed description is included in the "Recommendations" section beginning on page 43 of this report.

WILLOW SPRINGS MIDDLE SCHOOL - Provide westbound left-turn lanes on Lucas at both school driveways; provide an eastbound right-turn lane on Lucas at the east school driveway; and implement a reduced speed limit school zone on Lucas adjacent to the school site.

LUCAS CHRISTIAN ACADEMY - Provide a westbound left-turn lane on Lucas at the west school driveway; provide an eastbound right-turn lane on Lucas at the west school driveway; implement a reduced speed limit school zone on Lucas adjacent to the school site; and consider the use of off-duty police officers to control exiting traffic at the east school driveway.

COUNTRY CLUB ROAD AND LUCAS ROAD - We recommend that the City submit this report to TxDOT as supporting documentation for the construction of an eastbound left-turn lane at this intersection.

SOUTHVIEW DRIVE AND LUCAS ROAD - We recommend that the City submit this report to TxDOT as supporting documentation for the construction of a southbound left-turn lane and westbound and northbound right-turn lanes at this intersection.

**TRAFFIC IMPACT ANALYSIS
LUCAS CHRISTIAN ACADEMY
WILLOW SPRINGS MIDDLE SCHOOL
CITY OF LUCAS**

INTRODUCTION

C&P Engineering has conducted a traffic impact analysis and prepared this report in response to the City's request to study the traffic impact of two school sites on traffic operations along Lucas Road. The two school sites addressed in this study are the Lucas Christian Academy (LCA) and the Willow Springs Middle School (WSMS).

The LCA is an existing private school located at 415 West Lucas Road. A new and larger facility is currently planned to be located immediately west of its present location and will be open for classes in the fall of 2012 with a projected maximum student enrollment occurring by 2014.

In addition to classrooms, the new LCA site will include a gymnasium, a theater, a dining hall, a family gathering site, and athletic fields.

The WSMS is a new facility to be constructed by the Lovejoy ISD on the south side of Lucas Road just west of Country Club Road. It too is scheduled to be open for classes in the fall of 2012, but with a projected maximum student enrollment occurring by 2020 .

In addition to classrooms, the WSMS site will include tennis courts, an athletic field, and a football field with bleachers and a running track.

A location map has been included as Figure 1 on the next page of this report and aerial photographs of each site have been included in the Appendix.

PURPOSE AND SCOPE OF STUDY

The purpose of conducting this TIA was to determine the impact of the vehicular traffic projected to be generated by these two schools on the adjacent roadway system - specifically on Lucas (F.M. 1378) Road. The intersections included in this study for analysis and evaluation included the following six (6) locations: the LCA's two driveway intersections with Lucas Road; the WSMS's two driveway intersections with Lucas Road; Country Club Road and Lucas Road; and Southview Drive and Lucas Road.

Our analyses and evaluations conducted for this study addressed the following issues:

- Traffic operations at all six (6) of the study intersections;
- The need for right-turn deceleration / storage lanes;
- The need for left-turn deceleration / storage lanes; and
- The need for reduced speed limit school zones.

This TIA will address the traffic impact at the six (6) study intersections under four scenarios: existing 2011 conditions; opening year of both school sites (projected for 2012); full build out of the LCA school site (projected for 2014); and full build out of the WSMS site (projected for 2020).

LUCAS CHRISTIAN ACADEMY (LCA)

C&P collected and obtained the LCA data contained in this section of the report through conversations with Julie Montgomery, Interim Dean of Academics, and through a review of a TIA report prepared by Tom Walton and dated April 2009.

PROPOSED SITE LAYOUT

An exhibit depicting the proposed LCA site has been included in the Appendix to this report. The site will be served by two driveways on Lucas Road. During the morning and afternoon peak hours the west driveway will operate as an entrance only drive and the east driveway as an exit only drive. This will apply only to the school traffic.

The east driveway will function as a common access driveway with the Faith Fellowship Church. Vehicles traveling to and from the church site will be able to enter and exit through the east driveway at all times.

Our trip distributions and traffic assignments assume the above described driveway operations.

EDUCATION MODEL

The education model being used at the LCA facility is quite different from most public or private schools. The following excerpts from their website help describe their unique approach to education.

Lucas Christian Academy is a Certified University-Model School (UMS). This is a proven educational model that integrates the parents (mentoring their students) in partnership with highly qualified professional instructors to gain better academic and spiritual development of the student. It integrates the home and school in the common goal of producing godly men and women who will become difference makers in the Kingdom of God.

The UMS takes the best aspects of public, private, and home schools and molds them into one model. UMS uses a university-style schedule adapted to elementary, junior, and senior high levels. Professional teachers conduct central classroom instruction. Students attend classes on Mondays, Wednesdays, and Fridays and/or Tuesdays and Thursdays. Students spend alternate days at home where parents continue their instruction or monitor their student's progress. Teachers provide parents with detailed instructions for days spent at home in the satellite classroom (1 to 1.5 hours of study per course).

STUDENT ENROLLMENT

The LCA site has a current enrollment of 273 students and a projected build out enrollment of 464 students. Table 1 has been prepared to summarize the student enrollment breakdown between grade levels. The opening year student enrollment numbers were obtained by interpolation between the 2011 and the 2014 enrollment numbers.

TABLE 1
LCA Student Enrollment

STUDENT GRADE LEVEL	CURRENT 2011	OPENING 2012	BUILD OUT 2014
Elementary School	98 students	140 students	232 students
Junior High School	55 students	60 students	72 students
High School	120 students	130 students	160 students
TOTAL	273 students	330 students	464 students

STUDENT BREAKDOWN BY CLASS SCHEDULE

Table 2 has been developed to summarize the current breakdown of LCA students by their choice of a Monday-Wednesday-Friday schedule or a Tuesday-Thursday schedule.

TABLE 2
LCA Student Class Schedule Breakdown

STUDENT GRADE LEVEL	MONDAY-WEDNESDAY- FRIDAY SCHEDULE	TUESDAY-THURSDAY SCHEDULE
Elementary School	98 students	0 students
Junior High School	55 students	23 students
High School	120 students	82 students
TOTAL	273 students	105 students

As can be seen in Table 2 the LCA will experience its highest traffic volumes during the Monday-Wednesday-Friday schedule of classes.

CLASS TIMES

Classes begin at 8:00 a.m. and end at 3:30 p.m. for students attending the Monday-Wednesday-Friday class schedule. For students attending the Tuesday-Thursday schedule, classes begin at 8:30 a.m. and end at 4:00 p.m.

WILLOW SPRINGS MIDDLE SCHOOL (WSMS)

C&P collected and obtained the WSMS data contained in this section of the report through a review of the Lovejoy ISD web site and through a review of a TIA report prepared by Halff Associates, Inc. and dated November 2010.

PROPOSED SITE LAYOUT

An exhibit depicting the proposed WSMS site has been included in the Appendix to this report. This site will also be served by two driveways on Lucas Road. The Halff Associates report identified the east driveway as the planned primary entrance for parents dropping off and picking up students.

The current paving plan prepared by PBK includes an eastbound right-turn deceleration/storage lane at that east driveway.

Our trip distributions and traffic assignments assume the above described driveway operations.

STUDENT ENROLLMENT

The WSMS site has a projected opening year enrollment of 430 students and a projected build out enrollment of 850 students. Table 3 has been prepared to summarize this student enrollment information.

TABLE 3
WSMS Student Enrollment

GRADE LEVEL	OPENING 2012	BUILD OUT 2020
Middle School	430 students	850 students

CLASS TIMES

Class times for the middle school will be somewhat similar to those of the LCA. Classes will typically begin at 7:30 - 8:00 a.m. each morning and will typically end between 3:00 - 4:00 p.m. each afternoon.

STUDY AREA TRAFFIC CONDITIONS

Lucas Road fronts both school sites and is the primary roadway directly serving both schools. It is a two-lane undivided asphalt road with 6-foot shoulders west of Country Club Road and minimal shoulders east of Country Club Road. The speed limit along this section of the Lucas Road is posted at 50 mph.

24-hour bi-directional machine count were taken at five (5) locations in the study area on Tuesday May 10, 2011. Those locations and a summary of the count data collected at each location are summarized in the following paragraphs.

Lucas Road west of Country Club Road . . . This count indicated an average daily two-way traffic volume of 8,743 vehicles per day (4,181 eastbound and 4,562 westbound).

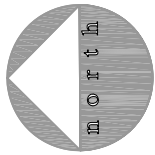
Lucas Road adjacent to the LCA site . . . This count indicated an average daily two-way traffic volume of 12,377 vehicles per day (6,328 eastbound and 6,049 westbound).

Lucas Road east of Southview Drive . . . This count indicated an average daily two-way traffic volume of 7,588 vehicles per day (3,758 eastbound and 3,830 westbound).

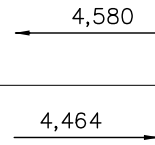
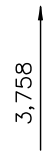
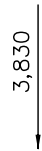
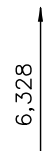
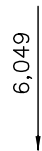
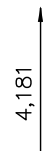
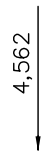
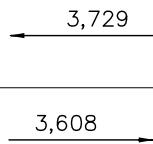
Country Club Road north of Lucas Road . . . This count indicated an average daily two-way traffic volume of 7,737 vehicles per day (3,729 northbound and 3,608 southbound).

Southview Drive south of Lucas Road . . . This count indicated an average daily two-way traffic volume of 9,044 vehicles per day (4,580 northbound and 4,464 southbound).

Figure 2 has been prepared to depict the existing 24-hour daily traffic volumes along Lucas Road, Country Club Road, and Southview Drive. Computer printouts of the traffic count data collection have been included in the Appendix.



Country
Club



Southview

LEGEND	
X,XXX	24-HOUR DAILY TRAFFIC



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2011 EXISTING VOLUMES

Scale:	N/A	Date:	MAY 2011
Job No.:	11020	Dwg. File:	FIGURE 2

Manual turning movement counts were collected at two existing signalized intersections on Lucas Road on Tuesday May 10, 2011. Counts were collected during the 7:00 - 9:00 a.m. and 2:00 - 5:00 p.m. periods in order to quantify the amount of street traffic occurring during the school peak hour traffic periods.

Those locations and a summary of the count data collected at each location are summarized in the following paragraphs.

LUCAS ROAD AND COUNTRY CLUB ROAD

A.M. School Peak Hour . . . The count indicated a morning school peak hour (7:15 - 8:15) volume of 1,410 total entering vehicles.

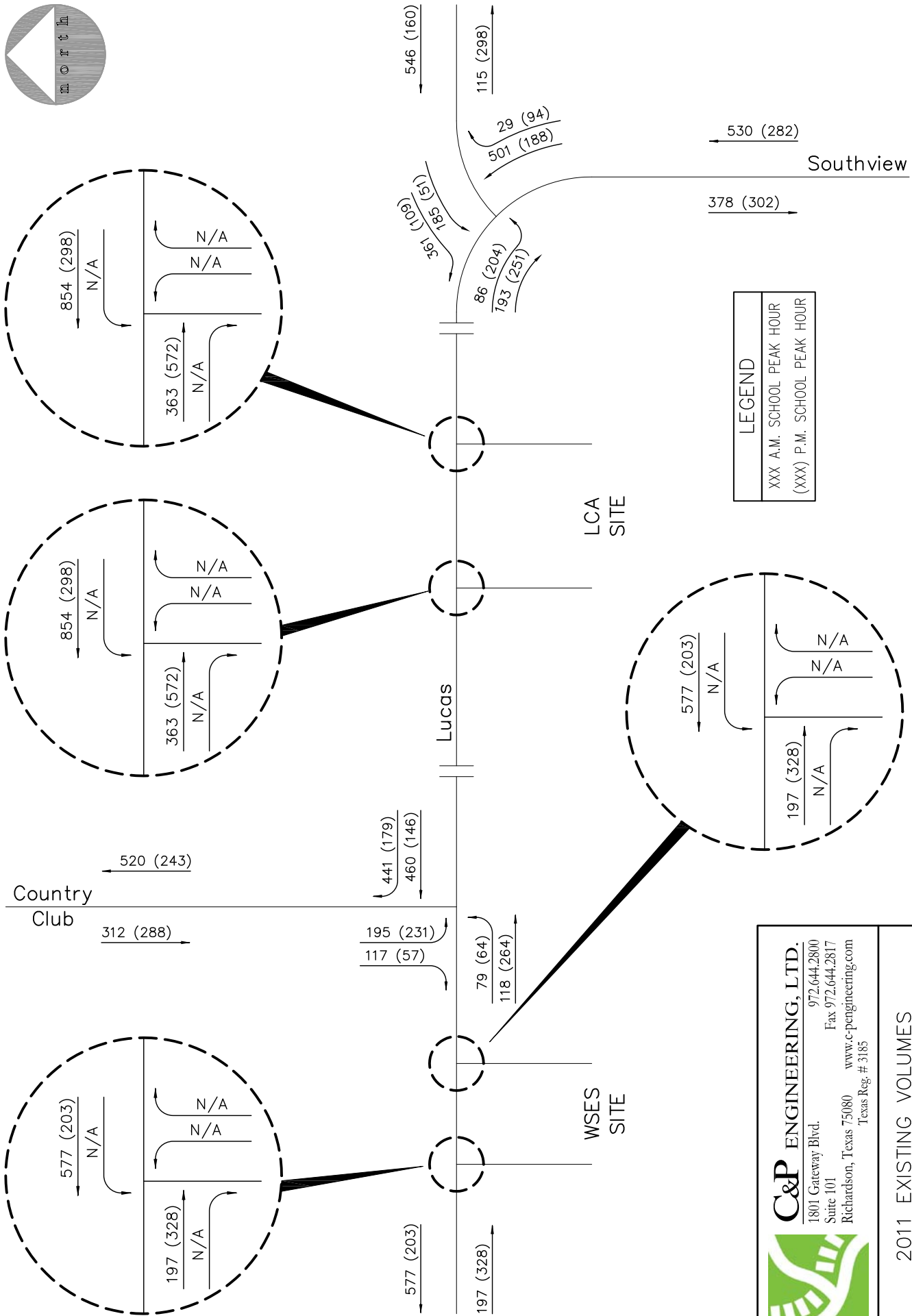
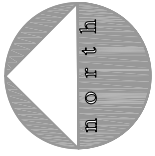
P.M. School Peak Hour . . . The count indicated an afternoon school peak hour (3:00 - 4:00) volume of 954 total entering vehicles.

LUCAS ROAD AND SOUTHVIEW DRIVE

A.M. School Peak Hour . . . The count indicated a morning school peak hour (7:15 - 8:15) volume of 1,357 total entering vehicles.

P.M. School Peak Hour . . . The count indicated an afternoon school peak hour (3:00 - 4:00) volume of 898 total entering vehicles.

Figure 3 has been prepared to depict the existing a.m. and p.m. school peak hour traffic volumes along Lucas Road through its intersections with Country Club Road and Southview Drive. Computer printouts of the traffic count data collection have been included in the Appendix.





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2011 EXISTING VOLUMES		
Scale: N/A	Date: MAY 2011	
Job No.: 11020	Dwg. File: FIGURE 3	

TRIP GENERATION CHARACTERISTICS

Estimated vehicle trip ends to and from the two school sites were determined using different methodologies.

WILLOW SPRINGS MIDDLE SCHOOL

For the WSMS vehicle trip ends to and from the study area were calculated utilizing trip generation rates and characteristics collected and compiled by the Institute of Transportation Engineers (ITE) in the eighth edition of their *Trip Generation Handbook*. Tables 4 and 5 have been prepared to summarize the associated trip generation data and the calculated trips that are anticipated to be generated by the institutional land use associated with the WSMS site. Copies of the ITE data sheets used to develop these tables have been attached to this report.

TABLE 4
WSMS Trip Generation Data

LAND USE AND YEAR	ITE CODE	UNITS	QUANTITY
Middle School:			
Opening Year - 2012	522	Students	430
Build Out Year - 2020	522	Students	850

The trips indicated in Table 5 are the total unadjusted traffic volumes for the proposed WSMS study site.

TABLE 5
WSMS Calculated Trip Ends

YEAR	ADT (vpd)	A.M. PEAK HOUR		P.M. PEAK HOUR	
		IN (vph)	OUT (vph)	IN (vph)	OUT (vph)
Opening - 2012	697	128	104	60	73
Build Out - 2020	1,377	252	207	119	145

(ADT = average daily trips; vpd = vehicles per day; vph = vehicles per hour; in = vehicles entering the site; and out = vehicles exiting the site)

LUCAS CHRISTIAN ACADEMY

The standard study approach that would have been used to determine the number of vehicular trips that the LCA site would generate in its opening and build out years would normally be to use trip rates for private schools as provided by ITE's *Trip Generation Handbook*.

Data for public or private schools using the UMS instruction model is not currently available in the ITE data. As a result, we collected current inbound and outbound vehicular trip data at the two existing school driveways to determine the projected opening year and build out year trip information. The data collected has been summarized in Table 6.

TABLE 6
LCA Driveway Traffic Volume Data

CLASS SCHEDULE	INBOUND VOLUME (VPH)	OUTBOUND VOLUMES (VPH)	NUMBER OF STUDENTS
Mon-Wed-Fri			
Morning Peak	117	69	273
Afternoon Peak	65	124	273
Tue-Thur			
Morning Peak	37	8	105
Afternoon Peak	29	23	105

These inbound and outbound school peak hour volumes when divided by the student enrollment numbers yield the trip generation data that we used in determining the vehicular traffic volumes associated with the opening and build out years of the LCA. Table 7 has been prepared to summarize the trip generation rates calculated for use in this study.

TABLE 7
LCA Trip Generation Rates

CLASS SCHEDULE	A.M. PEAK HOUR		P.M. PEAK HOUR	
	IN	OUT	IN	OUT
Mon-Wed-Fri	0.429	0.252	0.238	0.454
Tue-Thur	0.352	0.076	0.276	0.219

The trips indicated in Table 8 are the total unadjusted traffic volumes for the proposed LCA study site. These volumes are based on the trip rates associated with the Monday-Wednesday-Friday class schedule since this schedule has the larger number of students and the higher trip rates.

TABLE 8
LCA Calculated Trip Ends

YEAR	ADT (vpd)	A.M. PEAK HOUR		P.M. PEAK HOUR	
		IN (vph)	OUT (vph)	IN (vph)	OUT (vph)
Opening - 2012	735	142	83	79	150
Build Out - 2014	1,035	199	117	110	211

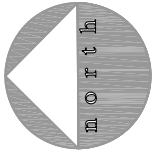
(ADT = average daily trips; vpd = vehicles per day; vph = vehicles per hour; in = vehicles entering the site; and out = vehicles exiting the site)

DISTRIBUTION OF VEHICULAR TRIPS

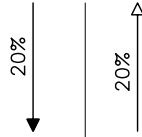
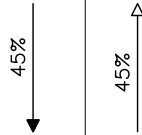
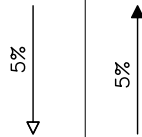
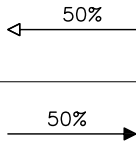
The trip ends summarized in the previous Tables 4 and 7 for the WSMS site and the LCA site respectively, were distributed to and from the study area based on the following distribution keys:

- the schools' locations with respect to adjacent and nearby major roadways;
- existing traffic patterns as evidenced by the collected traffic counts;
- the Lovejoy ISD boundary; and
- the patterns used in the previous traffic studies conducted for both schools.

Figures 4 and 5 have been prepared to depict the distribution patterns developed for this study: Figure 4 displays the distribution pattern for the WSMS site; and Figure 5 the LCA site.

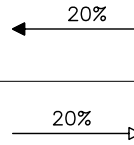


Country
Club



Lucas

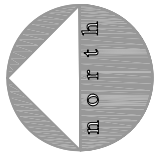
WSMS
SITE



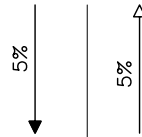
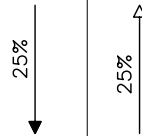
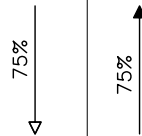
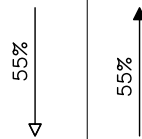
Southview

LEGEND	
—	INBOUND
—	OUTBOUND

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WSMS DISTRIBUTION PATTERN	
Scale: N/A	Date: MAY 2011
Job No.: 11020	Dwg. File: FIGURE 4



Country
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Lucas

LCA
SITE



Southview

LEGEND	
—	INBOUND
—	OUTBOUND



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LCA DISTRIBUTION PATTERN		
Scale:	N/A	Date: MAY 2011
Job No.:	11020	Dwg. File: FIGURE 5

PROJECTED TRAFFIC VOLUMES

SCHOOL SITE TRAFFIC VOLUMES

Figures 6, 7, and 8 have been prepared to depict the “site volumes” anticipated to be distributed to and from the two schools during the morning and afternoon school peak hour periods.

Figure 6 depicts the traffic volumes anticipated to be generated by both schools in 2012 - the opening year projected for both school sites.

Figure 7 depicts the traffic volumes anticipated to be generated by both school sites in 2014 - the build out year projected for the LCA site.

Figure 8 depicts the traffic volumes anticipated to be generated by both school sites in 2020 - the build out year projected for the WSMS site.

BACKGROUND TRAFFIC VOLUMES

For this study “background volumes” represents the traffic expected to occur along Lucas Road, Country Club Road, and Southview Drive as a result of the increase in traffic volumes due to normal traffic growth in the area and due to trip generators other than the WSMS and LCA sites.

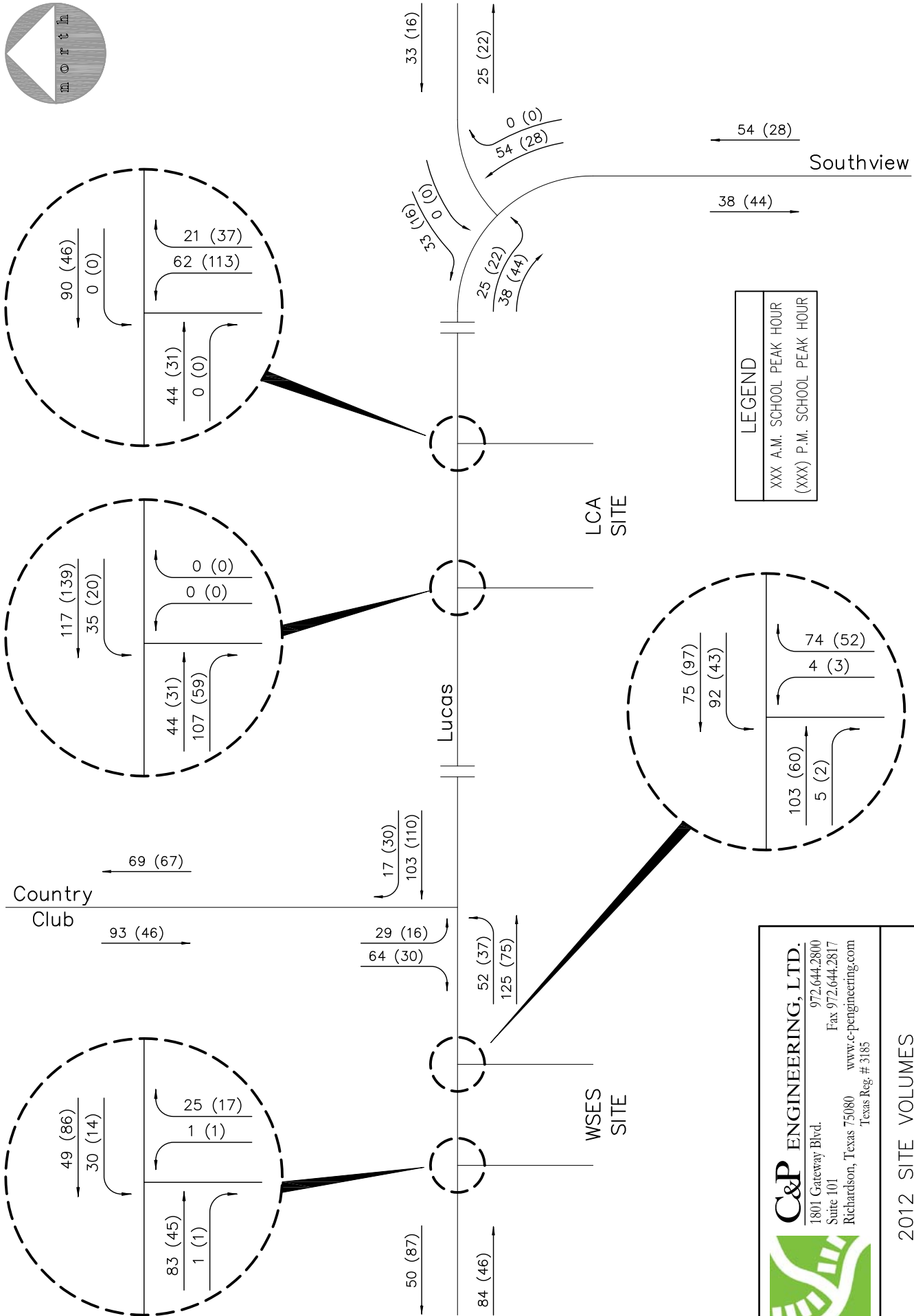
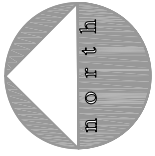
Figures A1, A2, and A3 have been prepared to depict the background volumes that are anticipated to occur during the morning and afternoon school peak hour periods.

Figure A1 depicts the background traffic volumes anticipated to occur in 2012 - the opening year projected for both school sites.

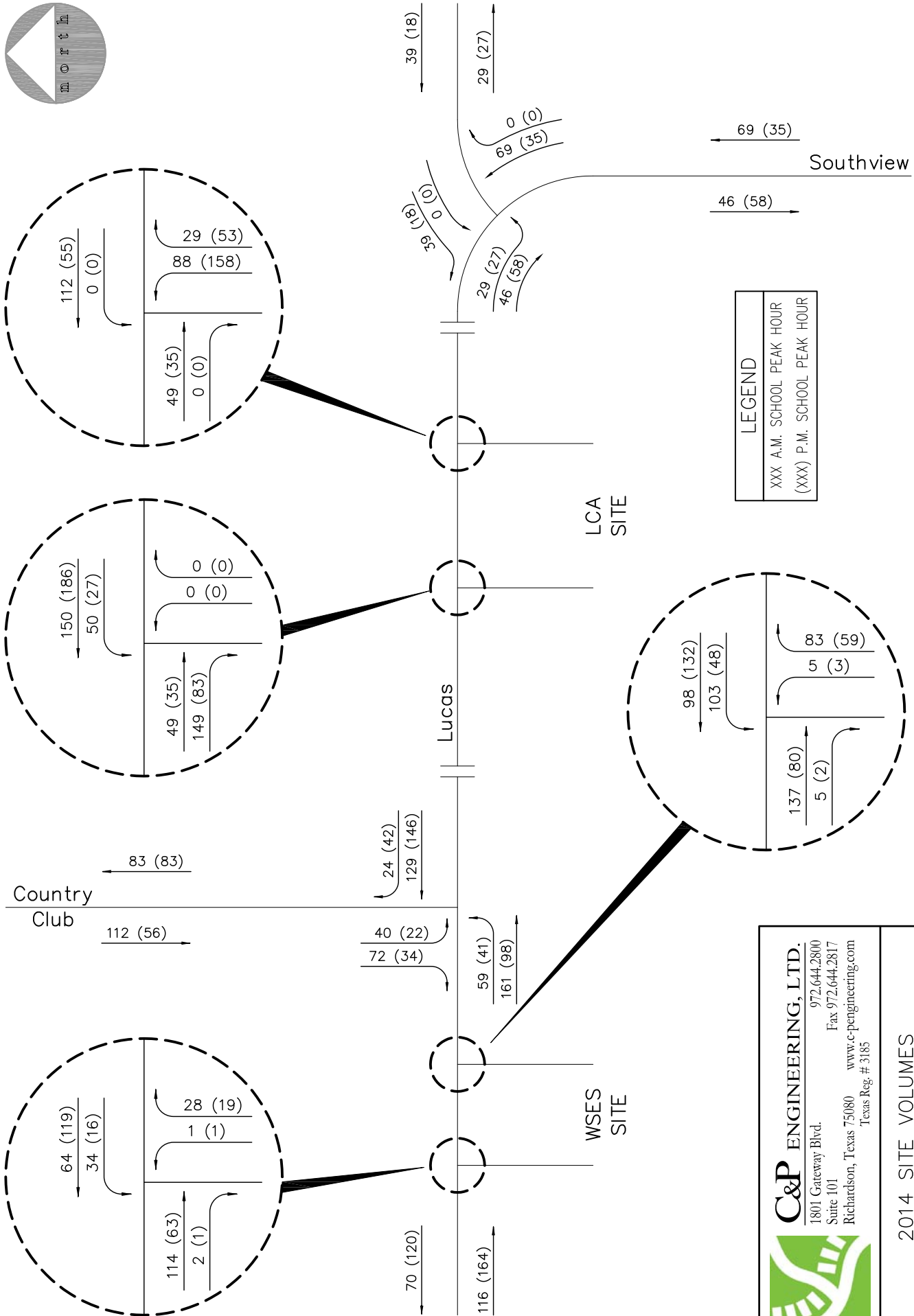
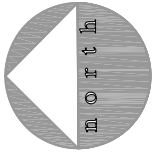
Figure A2 depicts the background traffic volumes anticipated to occur in 2014 - the build out year projected for the LCA site.

Figure A3 depicts the background traffic volumes anticipated to occur in 2020 - the build out year projected for the WSMS site.

The volumes in Figures A1, A2, and A3 reflect the current year 2011 volumes extrapolated to the respective year (2012, 2014, and 2020) by applying a two (2) percent annual growth rate. This is the same rate used by Halff Associates in their TIA for the WSMS site. These three figures have been included in the Appendix.



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2012 SITE VOLUMES	
Scale: N/A	Date: MAY 2011
Job No.: 11020	Dwg. File: FIGURE 6



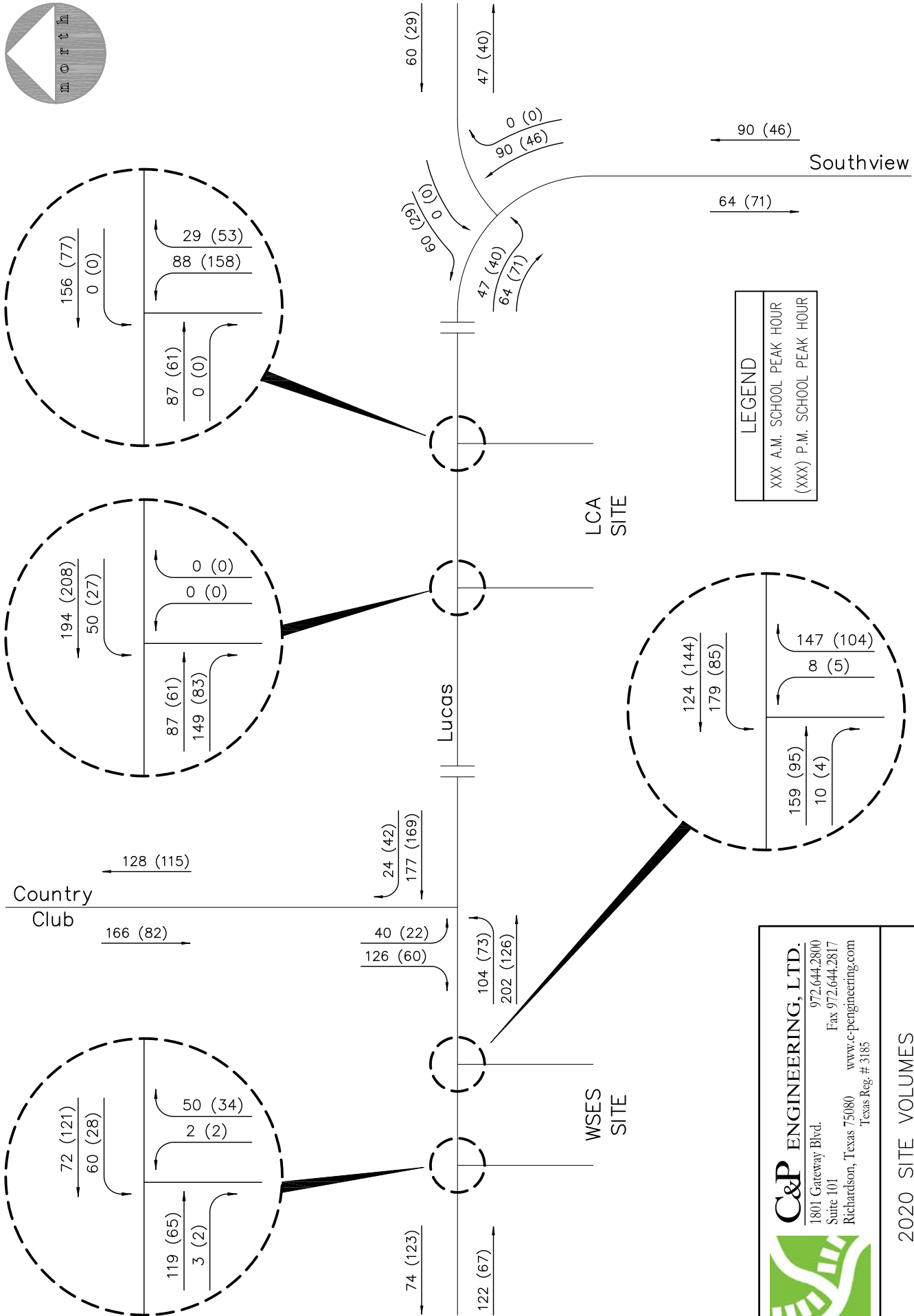
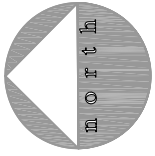


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2014 SITE VOLUMES

Scale: N/A	Date: MAY 2011
Job No.: 11020	Dwg. File: FIGURE 7



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2020 SITE VOLUMES

Scale:	N/A	Date:	MAY 2011
Job No.:	11020	Dwg. File:	FIGURE 8

TOTAL TRAFFIC VOLUMES

Figures 9, 10, and 11 have been prepared to depict the “total volumes” anticipated to occur at the six study intersections and along Lucas Road, Country Club Road, and Southview Drive during the morning and afternoon school peak hour periods.

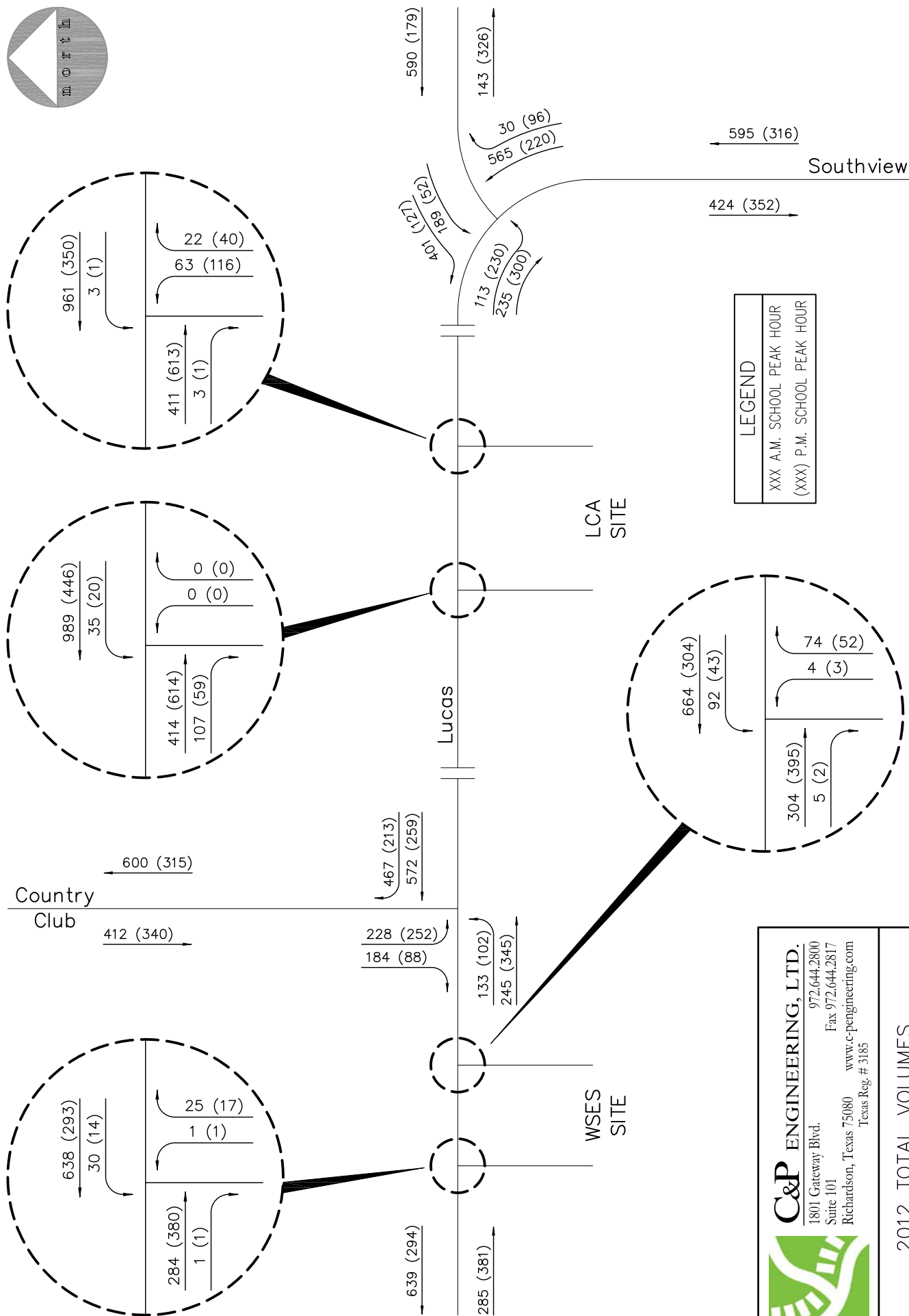
Figure 9 depicts the total traffic volumes anticipated to occur in 2012 - the opening year projected for both school sites.

Figure 10 depicts the total traffic volumes anticipated to occur in 2014 - the build out year projected for the LCA site.

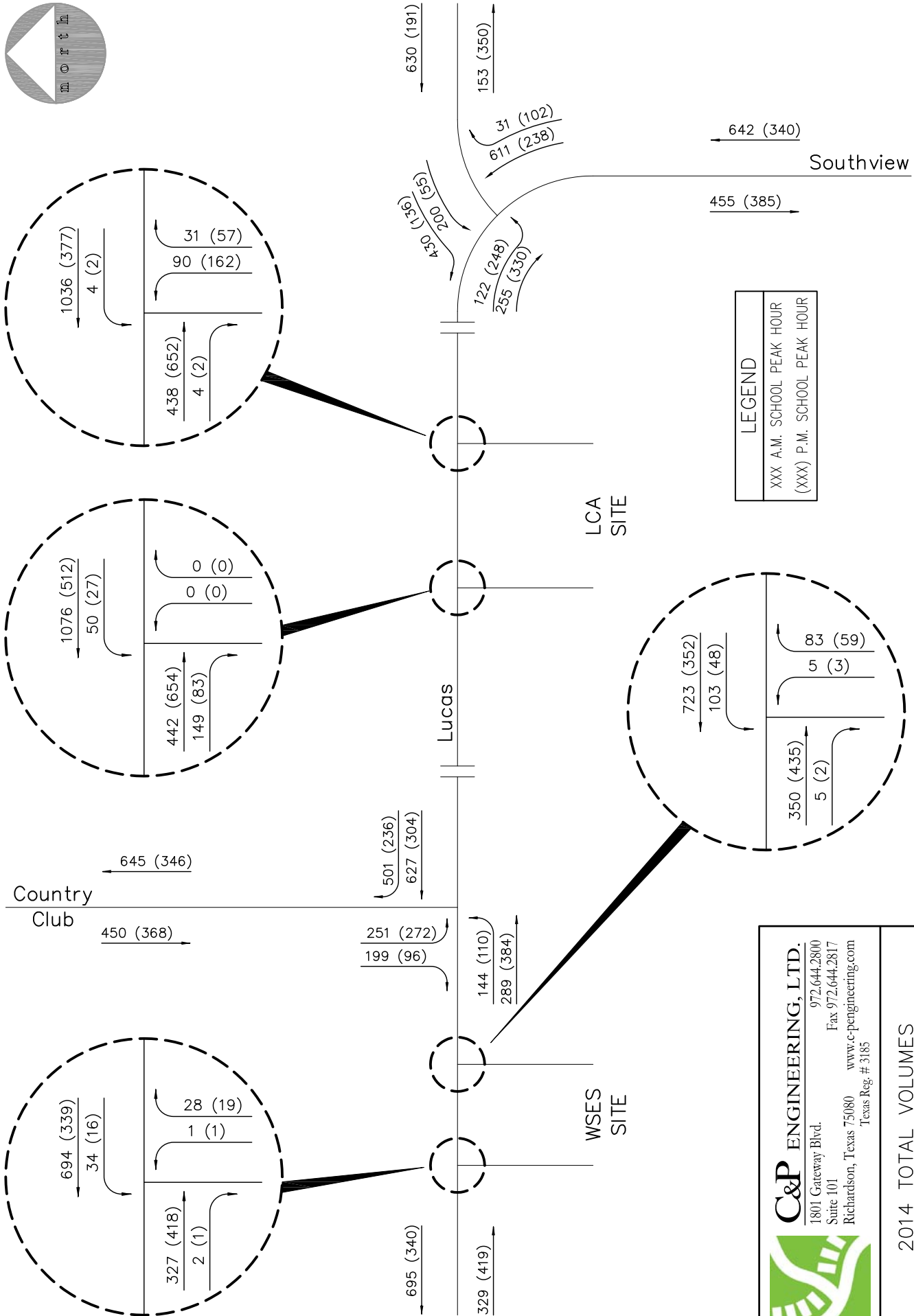
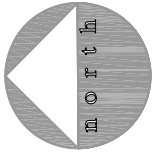
Figure 11 depicts the total traffic volumes anticipated to occur in 2020 - the build out year projected for the WSMS site.

The total volumes depicted in Figures 9, 10, and 11 include two components:

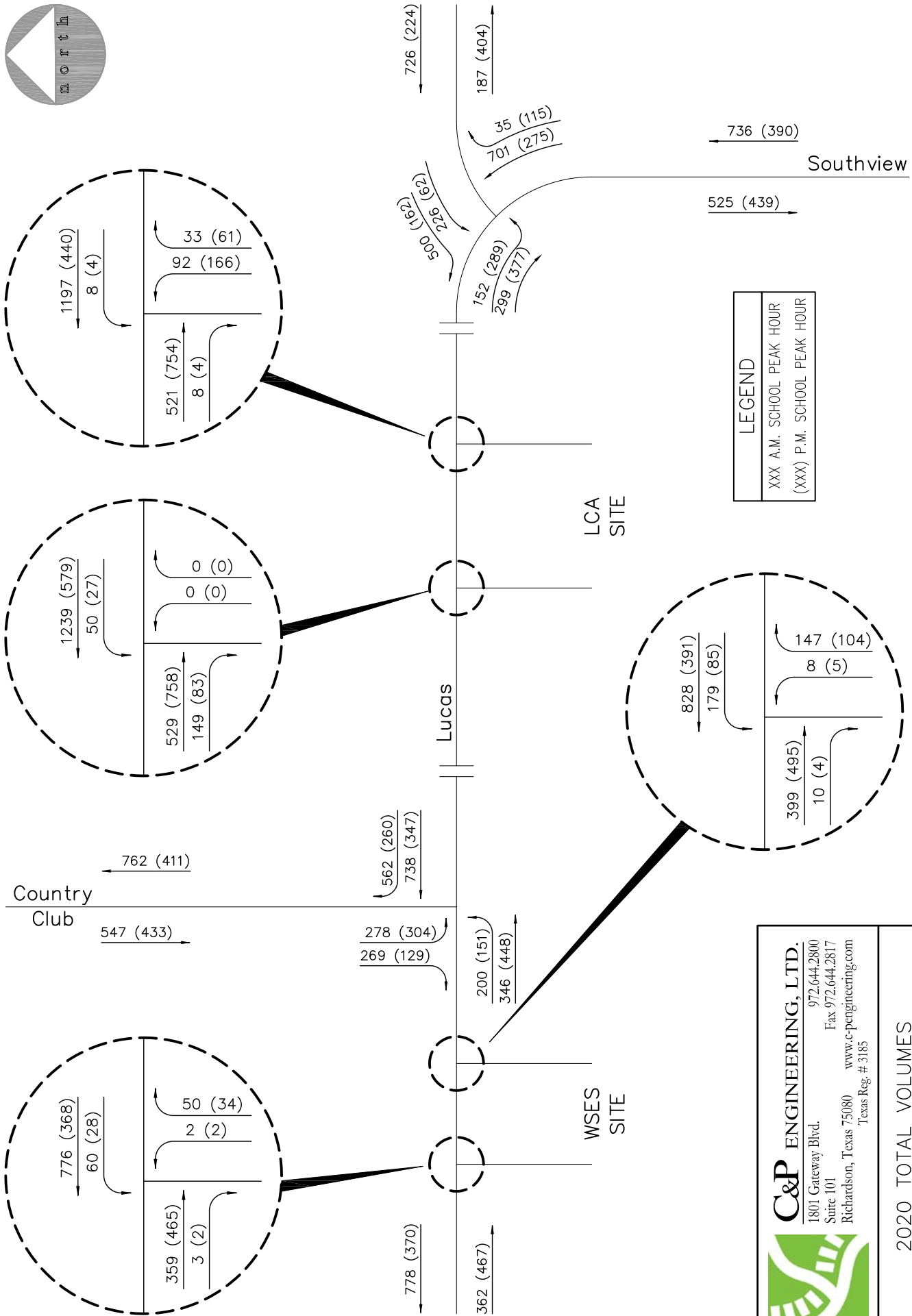
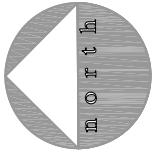
the school site traffic summarized in Figures 6, 7, and 8; and
the background traffic summarized in Figures A1, A2, and A3.



2012 TOTAL VOLUMES	
Scale: N/A	Date: MAY 2011
Job No.: 11020	Dwg. File: FIGURE 9



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2014 TOTAL VOLUMES	
Scale: N/A	Date: MAY 2011
Job No.: 11020	Dwg. File: FIGURE 10



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2020 TOTAL VOLUMES	
Scale: N/A	Date: MAY 2011
Job No.: 11020	Dwg. File: FIGURE 11

INTERSECTION CAPACITY ANALYSIS

The Consultant performed analyses of the traffic operations at the six study intersections under four scenarios: existing 2011 conditions; opening year of both school sites (projected for 2012); full build out of the LCA school site (projected for 2014); and full build out of the WSMS site (projected for 2020).

Analysis of the stop sign controlled school driveways was conducted utilizing the current edition of the Highway Capacity Manual (HCM2000) and its associated software. HCM2000 was developed by the Transportation Research Board while the software was developed by the Transportation Research Center at the University of Florida.

Analysis of the two signalized city roadway intersections was conducted utilizing Synchro. This software was developed by the Trafficware Corporation.

The results of the capacity analysis for the six study intersections with the resulting delay and levels of service values are summarized in the following paragraphs of this section of the report.

Copies of the HCM and Synchro computer printouts have been included in the Appendix. Typically the desirable levels of service are "A" through "D" with "E" and "F" being undesirable. A general description of the various levels of service has also been included in the Appendix.

WILLOW SPRINGS MIDDLE SCHOOL DRIVEWAY INTERSECTIONS

Tables 9 and 10 have been prepared to summarize the results of the capacity analysis conducted for the two driveways serving the proposed WSMS site.

**TABLE 9
WSMS WEST SCHOOL DRIVEWAY**

PEAK PERIOD AND MOVEMENT	DELAY (sec.) / LEVEL OF SERVICE			
	EXISTING 2011	OPENING 2012	2014	BUILD OUT 2020
A.M. Peak:				
WB Left	N/A	8.0 / A	8.1 / A	8.3 / A
NB Left	N/A	20.6 / C	23.5 / C	29.8 / D
NB Right	N/A	10.2 / B	10.5 / C	11.0 / B
NB Total	N/A	10.5 / B	10.9 / B	11.7 / B
P.M. Peak:				
WB Left	N/A	8.3 / A	8.4 / A	8.6 / A
NB Left	N/A	15.4 / C	17.0 / C	19.3 / C
NB Right	N/A	11.0 / B	11.4 / B	12.1 / B
NB Total	N/A	11.2 / B	11.6 / B	12.5 / A

The results in Table 9 indicate that very acceptable traffic operations can be expected to occur during all three of the study year conditions - 2012, 2014, and 2020.

TABLE 10
WSMS EAST SCHOOL DRIVEWAY

PEAK PERIOD AND MOVEMENT	DELAY (sec.) / LEVEL OF SERVICE			
	EXISTING 2011	OPENING 2012	2014	BUILD OUT 2020
A.M. Peak:				
WB Left	N/A	8.2 / A	8.4 / A	9.0 / A
NB Left	N/A	27.0 / D	32.7 / D	57.9 / F
NB Right	N/A	10.8 / B	11.4 / B	13.0 / B
NB Total	N/A	11.6 / B	12.5 / B	15.1 / C
P.M. Peak:				
WB Left	N/A	8.4 / A	8.6 / A	9.0 / A
NB Left	N/A	17.4 / C	19.6 / C	25.3 / D
NB Right	N/A	11.6 / B	12.1 / B	13.9 / B
NB Total	N/A	11.9 / B	12.5 / B	14.4 / B

The results in Table 10 indicate that very acceptable traffic operations can be expected to occur during the 2012 and 2014 study year conditions. By build out of the WSMS site in 2020 the left-turning traffic exiting the east driveway during the morning peak period is projected to be experiencing poor traffic operations at an undesirable "F" service level.

We should point out that the "F" service level is applicable to a minimal number of vehicles. Only eight (8) vehicles are projected to turn left from this driveway at build out in 2020.

LUCAS CHRISTIAN ACADEMY DRIVEWAY INTERSECTIONS

Tables 11 and 12 have been prepared to summarize the results of the capacity analysis conducted for the two driveways serving the proposed LCA site.

TABLE 11
LCA WEST SCHOOL DRIVEWAY

PEAK PERIOD AND MOVEMENT	DELAY (sec.) / LEVEL OF SERVICE			
	EXISTING 2011	OPENING 2012	BUILD OUT 2014	2020
A.M. Peak: WB Left NB Left NB Right	N/A N/A N/A	8.8 / A N/A N/A	9.1 / A N/A N/A	9.5 / A N/A N/A
P.M. Peak: WB Left NB Left NB Right	N/A N/A N/A	9.4 / A N/A N/A	9.7 / A N/A N/A	10.3 / B N/A N/A

Because the west driveway is proposed to be operated as an entrance only drive during school drop off and pick up periods, the results in Table 11 indicate that very acceptable traffic operations can be expected to occur during the 2012, 2014, and 2020 study year conditions.

TABLE 12
LCA EAST SCHOOL DRIVEWAY

PEAK PERIOD AND MOVEMENT	DELAY (sec.) / LEVEL OF SERVICE			
	EXISTING 2011	OPENING 2012	BUILD OUT 2014	2020
A.M. Peak:				
WB Left	N/A	8.3 / A	8.4 / A	8.7 / A
NB Left	N/A	61.9 / F	137.7 / F	350.4 / F
NB Right	N/A	11.2 / B	11.6 / B	12.5 / B
NB Total	N/A	49.0 / E	105.7 / F	262.3 / F
P.M. Peak:				
WB Left	N/A	9.0 / A	9.2 / A	9.7 / A
NB Left	N/A	39.5 / E	85.3 / F	193.4 / F
NB Right	N/A	14.2 / B	15.4 / C	17.7 / C
NB Total	N/A	33.1 / D	67.2 / F	146.1 / F

The results in Table 12 indicate that poor traffic operations and undesirable service levels can be expected to occur beginning in the opening year of the LCA site in 2012. These poor traffic operational conditions will continue to worsen through build out of the site in 2014 and continuing on into 2020.

The most impacted movement will be the northbound left-turning traffic exiting from the east driveway onto Lucas Road which will operate at an "F" service level.

COUNTRY CLUB ROAD AND LUCAS ROAD

Table 13 has been prepared to summarize the results of the capacity analysis conducted for the signalized intersection of Country Club Road and Lucas Road.

TABLE 13
COUNTRY CLUB ROAD AND LUCAS ROAD

PEAK PERIOD AND APPROACH	DELAY (sec.) / LEVEL OF SERVICE			
	EXISTING 2011	2012	2014	2020
A.M. Peak:				
EB Total	7.0 / A	12.0 / B	13.7 / B	72.1 / E
WB Through	8.2 / A	9.1 / A	8.6 / A	9.1 / A
WB Right	2.2 / A	2.0 / A	1.8 / A	1.7 / A
SB Left	12.9 / A	25.1 / C	36.9 / D	64.8 / E
SB Right	3.9 / A	5.6 / A	6.7 / A	8.0 / A
Overall	6.4 / A	9.6 / A	11.4 / B	28.1 / C
P.M. Peak:				
EB Total	10.1 / B	10.9 / B	13.5 / B	16.0 / B
WB Through	7.2 / A	7.1 / A	7.8 / A	7.0 / A
WB Right	2.4 / A	1.9 / A	1.8 / A	1.5 / A
SB Left	11.4 / B	15.5 / B	21.8 / C	34.3 / C
SB Right	3.8 / A	4.3 / A	5.1 / A	5.5 / A
Overall	8.1 / A	9.1 / A	11.3 / B	14.4 / B

The results in Table 13 indicate that very acceptable traffic operations and service levels are currently occurring at this intersection during the morning and afternoon school peak hours. Acceptable operations and service levels can be expected to continue through the 2012 and 2014 study year conditions. However, our projections indicate that by 2020 two traffic movements will be experiencing poor traffic operations and undesirable service levels during the morning school peak hour: the eastbound traffic on Lucas and the southbound left-turn traffic on Country Club.

SOUTHVIEW DRIVE AND LUCAS ROAD

Table 14 has been prepared to summarize the results of the capacity analysis conducted for the signalized intersection of Country Club Road and Lucas Road.

TABLE 14
SOUTHVIEW DRIVE AND LUCAS ROAD

PEAK PERIOD AND APPROACH	DELAY (sec.) / LEVEL OF SERVICE			
	EXISTING 2011	2012	2014	2020
A.M. Peak:				
WB Total	21.2 / C	40.1 / D	65.8 / E	153.0 / F
NB Through	14.4 / B	14.6 / B	15.2 / B	15.6 / B
NB Right	5.7 / A	6.1 / A	6.3 / A	5.8 / A
SB Total	13.9 / B	19.4 / B	24.7 / C	86.3 / F
Overall	16.8 / B	25.4 / C	36.5 / D	84.2 / F
P.M. Peak:				
WB Total	8.3 / A	9.5 / A	11.4 / B	15.2 / B
NB Through	4.3 / A	4.0 / A	3.7 / A	3.9 / A
NB Right	1.4 / A	1.2 / A	1.3 / A	1.5 / A
SB Total	7.9 / A	8.1 / A	8.4 / A	13.2 / B
Overall	6.6 / A	6.8 / A	7.3 / A	10.5 / B

The results in Table 14 indicate that very acceptable traffic operations and service levels are currently occurring at this intersection during the morning and afternoon school peak hours. Acceptable operations and service levels can be expected to continue through the opening year for both schools in 2012. However, our projections indicate that by 2014 the morning school peak period will begin to experience poor traffic operations and undesirable service levels. By 2020 the westbound traffic on Lucas and the southbound traffic on Lucas will be experiencing very poor traffic operations with an "F" service level.

RIGHT-TURN LANE ANALYSIS

Table 2-3 in the *Access Management Manual (AMM)* details the TxDOT approach for analyzing the need for right-turn only lanes. That publication indicates a threshold value of 50 right-turning vehicles per hour when the posted speed limit exceeds 45 mph and 60 right-turning vehicles when the posted speed limit is 45 mph or less. The results of our right-turn lane analysis for the six study intersections are summarized in the following paragraphs of this section of the report.

WILLOW SPRINGS MIDDLE SCHOOL

Tables 15 and 16 have been prepared to summarize the results of the right-turn lane analysis conducted for the two driveways serving the proposed WSMS site.

TABLE 15
Right-Turn Lane Analysis Results
West School Driveway

PEAK PERIOD BY YEAR	PROJECTED RIGHT TURNS (VPH)	REQUIRED TURNS BY TXDOT (VPH)	TURN LANE WARRANTED?
A.M. Peak Hour			
2012	1	50	NO
2014	2	50	NO
2020	3	50	NO
P.M. Peak Hour			
2012	1	50	NO
2014	1	50	NO
2020	2	50	NO

Based on the conditions set forth in the *AMM*, the inbound right-turning traffic projected to be generated by the WSMS site will not warrant consideration of a right-turn deceleration lane at the west school driveway.

TABLE 16
Right-Turn Lane Analysis Results
East School Driveway

PEAK PERIOD	PROJECTED RIGHT TURNS (VPH)	REQUIRED TURNS BY TXDOT (VPH)	TURN LANE WARRANTED?
A.M. Peak Hour			
2012	5	50	NO
2014	5	50	NO
2020	10	50	NO
P.M. Peak Hour			
2012	2	50	NO
2014	2	50	NO
2020	4	50	NO

Based on the conditions set forth in the *AMM*, the inbound right-turning traffic projected to be generated by the WSMS site will not warrant consideration of a right-turn deceleration lane at the east school driveway.

LUCAS CHRISTIAN ACADEMY

Tables 17 and 18 have been prepared to summarize the results of the right-turn lane analysis conducted for the two driveways serving the proposed LCA site.

TABLE 17
Right-Turn Lane Analysis Results
West School Driveway

PEAK PERIOD	PROJECTED RIGHT TURNS (VPH)	REQUIRED TURNS BY TXDOT (VPH)	TURN LANE WARRANTED?
A.M. Peak Hour			
2012	107	50	YES
2014	149	50	YES
2020	149	50	YES
P.M. Peak Hour			
2012	59	50	YES
2014	83	50	YES
2020	83	50	YES

Based on the conditions set forth in the *AMM*, the inbound right-turning traffic projected to be generated by the LCA site will warrant consideration of a right-turn deceleration lane at the west school driveway.

TABLE 18
Right-Turn Lane Analysis Results
East School Driveway

PEAK PERIOD	PROJECTED RIGHT TURNS (VPH)	REQUIRED TURNS BY TXDOT (VPH)	TURN LANE WARRANTED?
A.M. Peak Hour			
2012	3	50	NO
2014	4	50	NO
2020	8	50	NO
P.M. Peak Hour			
2012	1	50	NO
2014	2	50	NO
2020	4	50	NO

Based on the conditions set forth in the *AMM*, the inbound right-turning traffic projected to be generated by both the LCA site and the church site will not warrant consideration of a right-turn deceleration lane at the east school driveway.

COUNTRY CLUB ROAD AND LUCAS ROAD

No right-turn lane analysis is required for this intersection, since right-turn only lanes are currently in place on the east and north approaches to this intersection.

SOUTHVIEW DRIVE AND LUCAS ROAD

A review of the existing 2011 traffic volumes (see Figure 3) reveals that TxDOT warranting criteria for right-turn only lanes is currently satisfied for both the northbound right-turn movement on Southview and the westbound right-turn movement on Lucas.

LEFT-TURN LANE ANALYSIS

Table 3-11 in the TxDOT *Design Manual* details the TxDOT approach for analyzing the need for left-turn only lanes on two-lane highways. The results of our left-turn lane analysis for the six study intersections are summarized in the following paragraphs of this section of the report.

WILLOW SPRINGS MIDDLE SCHOOL

Tables 19 and 20 have been prepared to summarize the results of the left-turn lane analysis conducted for the two driveways serving the proposed WSMS site.

TABLE 19
WSMS - West School Driveway
Left-Turn Lane Analysis
2012 Opening Year

ANALYSIS CONDITION	A.M. PEAK PERIOD	P.M. PEAK PERIOD
Opposing Volume	285 vph	381 vph
Design Speed	50 mph	50 mph
Left-Turns	30 vph - 4.5 %	14 vph - 4.4 %
Advancing Volume	668 vph	321 vph
Table 3-11 Advancing Volume	525 vph	475 vph
Left-Turn Lane To Be Considered?	Yes - $668 \geq 525$	No - $475 \geq 321$

Analysis of the projected 2012 opening year traffic volumes during the morning and afternoon school peak hour periods indicate that consideration of a westbound left-turn lane on Lucas Road at the west WSMS driveway is warranted.

TABLE 20
WSMS - East School Driveway
Left-Turn Lane Analysis
2012 Opening Year

ANALYSIS CONDITION	A.M. PEAK PERIOD	P.M. PEAK PERIOD
Opposing Volume	309 vph	397 vph
Design Speed	50 mph	50 mph
Left-Turns	92 vph - 12.2 %	43 vph - 12.4 %
Advancing Volume	756 vph	347 vph
Table 3-11 Advancing Volume	350 vph	310 vph
Left-Turn Lane To Be Considered?	Yes - $756 \geq 350$	Yes - $347 \geq 310$

Analysis of the projected 2012 opening year traffic volumes during the morning and afternoon school peak hour periods indicate that consideration of a westbound left-turn lane on Lucas Road at the east WSMS driveway is warranted.

LUCAS CHRISTIAN ACADEMY

Tables 21 and 22 have been prepared to summarize the results of the left-turn lane analysis conducted for the two driveways serving the proposed LCA site.

TABLE 21
LCA - West School Driveway
Left-Turn Lane Analysis
2012 Opening Year

ANALYSIS CONDITION	A.M. PEAK PERIOD	P.M. PEAK PERIOD
Opposing Volume	521 vph	663 vph
Design Speed	50 mph	50 mph
Left-Turns	35 vph - 3.4 %	20 vph - 4.3 %
Advancing Volume	1,024 vph	466 vph
Table 3-11 Advancing Volume	450 vph	400 vph
Left-Turn Lane To Be Considered?	Yes - $1,024 \geq 450$	Yes - $466 \geq 400$

Analysis of the projected 2012 opening year traffic volumes during the morning and afternoon school peak hour periods indicate that consideration of a westbound left-turn lane on Lucas Road at the west LCA driveway is warranted.

A detailed left-turn lane analysis was not conducted for the east LCA driveway. The circulation plan for the LCA site proposes that the east driveway operate as an exit only drive during the morning and afternoon school peak hours. As a result, the only inbound traffic at the east driveway will be a minimal number of vehicles associated with the Faith Fellowship Church.

COUNTRY CLUB ROAD AND LUCAS ROAD

A left-turn lane analysis was conducted for the eastbound left-turn on Lucas Road at Country Club Road. The existing traffic volumes easily satisfied the TxDOT warranting criteria for a left-turn only lane at that location.

SOUTHVIEW DRIVE AND LUCAS ROAD

A left-turn lane analysis was conducted for the southbound left-turn on Lucas Road at Southview Drive. The existing traffic volumes easily satisfied the TxDOT warranting criteria for a left-turn only lane at that location.

TxDOT warranting criteria in Table 3-11 of the *Design Manual* is not applicable to the stem of “tee” intersections - such as the east leg of this intersection.

REDUCED SPEED LIMIT SCHOOL ZONES

The 50 mph speed limit and the high traffic volumes on Lucas Road create a school area environment that should be improved through the installation of reduced speed limit school zones for each school site. Zones similar to the 35 mph zone on Country Club Road for Hart Elementary School should be considered.

KEY FINDINGS

This section of the report has been prepared to summarize the key findings that resulted from the analyses and evaluations conducted to this point of the study.

TRAFFIC VOLUMES

The heaviest traffic volumes are shown to occur on Lucas Road between Country Club Road and Southview Drive. This will significantly influence the traffic operations at the LCA site.

PEAK HOUR OPERATIONS

The school peak hours were found to occur during the 7:15 - 8:15 a.m. and 3:00 - 4:00 p.m. time periods. The morning school peak is the more critical because it coincides with the morning street peak hour.

TRIP GENERATION

During the morning school peak hour, the WSMS site will ultimately generate 459 trips (252 inbound and 207 outbound).

During the morning school peak hour, the LCA site will ultimately generate 316 trips (199 inbound and 117 outbound).

LOCATIONS OF UNDESIRABLE SERVICE LEVELS

WSMS Driveways . . . The east school driveway is projected to experience poor traffic operations and undesirable service levels beginning in approximately 2015. However, the undesirable service level is applicable to a minimal number of vehicles - possibly six (6) by 2015 and only eight (8) by 2020.

LCA Driveways . . . The east school driveway is projected to experience poor traffic operations and undesirable service levels beginning in the 2012 opening year.

Country Club and Lucas . . . Poor traffic operations and undesirable service levels are projected to occur at this intersection during the morning school peak hour in approximately 2018.

Southview and Lucas . . . Poor traffic operations and undesirable service levels are projected to occur at this intersection during the morning school peak hour in approximately 2014.

TXDOT RIGHT-TURN LANE WARRANTING CRITERIA

The projected right-turning traffic volumes at the following locations have satisfied the TxDOT criteria necessary to warrant consideration of a right-turn deceleration lane.

The eastbound right-turn on Lucas at the LCA west driveway will satisfy the TxDOT criteria in 2012.

The northbound right-turn on Southview at Lucas currently satisfies the TxDOT criteria. A very short right-turn lane currently exists at this location, but it primarily consists of the driveway apron serving the convenience store at this location.

The westbound right-turn on Lucas at Southview currently satisfies the TxDOT criteria.

TXDOT LEFT-TURN LANE WARRANTING CRITERIA

The projected left-turning traffic volumes at the following locations have satisfied the TxDOT criteria necessary to warrant consideration of a left-turn lane.

The westbound left-turns on Lucas at both WSMS driveways will satisfy the TxDOT criteria in 2012.

The westbound left-turn on Lucas at the west LCA driveway will satisfy the TxDOT criteria in 2012.

The eastbound left-turn on Lucas at Country Club currently satisfies the TxDOT criteria.

The southbound left-turn on Lucas at Southview currently satisfies the TxDOT criteria.

REDUCED SPEED LIMIT SCHOOL ZONES

It is our engineering judgement that the 50 mph speed limit and the high traffic volumes on Lucas Road create a school area environment that should be improved through the installation of reduced speed limit school zones for each school site.

RECOMMENDATIONS

This section of the report has been prepared to present the traffic related recommendations resulting from the analyses and evaluations conducted in this study.

WILLOW SPRINGS MIDDLE SCHOOL

Our study supports and we concur with the Halff TIA report that westbound left-turn lanes should be provided on Lucas Road to serve both WSMS driveways. With both driveways available for inbound and outbound school traffic volumes the need for a left-turn lane at each driveway is justified.

We would point out that our capacity analyses revealed that left-turning vehicles would be able to turn easily into the driveways and suffer very little delay. The service level for the left-turn movements was at very acceptable levels. However, we believe that the opportunity to reduce or eliminate potential road user accidents at this school site is sufficient to justify the need for the left-turn lanes.

The current Lovejoy ISD boundary is such that very few students are expected to arrive from or depart to the west. As a result, our traffic projections resulted in a maximum peak hour right-turn volume of only 10 vehicles. That was our projection for the build out year 2020 conditions during the morning peak hour at the east driveway.

While our study did not find a right-turn lane to be warranted at either WSMS driveway, we concur with the Halff TIA finding that a right-turn lane at the east driveway would provide a sheltered area in which vehicles could decelerate from the high speed approach and then more easily execute the right-turning maneuver.

The 50 mph speed limit and the high traffic volumes on Lucas Road create a school area environment that should be improved through the installation of reduced speed limit school zone for the WSMS site. A request for a speed zone similar to the 35 mph zone on Country Club Road for Hart Elementary School should be submitted to TxDOT.

LUCAS CHRISTIAN ACADEMY

Our study supports and we recommend that a westbound left-turn lane be provided on Lucas Road to serve the west LCA driveway. With the west driveway operating as an entrance only drive and the east driveway as an exit only drive during the morning and afternoon school periods the need for a left-turn lane at the west driveway is justified.

We would point out that our capacity analyses revealed that left-turning vehicles would be able to turn easily into this driveway and suffer very little delay. The service level for this left-turn movements was at a very acceptable levels. However, we believe that the opportunity to reduce or eliminate potential road user accidents at this school site is sufficient to justify the need for the left-turn lane.

Our study supports and we recommend that an eastbound right-turn lane be provided on Lucas Road to serve the west LCA driveway.

Because of the heavy traffic projected for Lucas Road the left-turn traffic from the east LCA driveway is projected to operate at a very undesirable service level at the opening of the new school site in 2012. The LCA board may want to consider the hiring of off-duty police officers to work the this driveway during school peak hours - especially for the Monday - Wednesday - Friday class schedule. They would have the authority to stop traffic on Lucas Road and allow the queue from the driveway to quickly dissipate - all in a safe and controlled manner.

The 50 mph speed limit and the high traffic volumes on Lucas Road create a school area environment that should be improved through the installation of reduced speed limit school zone for the WSMS site. A request for a speed zone similar to the 35 mph zone on Country Club Road for Hart Elementary School should be submitted to TxDOT.

COUNTRY CLUB ROAD AND LUCAS ROAD

We recommend that the City submit this report to TxDOT as supporting documentation for the construction of an eastbound left-turn lane at this intersection.

SOUTHVIEW DRIVE AND LUCAS ROAD

We also recommend that the City submit this report to TxDOT as supporting documentation for the construction of a southbound left-turn lane and westbound and northbound right-turn lanes at this intersection.

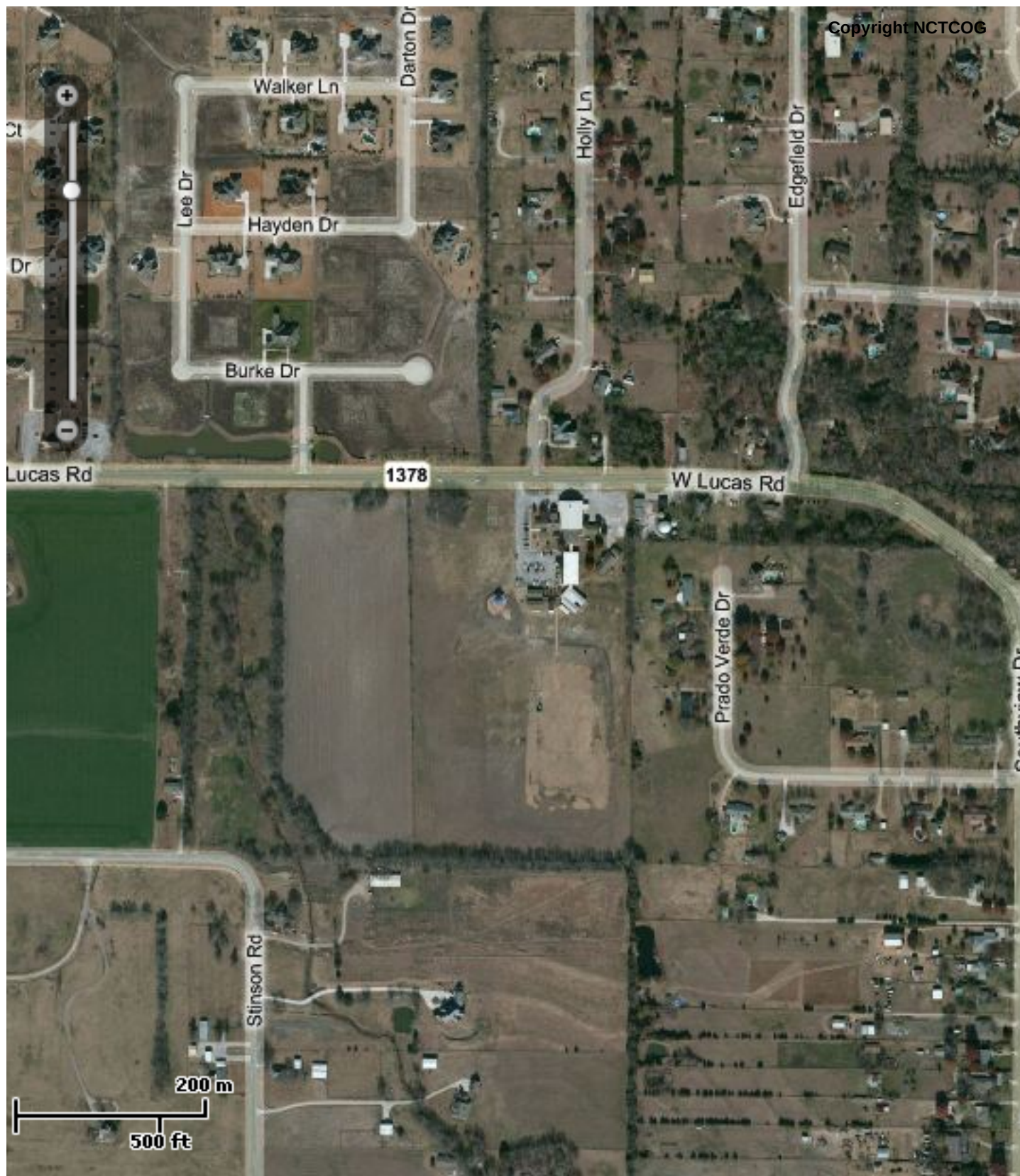
CLOSING

We have appreciated the opportunity to assist the City of Lucas in the evaluation and analysis of the traffic impacts of the Willow Springs Middle School and the Lucas Christian Academy on the City's street and highway system. Please do not hesitate to contact our office should you have any questions or comments concerning this report.

APPENDIX

Aerial Photographs	
Lucas Christian Academy	1 Page
Willow Springs Middle School	1 Page
Site Exhibits	
Lucas Christian Academy	1 Page
Willow Springs Middle School	2 Pages
Traffic Count Summary Sheets	
24-Hour Counts	10 Pages
Peak Hour Counts	4 Pages
ITE Trip Generation Sheets	3 Pages
Background Traffic Volumes	
Figure A1 - 2012	1 Page
Figure A2 - 2014	1 Page
Figure A3 - 2020	1 Page
Level of Service Description	1 Page
HCM Sheets	
WSMS West and East Driveways	12 Pages
LCA West and East Driveways	12 Pages
SYNCHRO Sheets	
Country Club Road and Lucas Road	16 Pages
Southview Drive and Lucas Road	16 Pages

AERIAL PHOTOGRAPHS



North Central Texas
Council of Governments

AERIAL - LCA SITE

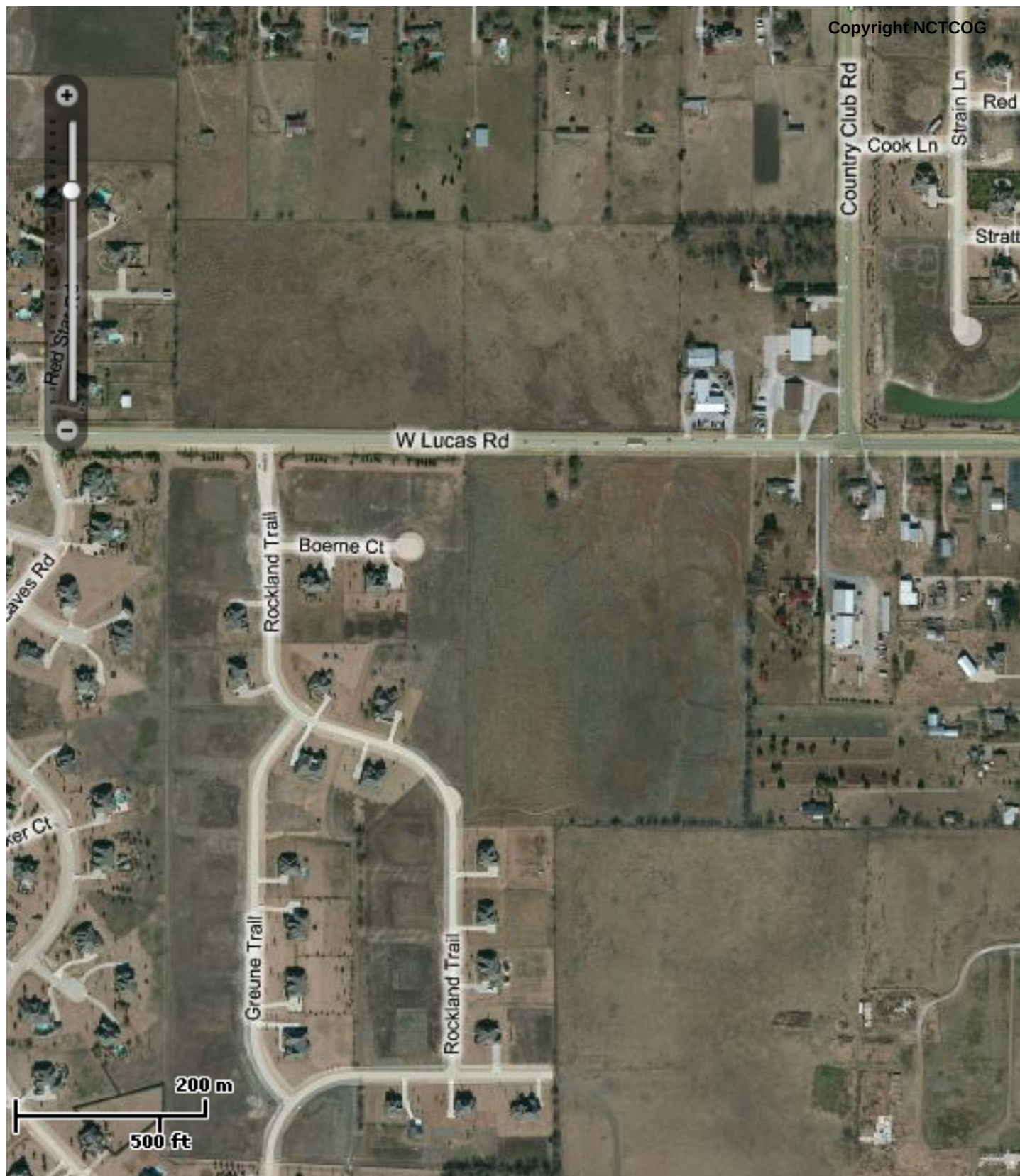
DFWMaps.com

<http://www.dfwmaps.com/#>

DISCLAIMER

This data has been compiled for NCTCOG. Various official and unofficial sources were used to gather this information. Every effort was made to ensure the accuracy of this data, however, no guarantee is given or implied as to the accuracy of said data.





North Central Texas
Council of Governments

AERIAL - WSMS SITE

DFWMaps.com

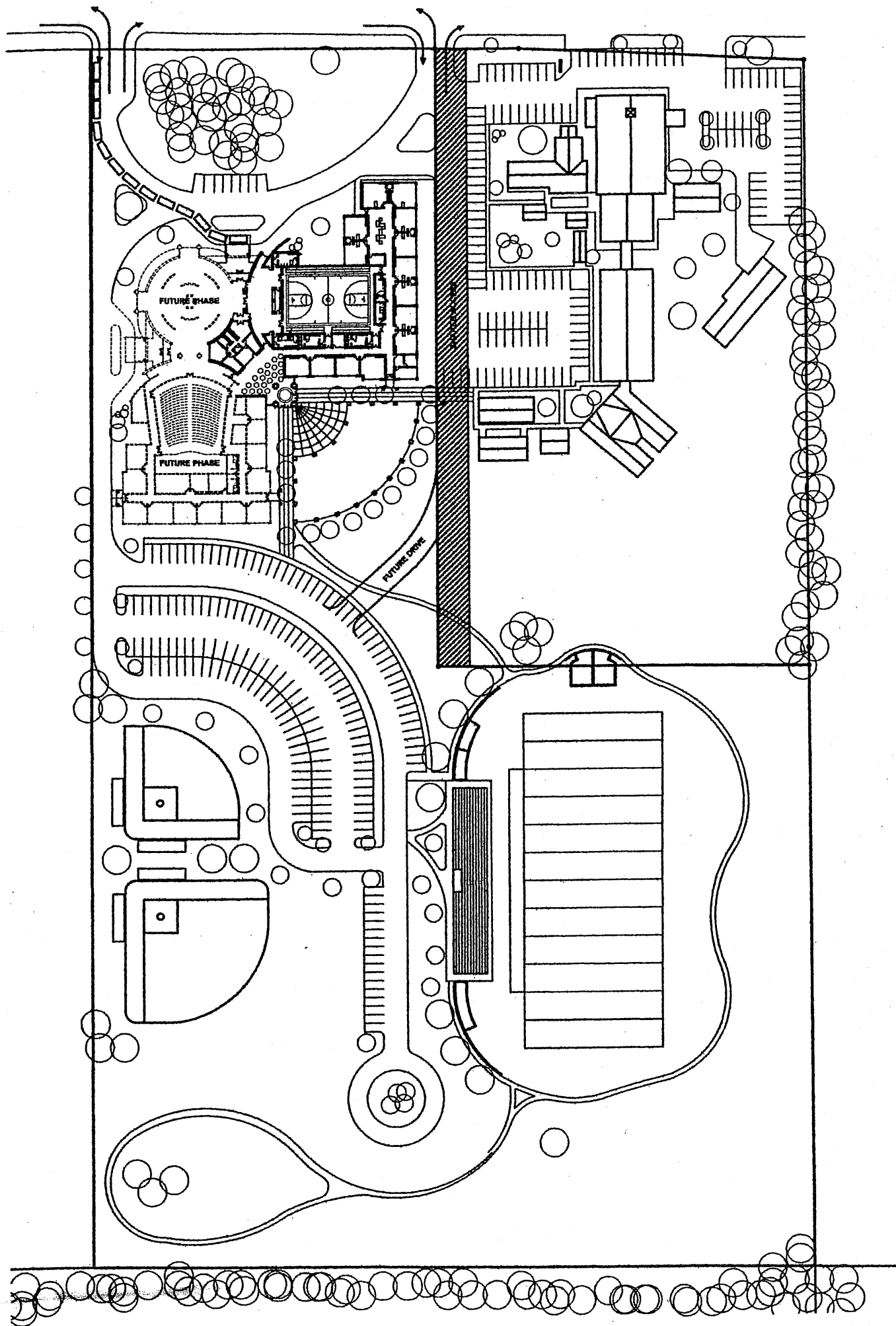
<http://www.dfwmaps.com/#>

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SITE EXHIBITS



Site plan for Option A - Original Version, dated 04/21/10. The plan shows a large central building with a central courtyard, surrounded by parking lots and a detention area. The site is bounded by Lucas Road to the north, a property line to the east, and another property line to the south. A landscape buffer is indicated along Lucas Road. The detention area is located to the east of the main building complex. The plan includes dimensions for the detention area and a scale bar.

Labels on the plan include: LUCAS ROAD, PROPERTY LINE, LANDSCAPE BUFFER, DETENTION AREA, and OPTION A - ORIGINAL VERSION 04/21/10.

LUCAS ROAD

PROPERTY LINE

LANDSCAPE BUFFERS

PROPERTY LINE

DETENTION AREA

OPTION A - ORIGINAL, VERSION
04/21/10

PROPERTY LINE

NEW
WILLOW SPRINGS
MIDDLE SCHOOL
Lovejoy Independent School District

PBSi
Architecture
Engineering
Planning
Facility Consulting

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REF. NO. 18354

WACCI H. DUBOIS PARTNERSHIP
BBB ACO
 Delta Texas 75260
 Phone 872-220-1123
 Fax 872-223-1179

PROJECT NO. 0942
DATE 09/04/10
DRAWN
CHECKED
REVISIONS

100% REVIEW SET

A1.01

COMPOSITE SITE PLAN

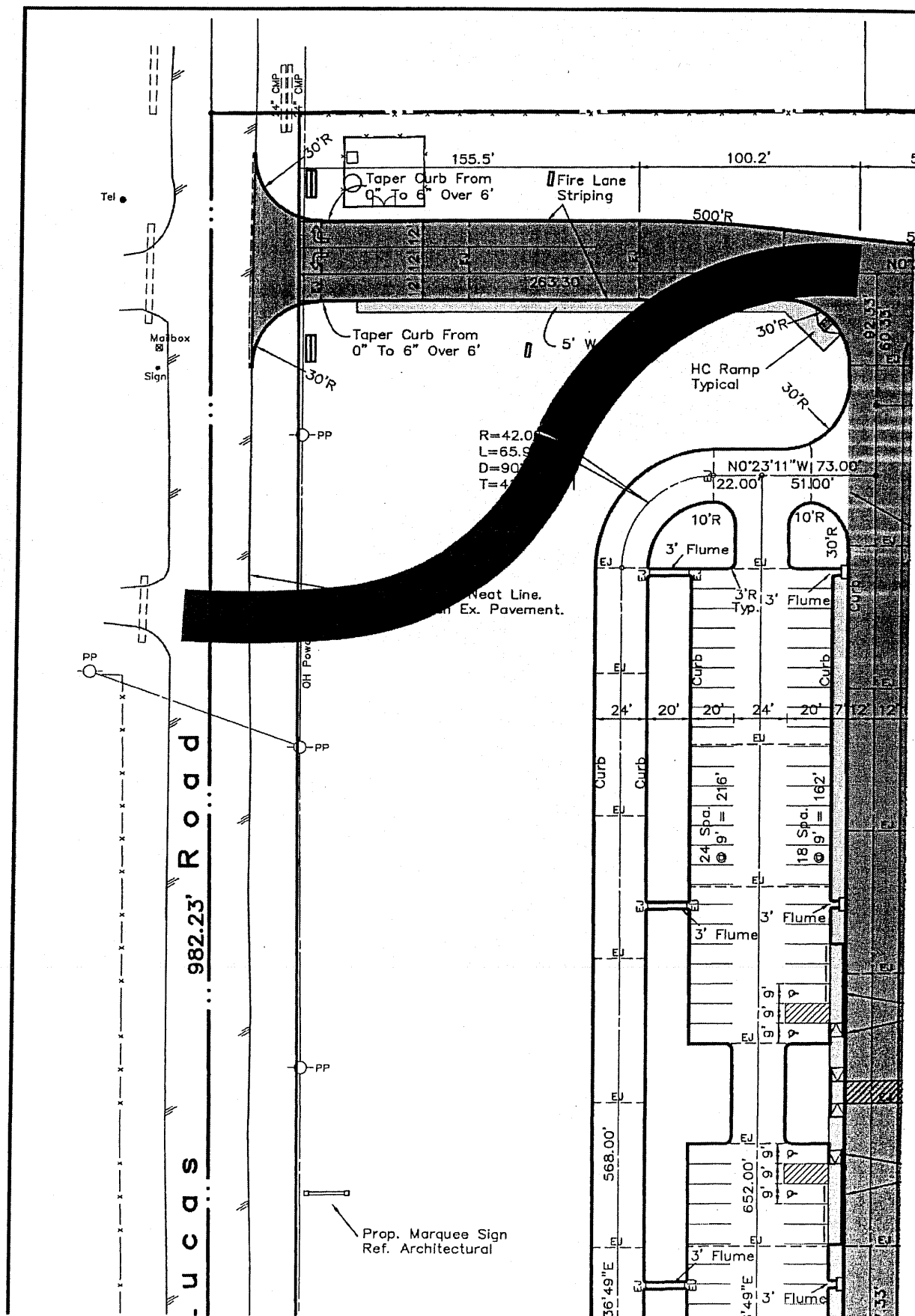
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TRAFFIC COUNT SUMMARY SHEETS

01 - COUNTRY CLUB RD NORTH OF LUCAS RD

Start Date: 5/10/2011

Start Time: 12:00:00 AM

Date	Time	NB	SB	TOTAL
5/10/2011	12:00 AM	2	8	10
5/10/2011	12:15 AM	3	5	8
5/10/2011	12:30 AM	0	7	7
5/10/2011	12:45 AM	1	4	5
5/10/2011	01:00 AM	3	2	5
5/10/2011	01:15 AM	2	2	4
5/10/2011	01:30 AM	1	3	4
5/10/2011	01:45 AM	0	0	0
5/10/2011	02:00 AM	2	2	4
5/10/2011	02:15 AM	3	2	5
5/10/2011	02:30 AM	2	3	5
5/10/2011	02:45 AM	2	0	2
5/10/2011	03:00 AM	1	1	2
5/10/2011	03:15 AM	2	0	2
5/10/2011	03:30 AM	1	0	1
5/10/2011	03:45 AM	1	1	2
5/10/2011	04:00 AM	1	2	3
5/10/2011	04:15 AM	3	2	5
5/10/2011	04:30 AM	5	1	6
5/10/2011	04:45 AM	7	2	9
5/10/2011	05:00 AM	9	5	14
5/10/2011	05:15 AM	13	9	22
5/10/2011	05:30 AM	18	3	21
5/10/2011	05:45 AM	13	21	34
5/10/2011	06:00 AM	24	10	34
5/10/2011	06:15 AM	43	30	73
5/10/2011	06:30 AM	59	31	90
5/10/2011	06:45 AM	89	33	122
5/10/2011	07:00 AM	80	40	120
5/10/2011	07:15 AM	108	52	160
5/10/2011	07:30 AM	150	71	221
5/10/2011	07:45 AM	188	118	306
5/10/2011	08:00 AM	118	90	208
5/10/2011	08:15 AM	96	49	145
5/10/2011	08:30 AM	85	67	152
5/10/2011	08:45 AM	109	76	185
5/10/2011	09:00 AM	84	55	139
5/10/2011	09:15 AM	48	49	97
5/10/2011	09:30 AM	61	50	111
5/10/2011	09:45 AM	61	37	98
5/10/2011	10:00 AM	51	41	92
5/10/2011	10:15 AM	50	38	88
5/10/2011	10:30 AM	48	28	76
5/10/2011	10:45 AM	52	46	98
5/10/2011	11:00 AM	49	37	86
5/10/2011	11:15 AM	46	44	90
5/10/2011	11:30 AM	36	46	82
5/10/2011	11:45 AM	49	44	93

5/10/2011 12:00 PM	42	53	95
5/10/2011 12:15 PM	57	42	99
5/10/2011 12:30 PM	49	54	103
5/10/2011 12:45 PM	46	39	85
5/10/2011 01:00 PM	40	43	83
5/10/2011 01:15 PM	46	53	99
5/10/2011 01:30 PM	48	70	118
5/10/2011 01:45 PM	62	42	104
5/10/2011 02:00 PM	42	73	115
5/10/2011 02:15 PM	50	57	107
5/10/2011 02:30 PM	52	68	120
5/10/2011 02:45 PM	71	52	123
5/10/2011 03:00 PM	65	89	154
5/10/2011 03:15 PM	65	103	168
5/10/2011 03:30 PM	60	76	136
5/10/2011 03:45 PM	65	61	126
5/10/2011 04:00 PM	51	83	134
5/10/2011 04:15 PM	56	100	156
5/10/2011 04:30 PM	43	78	121
5/10/2011 04:45 PM	78	69	147
5/10/2011 05:00 PM	61	77	138
5/10/2011 05:15 PM	56	100	156
5/10/2011 05:30 PM	63	103	166
5/10/2011 05:45 PM	52	75	127
5/10/2011 06:00 PM	50	68	118
5/10/2011 06:15 PM	52	45	97
5/10/2011 06:30 PM	51	56	107
5/10/2011 06:45 PM	58	40	98
5/10/2011 07:00 PM	30	45	75
5/10/2011 07:15 PM	36	41	77
5/10/2011 07:30 PM	31	32	63
5/10/2011 07:45 PM	22	31	53
5/10/2011 08:00 PM	17	26	43
5/10/2011 08:15 PM	26	40	66
5/10/2011 08:30 PM	11	43	54
5/10/2011 08:45 PM	23	29	52
5/10/2011 09:00 PM	23	27	50
5/10/2011 09:15 PM	19	29	48
5/10/2011 09:30 PM	13	26	39
5/10/2011 09:45 PM	16	19	35
5/10/2011 10:00 PM	9	13	22
5/10/2011 10:15 PM	15	21	36
5/10/2011 10:30 PM	6	14	20
5/10/2011 10:45 PM	9	3	12
5/10/2011 11:00 PM	6	9	15
5/10/2011 11:15 PM	2	13	15
5/10/2011 11:30 PM	2	2	4
5/10/2011 11:45 PM	3	9	12
	3729	3608	7337

02 - LUCAS RD WEST OF COUNTRY CLUB RD

Start Date: 5/10/2011

Start Time: 12:00:00 AM

Date	Time	EB	WB	TOTAL
5/10/2011	12:00 AM	13	4	17
5/10/2011	12:15 AM	10	2	12
5/10/2011	12:30 AM	2	2	4
5/10/2011	12:45 AM	3	0	3
5/10/2011	01:00 AM	3	0	3
5/10/2011	01:15 AM	3	2	5
5/10/2011	01:30 AM	2	4	6
5/10/2011	01:45 AM	5	8	13
5/10/2011	02:00 AM	3	2	5
5/10/2011	02:15 AM	2	2	4
5/10/2011	02:30 AM	2	2	4
5/10/2011	02:45 AM	2	2	4
5/10/2011	03:00 AM	0	4	4
5/10/2011	03:15 AM	2	6	8
5/10/2011	03:30 AM	1	2	3
5/10/2011	03:45 AM	2	2	4
5/10/2011	04:00 AM	0	2	2
5/10/2011	04:15 AM	0	6	6
5/10/2011	04:30 AM	2	10	12
5/10/2011	04:45 AM	4	10	14
5/10/2011	05:00 AM	5	24	29
5/10/2011	05:15 AM	4	26	30
5/10/2011	05:30 AM	8	28	36
5/10/2011	05:45 AM	18	54	72
5/10/2011	06:00 AM	12	42	54
5/10/2011	06:15 AM	18	60	78
5/10/2011	06:30 AM	22	96	118
5/10/2011	06:45 AM	33	106	139
5/10/2011	07:00 AM	37	124	161
5/10/2011	07:15 AM	33	126	159
5/10/2011	07:30 AM	63	124	187
5/10/2011	07:45 AM	107	184	291
5/10/2011	08:00 AM	66	166	232
5/10/2011	08:15 AM	43	116	159
5/10/2011	08:30 AM	50	102	152
5/10/2011	08:45 AM	67	96	163
5/10/2011	09:00 AM	42	96	138
5/10/2011	09:15 AM	27	78	105
5/10/2011	09:30 AM	50	84	134
5/10/2011	09:45 AM	42	70	112
5/10/2011	10:00 AM	35	62	97
5/10/2011	10:15 AM	43	40	83
5/10/2011	10:30 AM	35	40	75
5/10/2011	10:45 AM	46	48	94
5/10/2011	11:00 AM	53	52	105
5/10/2011	11:15 AM	57	58	115
5/10/2011	11:30 AM	38	68	106
5/10/2011	11:45 AM	57	64	121

5/10/2011 12:00 PM	44	60	104
5/10/2011 12:15 PM	57	52	109
5/10/2011 12:30 PM	56	62	118
5/10/2011 12:45 PM	58	50	108
5/10/2011 01:00 PM	50	44	94
5/10/2011 01:15 PM	65	30	95
5/10/2011 01:30 PM	54	50	104
5/10/2011 01:45 PM	58	56	114
5/10/2011 02:00 PM	67	56	123
5/10/2011 02:15 PM	80	50	130
5/10/2011 02:30 PM	72	66	138
5/10/2011 02:45 PM	81	50	131
5/10/2011 03:00 PM	78	84	162
5/10/2011 03:15 PM	86	96	182
5/10/2011 03:30 PM	120	90	210
5/10/2011 03:45 PM	79	72	151
5/10/2011 04:00 PM	71	76	147
5/10/2011 04:15 PM	86	62	148
5/10/2011 04:30 PM	92	60	152
5/10/2011 04:45 PM	94	80	174
5/10/2011 05:00 PM	97	82	179
5/10/2011 05:15 PM	120	64	184
5/10/2011 05:30 PM	105	104	209
5/10/2011 05:45 PM	104	92	196
5/10/2011 06:00 PM	106	68	174
5/10/2011 06:15 PM	106	62	168
5/10/2011 06:30 PM	72	78	150
5/10/2011 06:45 PM	100	72	172
5/10/2011 07:00 PM	85	56	141
5/10/2011 07:15 PM	68	52	120
5/10/2011 07:30 PM	65	34	99
5/10/2011 07:45 PM	63	32	95
5/10/2011 08:00 PM	42	28	70
5/10/2011 08:15 PM	51	26	77
5/10/2011 08:30 PM	50	20	70
5/10/2011 08:45 PM	38	16	54
5/10/2011 09:00 PM	42	16	58
5/10/2011 09:15 PM	45	20	65
5/10/2011 09:30 PM	31	12	43
5/10/2011 09:45 PM	32	10	42
5/10/2011 10:00 PM	20	14	34
5/10/2011 10:15 PM	29	8	37
5/10/2011 10:30 PM	22	10	32
5/10/2011 10:45 PM	13	6	19
5/10/2011 11:00 PM	16	6	22
5/10/2011 11:15 PM	17	4	21
5/10/2011 11:30 PM	12	8	20
5/10/2011 11:45 PM	10	10	20
	4181	4562	8743

03 - LUCAS RD MIDWAY BETWEEN COUNTRY CLUB RD & SOUTHVIEW DR

Start Date: 5/10/2011

Start Time: 12:00:00 AM

Date	Time	EB	WB	TOTAL
5/10/2011	12:00 AM	18	4	22
5/10/2011	12:15 AM	16	5	21
5/10/2011	12:30 AM	6	3	9
5/10/2011	12:45 AM	7	4	11
5/10/2011	01:00 AM	7	4	11
5/10/2011	01:15 AM	3	7	10
5/10/2011	01:30 AM	5	2	7
5/10/2011	01:45 AM	5	5	10
5/10/2011	02:00 AM	3	3	6
5/10/2011	02:15 AM	5	0	5
5/10/2011	02:30 AM	2	4	6
5/10/2011	02:45 AM	1	3	4
5/10/2011	03:00 AM	2	2	4
5/10/2011	03:15 AM	1	6	7
5/10/2011	03:30 AM	2	4	6
5/10/2011	03:45 AM	1	6	7
5/10/2011	04:00 AM	3	3	6
5/10/2011	04:15 AM	0	12	12
5/10/2011	04:30 AM	4	19	23
5/10/2011	04:45 AM	6	25	31
5/10/2011	05:00 AM	3	28	31
5/10/2011	05:15 AM	8	34	42
5/10/2011	05:30 AM	14	50	64
5/10/2011	05:45 AM	25	80	105
5/10/2011	06:00 AM	20	74	94
5/10/2011	06:15 AM	41	111	152
5/10/2011	06:30 AM	43	149	192
5/10/2011	06:45 AM	50	199	249
5/10/2011	07:00 AM	61	197	258
5/10/2011	07:15 AM	50	220	270
5/10/2011	07:30 AM	82	226	308
5/10/2011	07:45 AM	130	231	361
5/10/2011	08:00 AM	101	178	279
5/10/2011	08:15 AM	59	161	220
5/10/2011	08:30 AM	77	149	226
5/10/2011	08:45 AM	72	158	230
5/10/2011	09:00 AM	65	138	203
5/10/2011	09:15 AM	50	96	146
5/10/2011	09:30 AM	51	107	158
5/10/2011	09:45 AM	49	111	160
5/10/2011	10:00 AM	59	90	149
5/10/2011	10:15 AM	56	76	132
5/10/2011	10:30 AM	43	77	120
5/10/2011	10:45 AM	65	80	145
5/10/2011	11:00 AM	66	61	127
5/10/2011	11:15 AM	71	70	141
5/10/2011	11:30 AM	56	77	133
5/10/2011	11:45 AM	78	79	157

5/10/2011 12:00 PM	65	65	130
5/10/2011 12:15 PM	55	86	141
5/10/2011 12:30 PM	73	75	148
5/10/2011 12:45 PM	70	76	146
5/10/2011 01:00 PM	69	60	129
5/10/2011 01:15 PM	79	71	150
5/10/2011 01:30 PM	95	75	170
5/10/2011 01:45 PM	81	84	165
5/10/2011 02:00 PM	100	70	170
5/10/2011 02:15 PM	108	67	175
5/10/2011 02:30 PM	121	69	190
5/10/2011 02:45 PM	114	67	181
5/10/2011 03:00 PM	110	88	198
5/10/2011 03:15 PM	144	83	227
5/10/2011 03:30 PM	180	59	239
5/10/2011 03:45 PM	138	68	206
5/10/2011 04:00 PM	133	76	209
5/10/2011 04:15 PM	171	77	248
5/10/2011 04:30 PM	144	68	212
5/10/2011 04:45 PM	142	92	234
5/10/2011 05:00 PM	159	83	242
5/10/2011 05:15 PM	183	82	265
5/10/2011 05:30 PM	185	91	276
5/10/2011 05:45 PM	162	78	240
5/10/2011 06:00 PM	165	73	238
5/10/2011 06:15 PM	153	79	232
5/10/2011 06:30 PM	151	67	218
5/10/2011 06:45 PM	118	78	196
5/10/2011 07:00 PM	117	55	172
5/10/2011 07:15 PM	106	54	160
5/10/2011 07:30 PM	98	53	151
5/10/2011 07:45 PM	84	34	118
5/10/2011 08:00 PM	70	35	105
5/10/2011 08:15 PM	106	32	138
5/10/2011 08:30 PM	95	17	112
5/10/2011 08:45 PM	75	33	108
5/10/2011 09:00 PM	73	32	105
5/10/2011 09:15 PM	58	35	93
5/10/2011 09:30 PM	63	17	80
5/10/2011 09:45 PM	63	24	87
5/10/2011 10:00 PM	46	15	61
5/10/2011 10:15 PM	42	13	55
5/10/2011 10:30 PM	32	15	47
5/10/2011 10:45 PM	30	11	41
5/10/2011 11:00 PM	14	17	31
5/10/2011 11:15 PM	19	6	25
5/10/2011 11:30 PM	14	8	22
5/10/2011 11:45 PM	13	8	21
	6328	6049	12377

04 - SOUTHVIEW DR SOUTH OF LUCAS RD

Start Date: 5/10/2011

Start Time: 12:00:00 AM

Date	Time	NB	SB	TOTAL
5/10/2011	12:00 AM	2	10	12
5/10/2011	12:15 AM	5	4	9
5/10/2011	12:30 AM	3	4	7
5/10/2011	12:45 AM	1	5	6
5/10/2011	01:00 AM	2	3	5
5/10/2011	01:15 AM	6	2	8
5/10/2011	01:30 AM	1	1	2
5/10/2011	01:45 AM	1	0	1
5/10/2011	02:00 AM	1	2	3
5/10/2011	02:15 AM	0	2	2
5/10/2011	02:30 AM	4	5	9
5/10/2011	02:45 AM	1	0	1
5/10/2011	03:00 AM	2	2	4
5/10/2011	03:15 AM	3	0	3
5/10/2011	03:30 AM	1	1	2
5/10/2011	03:45 AM	4	1	5
5/10/2011	04:00 AM	1	5	6
5/10/2011	04:15 AM	6	3	9
5/10/2011	04:30 AM	5	7	12
5/10/2011	04:45 AM	13	7	20
5/10/2011	05:00 AM	12	9	21
5/10/2011	05:15 AM	5	16	21
5/10/2011	05:30 AM	23	20	43
5/10/2011	05:45 AM	30	39	69
5/10/2011	06:00 AM	29	49	78
5/10/2011	06:15 AM	49	67	116
5/10/2011	06:30 AM	85	79	164
5/10/2011	06:45 AM	107	76	183
5/10/2011	07:00 AM	98	90	188
5/10/2011	07:15 AM	127	95	222
5/10/2011	07:30 AM	149	99	248
5/10/2011	07:45 AM	158	100	258
5/10/2011	08:00 AM	115	104	219
5/10/2011	08:15 AM	109	65	174
5/10/2011	08:30 AM	103	69	172
5/10/2011	08:45 AM	98	72	170
5/10/2011	09:00 AM	95	57	152
5/10/2011	09:15 AM	61	51	112
5/10/2011	09:30 AM	70	46	116
5/10/2011	09:45 AM	76	50	126
5/10/2011	10:00 AM	74	45	119
5/10/2011	10:15 AM	68	53	121
5/10/2011	10:30 AM	48	37	85
5/10/2011	10:45 AM	50	61	111
5/10/2011	11:00 AM	53	64	117
5/10/2011	11:15 AM	54	53	107
5/10/2011	11:30 AM	40	46	86
5/10/2011	11:45 AM	59	64	123

5/10/2011 12:00 PM	46	56	102
5/10/2011 12:15 PM	69	44	113
5/10/2011 12:30 PM	49	58	107
5/10/2011 12:45 PM	48	46	94
5/10/2011 01:00 PM	50	55	105
5/10/2011 01:15 PM	61	65	126
5/10/2011 01:30 PM	52	69	121
5/10/2011 01:45 PM	65	51	116
5/10/2011 02:00 PM	66	85	151
5/10/2011 02:15 PM	52	83	135
5/10/2011 02:30 PM	51	64	115
5/10/2011 02:45 PM	74	71	145
5/10/2011 03:00 PM	79	89	168
5/10/2011 03:15 PM	94	96	190
5/10/2011 03:30 PM	61	94	155
5/10/2011 03:45 PM	71	79	150
5/10/2011 04:00 PM	85	81	166
5/10/2011 04:15 PM	76	102	178
5/10/2011 04:30 PM	61	82	143
5/10/2011 04:45 PM	115	72	187
5/10/2011 05:00 PM	88	90	178
5/10/2011 05:15 PM	100	105	205
5/10/2011 05:30 PM	95	109	204
5/10/2011 05:45 PM	87	99	186
5/10/2011 06:00 PM	90	83	173
5/10/2011 06:15 PM	83	59	142
5/10/2011 06:30 PM	72	60	132
5/10/2011 06:45 PM	67	56	123
5/10/2011 07:00 PM	59	57	116
5/10/2011 07:15 PM	39	52	91
5/10/2011 07:30 PM	44	51	95
5/10/2011 07:45 PM	24	39	63
5/10/2011 08:00 PM	29	39	68
5/10/2011 08:15 PM	30	51	81
5/10/2011 08:30 PM	15	50	65
5/10/2011 08:45 PM	32	38	70
5/10/2011 09:00 PM	34	37	71
5/10/2011 09:15 PM	27	33	60
5/10/2011 09:30 PM	20	28	48
5/10/2011 09:45 PM	28	23	51
5/10/2011 10:00 PM	16	24	40
5/10/2011 10:15 PM	15	24	39
5/10/2011 10:30 PM	12	19	31
5/10/2011 10:45 PM	11	12	23
5/10/2011 11:00 PM	16	17	33
5/10/2011 11:15 PM	6	15	21
5/10/2011 11:30 PM	5	6	11
5/10/2011 11:45 PM	4	6	10
	4580	4464	9044

05 - LUCAS RD EAST OF SOUTHVIEW DR

Start Date: 5/10/2011

Start Time: 12:00:00 AM

Date	Time	EB	WB	TOTAL
5/10/2011	12:00 AM	13	3	16
5/10/2011	12:15 AM	10	0	10
5/10/2011	12:30 AM	1	3	4
5/10/2011	12:45 AM	4	2	6
5/10/2011	01:00 AM	5	1	6
5/10/2011	01:15 AM	3	3	6
5/10/2011	01:30 AM	1	2	3
5/10/2011	01:45 AM	5	3	8
5/10/2011	02:00 AM	1	3	4
5/10/2011	02:15 AM	5	3	8
5/10/2011	02:30 AM	2	4	6
5/10/2011	02:45 AM	2	1	3
5/10/2011	03:00 AM	0	1	1
5/10/2011	03:15 AM	2	2	4
5/10/2011	03:30 AM	2	3	5
5/10/2011	03:45 AM	3	4	7
5/10/2011	04:00 AM	0	8	8
5/10/2011	04:15 AM	1	12	13
5/10/2011	04:30 AM	1	17	18
5/10/2011	04:45 AM	6	18	24
5/10/2011	05:00 AM	1	25	26
5/10/2011	05:15 AM	3	40	43
5/10/2011	05:30 AM	12	54	66
5/10/2011	05:45 AM	15	67	82
5/10/2011	06:00 AM	11	76	87
5/10/2011	06:15 AM	24	119	143
5/10/2011	06:30 AM	25	123	148
5/10/2011	06:45 AM	32	122	154
5/10/2011	07:00 AM	31	152	183
5/10/2011	07:15 AM	28	166	194
5/10/2011	07:30 AM	24	140	164
5/10/2011	07:45 AM	37	135	172
5/10/2011	08:00 AM	54	99	153
5/10/2011	08:15 AM	28	86	114
5/10/2011	08:30 AM	49	80	129
5/10/2011	08:45 AM	26	69	95
5/10/2011	09:00 AM	35	77	112
5/10/2011	09:15 AM	26	58	84
5/10/2011	09:30 AM	23	47	70
5/10/2011	09:45 AM	22	49	71
5/10/2011	10:00 AM	33	39	72
5/10/2011	10:15 AM	26	34	60
5/10/2011	10:30 AM	28	44	72
5/10/2011	10:45 AM	29	44	73
5/10/2011	11:00 AM	23	31	54
5/10/2011	11:15 AM	36	33	69
5/10/2011	11:30 AM	32	41	73
5/10/2011	11:45 AM	33	43	76

5/10/2011 12:00 PM	40	43	83
5/10/2011 12:15 PM	45	32	77
5/10/2011 12:30 PM	37	37	74
5/10/2011 12:45 PM	47	39	86
5/10/2011 01:00 PM	44	56	100
5/10/2011 01:15 PM	38	39	77
5/10/2011 01:30 PM	47	46	93
5/10/2011 01:45 PM	37	36	73
5/10/2011 02:00 PM	45	32	77
5/10/2011 02:15 PM	47	34	81
5/10/2011 02:30 PM	48	60	108
5/10/2011 02:45 PM	42	39	81
5/10/2011 03:00 PM	52	40	92
5/10/2011 03:15 PM	69	30	99
5/10/2011 03:30 PM	75	38	113
5/10/2011 03:45 PM	95	44	139
5/10/2011 04:00 PM	111	47	158
5/10/2011 04:15 PM	110	46	156
5/10/2011 04:30 PM	102	49	151
5/10/2011 04:45 PM	115	53	168
5/10/2011 05:00 PM	108	56	164
5/10/2011 05:15 PM	157	41	198
5/10/2011 05:30 PM	143	57	200
5/10/2011 05:45 PM	133	40	173
5/10/2011 06:00 PM	108	49	157
5/10/2011 06:15 PM	116	53	169
5/10/2011 06:30 PM	100	36	136
5/10/2011 06:45 PM	76	40	116
5/10/2011 07:00 PM	88	36	124
5/10/2011 07:15 PM	65	31	96
5/10/2011 07:30 PM	53	39	92
5/10/2011 07:45 PM	63	23	86
5/10/2011 08:00 PM	54	22	76
5/10/2011 08:15 PM	58	46	104
5/10/2011 08:30 PM	54	33	87
5/10/2011 08:45 PM	34	20	54
5/10/2011 09:00 PM	40	22	62
5/10/2011 09:15 PM	43	33	76
5/10/2011 09:30 PM	37	27	64
5/10/2011 09:45 PM	51	14	65
5/10/2011 10:00 PM	23	17	40
5/10/2011 10:15 PM	22	15	37
5/10/2011 10:30 PM	15	9	24
5/10/2011 10:45 PM	23	6	29
5/10/2011 11:00 PM	6	13	19
5/10/2011 11:15 PM	12	8	20
5/10/2011 11:30 PM	9	10	19
5/10/2011 11:45 PM	8	8	16
	3758	3830	7588

METROCOUNT
9128 Couples Dr.-Plano TX-75025
Phone/Fax (972) 359-7882
NealHopeHig@aol.com

Lucas
Country Club Rd. & Lucas Rd.
5-10-111

File Name : C&P5101
Site Code : 00005101
Start Date : 5/10/2011
Page No : 1

Groups Printed- Unshifted

	Country Club Southbound				Lucas Westbound				Private Drive Northbound				Lucas Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
07:00 AM	26	0	33	59	75	110	0	185	0	0	0	0	0	25	4	29	273
07:15 AM	18	0	38	56	97	144	1	242	0	0	0	0	4	24	10	38	336
07:30 AM	25	0	50	75	132	118	0	250	0	0	0	0	0	28	19	47	372
07:45 AM	45	0	58	103	124	97	0	221	0	0	0	0	0	28	40	68	392
Total	114	0	179	293	428	469	1	898	0	0	0	0	4	105	73	182	1373
08:00 AM	29	0	49	78	88	101	0	189	0	0	0	0	0	38	10	48	315
08:15 AM	13	1	42	56	79	99	0	178	0	0	0	0	1	44	11	56	290
08:30 AM	17	0	40	57	72	81	1	154	2	0	0	2	0	40	13	53	266
08:45 AM	22	0	32	54	75	64	0	139	0	0	2	2	1	26	9	36	231
Total	81	1	163	245	314	345	1	660	2	0	2	4	2	148	43	193	1102
--- BREAK ---																	
02:00 PM	11	0	52	63	33	28	0	61	0	0	0	0	1	50	14	65	189
02:15 PM	11	0	38	49	29	35	0	64	0	0	1	1	0	46	16	62	176
02:30 PM	13	0	35	48	38	51	1	90	0	0	0	0	0	51	17	68	206
02:45 PM	9	0	33	42	30	41	0	71	1	0	0	1	0	49	15	64	178
Total	44	0	158	202	130	155	1	286	1	0	1	2	1	196	62	259	749
03:00 PM	18	0	49	67	46	40	1	87	1	0	1	2	0	66	18	84	240
03:15 PM	12	0	46	58	43	37	0	80	0	0	0	0	1	52	16	69	207
03:30 PM	12	0	57	69	36	36	1	73	0	0	1	1	0	71	18	89	232
03:45 PM	15	1	79	95	54	33	0	87	1	0	2	3	3	75	12	90	275
Total	57	1	231	289	179	146	2	327	2	0	4	6	4	264	64	332	954
04:00 PM	21	0	68	89	36	45	1	82	0	0	5	5	2	99	13	114	290
04:15 PM	16	0	84	100	46	60	0	106	1	0	2	3	1	84	10	95	304
04:30 PM	14	0	63	77	60	58	0	118	0	0	1	1	1	85	16	102	298
04:45 PM	13	0	85	98	61	35	0	96	0	0	0	0	1	88	12	101	295
Total	64	0	300	364	203	198	1	402	1	0	8	9	5	355	51	412	1187
Grand Total	360	2	1031	1393	1254	1313	6	2573	6	0	15	21	16	1069	293	1378	5365
Apprch %	25.8	0.1	74		48.7	51	0.2		28.6	0	71.4		1.2	77.6	21.3		
Total %	6.7	0	19.2	26	23.4	24.5	0.1	48	0.1	0	0.3	0.4	0.3	19.9	5.5	25.7	

	Country Club Southbound				Lucas Westbound				Private Drive Northbound				Lucas Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 11:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	18	0	38	56	97	144	1	242	0	0	0	0	4	24	10	38	336
07:30 AM	25	0	50	75	132	118	0	250	0	0	0	0	0	28	19	47	372
07:45 AM	45	0	58	103	124	97	0	221	0	0	0	0	0	28	40	68	392
08:00 AM	29	0	49	78	88	101	0	189	0	0	0	0	0	38	10	48	315
Total Volume	117	0	195	312	441	460	1	902	0	0	0	0	4	118	79	201	1415
% App. Total	37.5	0	62.5		48.9	51	0.1		0	0	0		2	58.7	39.3		
PHF	.650	.000	.841	.757	.835	.799	.250	.902	.000	.000	.000	.000	.250	.776	.494	.739	.902

METROCOUNT

9128 Couples Dr.-Plano TX-75025

Phone/Fax (972) 359-7882

NealHopeHig@aol.com

Lucas

Country Club Rd. & Lucas Rd.

5-10-111

File Name : C&P5101

Site Code : 00005101

Start Date : 5/10/2011

Page No : 2

	Country Club Southbound				Lucas Westbound				Private Drive Northbound				Lucas Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 11:45 AM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	07:15 AM				07:15 AM				08:00 AM				07:45 AM				
+0 mins.	18	0	38	56	97	144	1	242	0	0	0	0	0	28	40	68	
+15 mins.	25	0	50	75	132	118	0	250	0	0	0	0	0	38	10	48	
+30 mins.	46	0	88	103	124	97	0	221	2	0	0	2	1	44	11	56	
+45 mins.	29	0	49	78	88	101	0	189	0	0	2	2	0	40	13	53	
Total Volume	117	0	195	312	441	460	1	902	2	0	2	4	1	150	74	225	
% App. Total	37.5	0	62.5		48.9	51	0.1		50	0	50		0.4	66.7	32.9		
PHF	.650	.000	.841	.757	.835	.799	.250	.902	.250	.000	.250	.500	.250	.852	.463	.627	
Peak Hour Analysis From 12:00 PM to 04:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:00 PM																	
04:00 PM	21	0	68	89	36	45	1	82	0	0	5	5	2	99	13	114	290
04:15 PM	16	0	84	100	46	60	0	106	1	0	2	3	1	84	10	95	304
04:30 PM	14	0	63	77	60	58	0	118	0	0	1	1	1	85	16	102	298
04:45 PM	13	0	85	98	61	35	0	96	0	0	0	0	1	88	12	101	295
Total Volume	64	0	300	364	203	198	1	402	1	0	8	9	5	356	51	412	1187
% App. Total	17.6	0	82.4		50.5	49.3	0.2		11.1	0	88.9		1.2	86.4	12.4		
PHF	.762	.000	.882	.910	.832	.825	.250	.852	.250	.000	.400	.450	.625	.899	.797	.904	.976
Peak Hour Analysis From 12:00 PM to 04:45 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	04:00 PM				04:00 PM				03:30 PM				04:00 PM				
+0 mins.	21	0	68	89	36	45	1	82	0	0	1	1	2	99	13	114	
+15 mins.	16	0	84	100	46	60	0	106	1	0	2	3	1	84	10	95	
+30 mins.	14	0	63	77	60	58	0	118	0	0	6	6	1	85	16	102	
+45 mins.	13	0	85	98	61	35	0	96	1	0	2	3	1	88	12	101	
Total Volume	64	0	300	364	203	198	1	402	2	0	10	12	5	356	51	412	
% App. Total	17.6	0	82.4		50.5	49.3	0.2		16.7	0	83.3		1.2	86.4	12.4		
PHF	.762	.000	.882	.910	.832	.825	.250	.852	.800	.000	.500	.600	.625	.899	.797	.904	

METROCOUNT

9128 Couples Dr.-Plano TX-75025

Phone/Fax (972) 359-7882

NealHopeHig@aol.com

Lucas
Lucas Rd. & Southview Dr.
5-10-11

File Name : C&P5103
Site Code : 00005103
Start Date : 5/10/2011
Page No : 1

Groups Printed- Unshifted

Start Time	Lucas Southbound				Lucas Westbound				Southview Northbound				NA Eastbound				
	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
07:00 AM	0	32	21	53	90	0	53	143	12	93	0	105	0	0	0	0	301
07:15 AM	0	44	19	63	106	0	58	164	7	133	0	140	0	0	0	0	367
07:30 AM	0	46	11	57	95	0	56	151	9	142	0	151	0	0	0	0	359
07:45 AM	0	57	27	84	77	0	39	116	5	127	0	132	0	0	0	0	332
Total	0	179	78	257	368	0	206	574	33	495	0	528	0	0	0	0	1359
08:00 AM	0	46	29	77	83	0	32	115	8	99	0	107	0	0	0	0	299
08:15 AM	0	40	23	63	66	0	24	90	13	98	0	111	0	0	0	0	264
08:30 AM	0	42	33	75	57	0	19	76	14	85	0	99	0	0	0	0	250
08:45 AM	0	36	20	56	49	0	22	71	14	84	0	98	0	0	0	0	225
Total	0	166	105	271	255	0	97	352	49	366	0	415	0	0	0	0	1038
*** BREAK ***																	
02:00 PM	0	59	30	89	18	0	14	32	9	31	0	40	0	0	0	0	161
02:15 PM	0	45	35	80	23	0	12	35	15	31	0	46	0	0	0	0	161
02:30 PM	0	48	34	82	39	0	16	55	13	40	0	53	0	0	0	0	190
02:45 PM	0	42	29	71	27	0	11	38	14	44	0	58	0	0	0	0	167
Total	0	194	128	322	107	0	53	160	51	146	0	197	0	0	0	0	679
03:00 PM	0	54	34	88	28	0	13	41	19	39	0	58	0	0	0	0	187
03:15 PM	0	69	54	123	28	0	8	36	23	49	0	72	0	0	0	0	231
03:30 PM	0	64	56	120	25	0	12	37	20	43	0	63	0	0	0	0	220
03:45 PM	0	64	60	124	28	0	19	47	32	57	0	89	0	0	0	0	260
Total	0	251	204	455	109	0	52	161	94	188	0	282	0	0	0	0	898
04:00 PM	0	85	73	158	33	0	15	48	36	42	0	78	0	0	0	0	284
04:15 PM	0	81	66	147	38	0	12	50	45	55	0	100	0	0	0	0	297
04:30 PM	0	70	68	138	33	0	14	47	38	68	0	106	0	0	0	0	291
04:45 PM	0	84	78	162	32	0	20	52	38	60	0	98	0	0	0	0	312
Total	0	320	285	605	136	0	61	197	157	225	0	382	0	0	0	0	1184
Grand Total	0	1110	800	1910	975	0	469	1444	384	1420	0	1804	0	0	0	0	5158
Apprch %	0	58.1	41.9		67.5	0	32.5		21.3	78.7	0		0	0	0		
Total %	0	21.5	15.5	37	18.9	0	9.1	28	7.4	27.5	0	35	0	0	0	0	

Start Time	Lucas Southbound				Lucas Westbound				Southview Northbound				NA Eastbound				
	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 11:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:00 AM																	
07:00 AM	0	32	21	53	90	0	53	143	12	93	0	105	0	0	0	0	301
07:15 AM	0	44	19	63	106	0	58	164	7	133	0	140	0	0	0	0	367
07:30 AM	0	46	11	57	95	0	56	151	9	142	0	151	0	0	0	0	359
07:45 AM	0	57	27	84	77	0	39	116	5	127	0	132	0	0	0	0	332
Total Volume	0	179	78	257	368	0	206	574	33	495	0	528	0	0	0	0	1359
% App. Total	0	69.6	30.4		64.1	0	35.9		6.2	93.8	0		0	0	0		
PHF	.000	.785	.722	.765	.868	.000	.888	.875	.688	.871	.000	.874	.000	.000	.000	.000	.926

METROCOUNT
 9128 Couples Dr.-Plano TX-75025
 Phone/Fax (972) 359-7882
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Lucas
 Lucas Rd. & Southview Dr.
 5-10-11

File Name : C&P5103
 Site Code : 00005103
 Start Date : 5/10/2011
 Page No : 2

Lucas Southbound					Lucas Westbound				Southview Northbound				NA Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 11:45 AM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	07:45 AM				07:00 AM				07:15 AM				07:00 AM				
+0 mins.	0	57	27	84	90	0	53	143	7	133	0	140	0	0	0	0	
+15 mins.	0	48	29	77	106	0	58	164	9	142	0	151	0	0	0	0	
+30 mins.	0	40	23	63	95	0	56	151	5	127	0	132	0	0	0	0	
+45 mins.	0	42	33	75	77	0	39	116	8	99	0	107	0	0	0	0	
Total Volume	0	187	112	299	368	0	206	574	29	501	0	530	0	0	0	0	
% App. Total	0	62.5	37.5		64.1	0	35.9		5.5	94.5	0		0	0	0		
PHF	.000	.820	.848	.890	.868	.000	.888	.875	.806	.882	.000	.877	.000	.000	.000	.000	
Peak Hour Analysis From 12:00 PM to 04:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:00 PM																	
04:00 PM	0	86	73	158	33	0	15	48	36	42	0	78	0	0	0	0	284
04:15 PM	0	81	66	147	38	0	12	50	45	55	0	100	0	0	0	0	297
04:30 PM	0	70	68	138	33	0	14	47	38	68	0	106	0	0	0	0	291
04:45 PM	0	84	78	162	32	0	20	52	38	60	0	98	0	0	0	0	312
Total Volume	0	320	285	605	136	0	61	197	157	225	0	382	0	0	0	0	1184
% App. Total	0	52.9	47.1		69	0	31		41.1	58.9	0		0	0	0		
PHF	.000	.941	.913	.934	.895	.000	.763	.947	.872	.827	.000	.901	.000	.000	.000	.000	.949
Peak Hour Analysis From 12:00 PM to 04:45 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	04:00 PM				04:00 PM				04:00 PM				12:00 PM				
+0 mins.	0	86	73	158	33	0	15	48	36	42	0	78	0	0	0	0	
+15 mins.	0	81	66	147	38	0	12	50	45	55	0	100	0	0	0	0	
+30 mins.	0	70	68	138	33	0	14	47	38	68	0	106	0	0	0	0	
+45 mins.	0	84	78	162	32	0	20	52	38	60	0	98	0	0	0	0	
Total Volume	0	320	285	605	136	0	61	197	157	225	0	382	0	0	0	0	
% App. Total	0	52.9	47.1		69	0	31		41.1	58.9	0		0	0	0		
PHF	.000	.941	.913	.934	.895	.000	.763	.947	.872	.827	.000	.901	.000	.000	.000	.000	

ITE TRIP GENERATION SHEETS

Middle School/Junior High School (522)

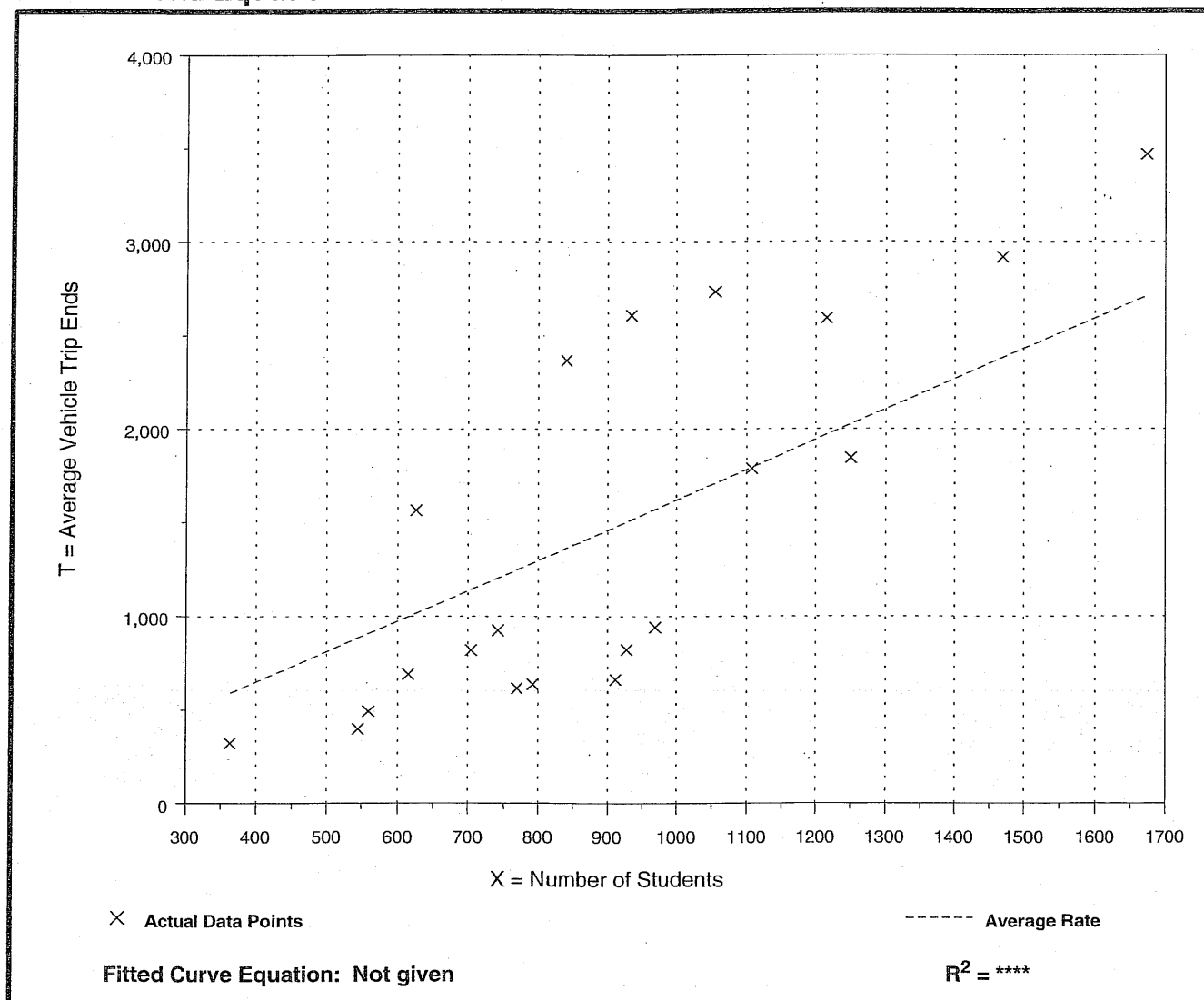
Average Vehicle Trip Ends vs: Students On a: Weekday

Number of Studies: 20
Average Number of Students: 904
Directional Distribution: 50% entering, 50% exiting

Trip Generation per Student

Average Rate	Range of Rates	Standard Deviation
1.62	0.72 - 2.81	1.45

Data Plot and Equation



Middle School/Junior High School (522)

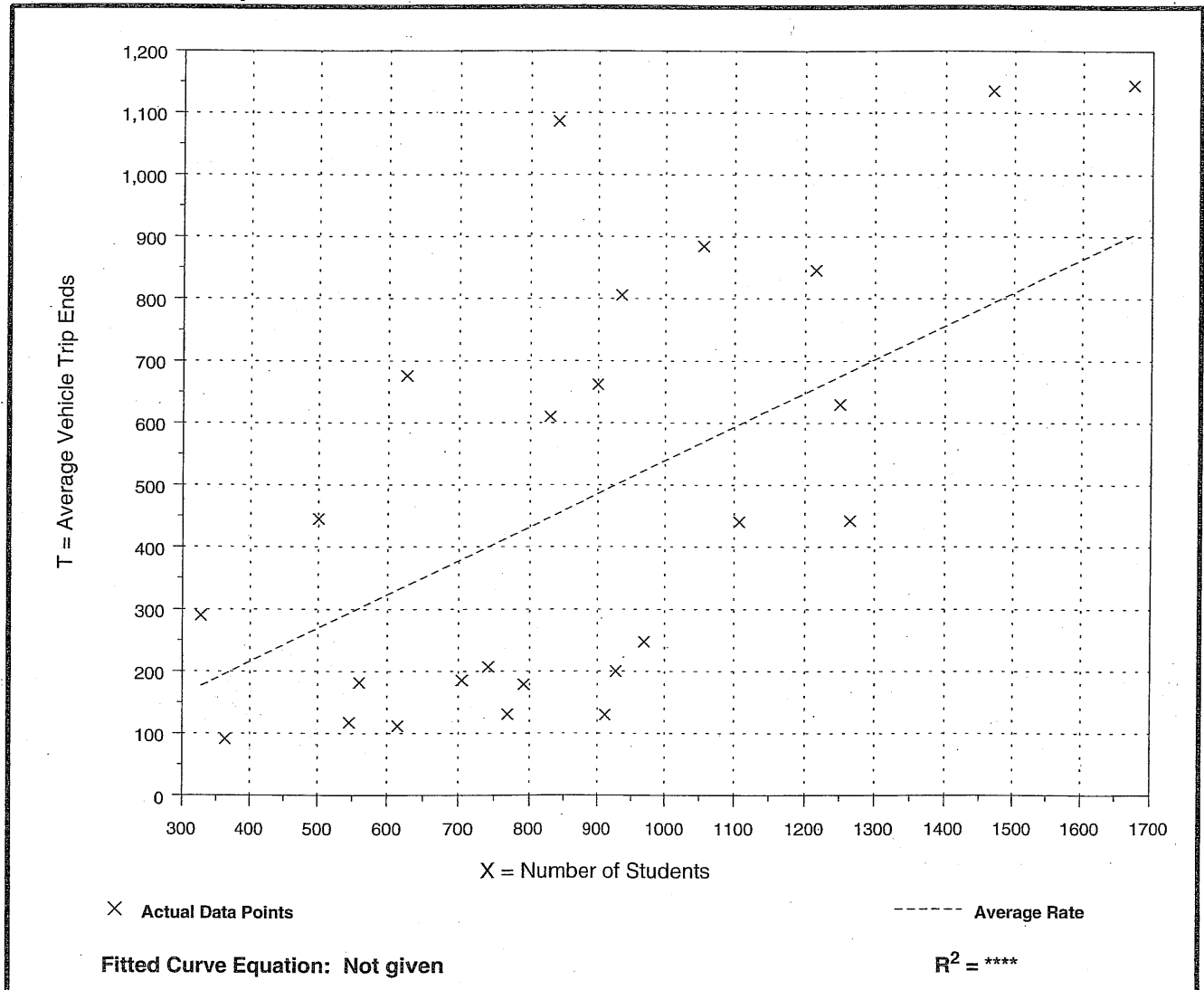
Average Vehicle Trip Ends vs: Students
On a: Weekday,
A.M. Peak Hour

Number of Studies: 25
 Average Number of Students: 876
 Directional Distribution: 55% entering, 45% exiting

Trip Generation per Student

Average Rate	Range of Rates	Standard Deviation
0.54	0.14 - 1.29	0.80

Data Plot and Equation



Middle School/Junior High School (522)

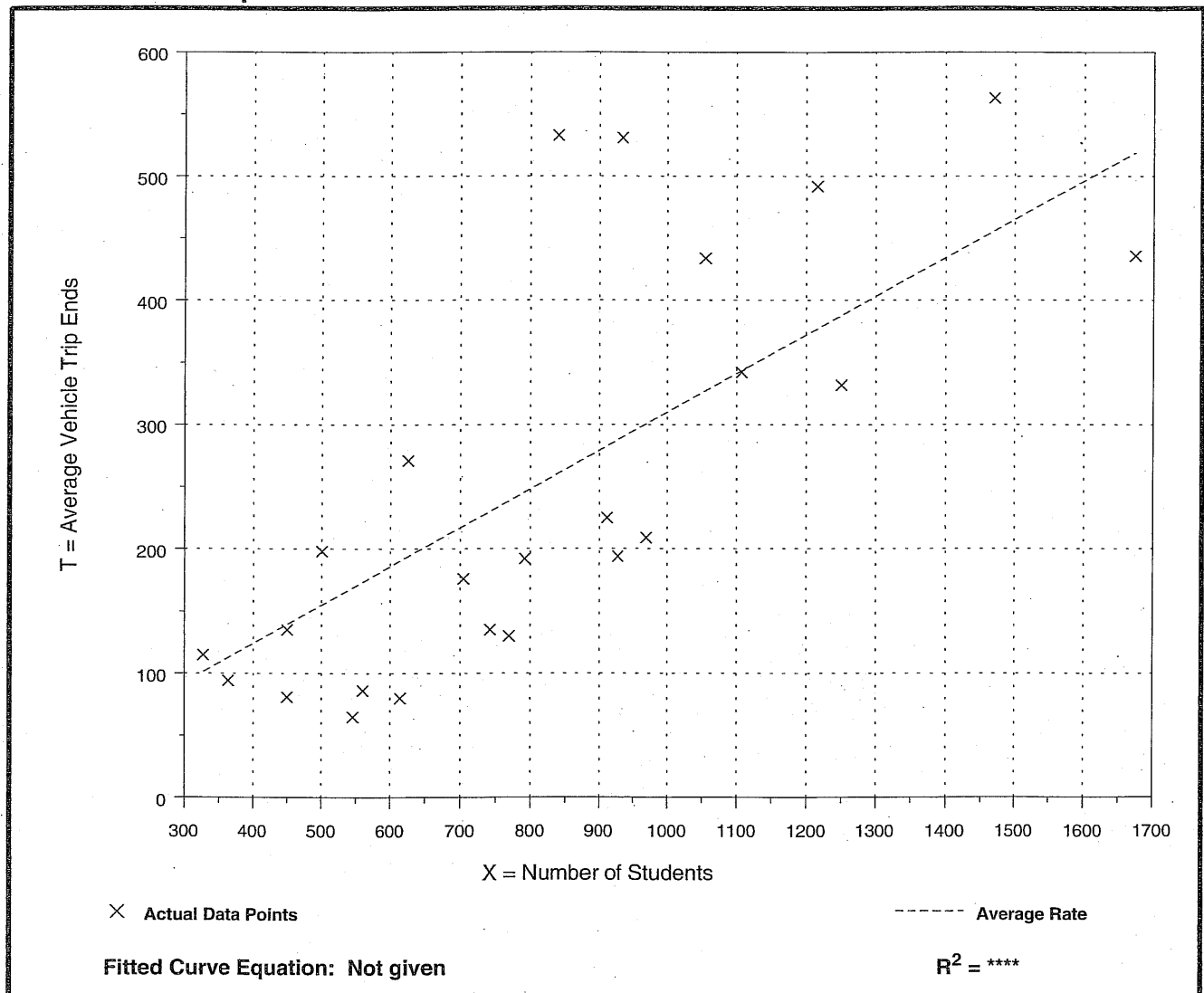
Average Vehicle Trip Ends vs: Students
On a: Weekday,
P.M. Peak Hour of Generator

Number of Studies: 24
 Average Number of Students: 825
 Directional Distribution: 45% entering, 55% exiting

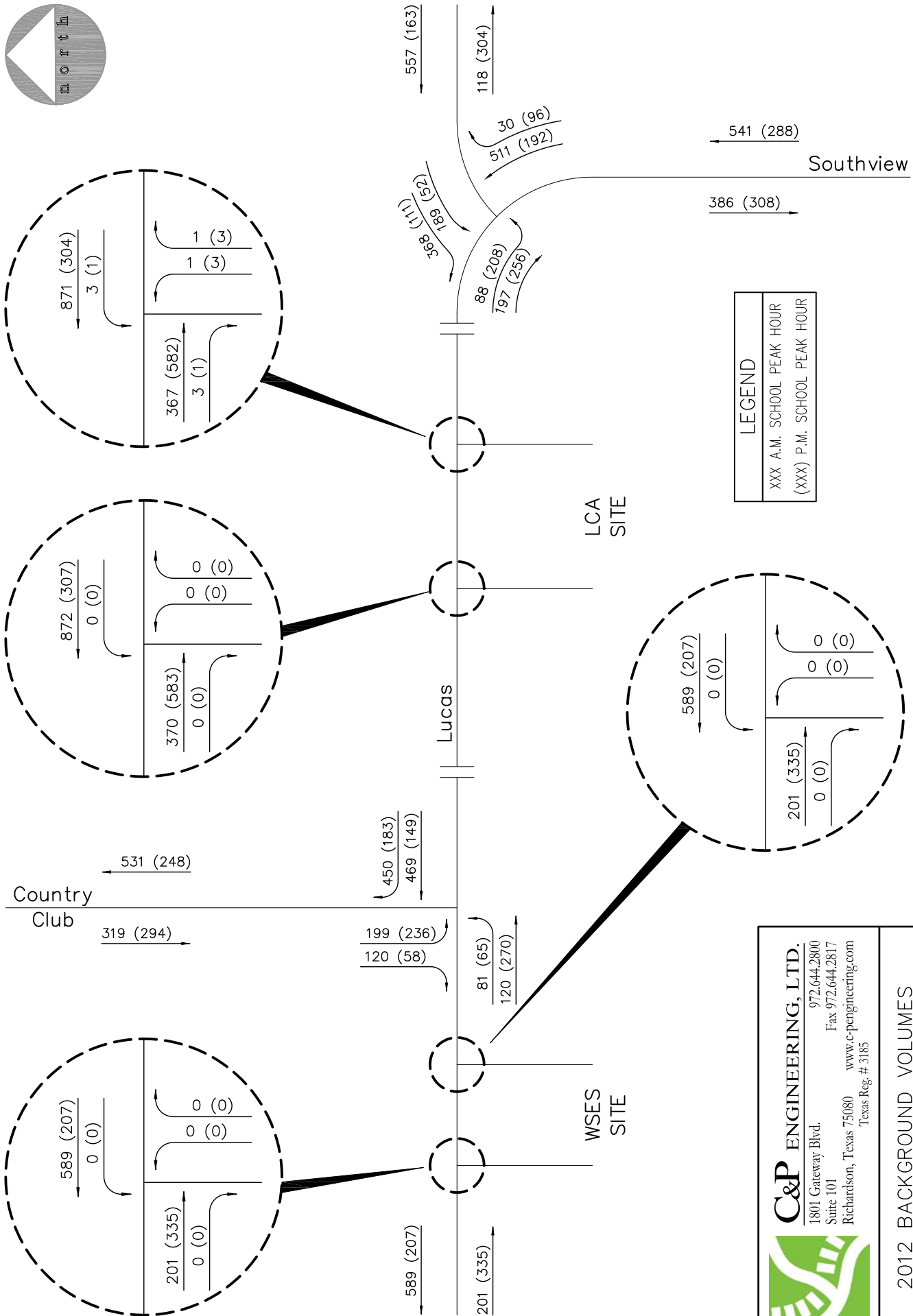
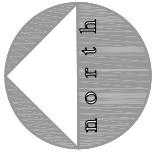
Trip Generation per Student

Average Rate	Range of Rates	Standard Deviation
0.31	0.12 - 0.63	0.57

Data Plot and Equation



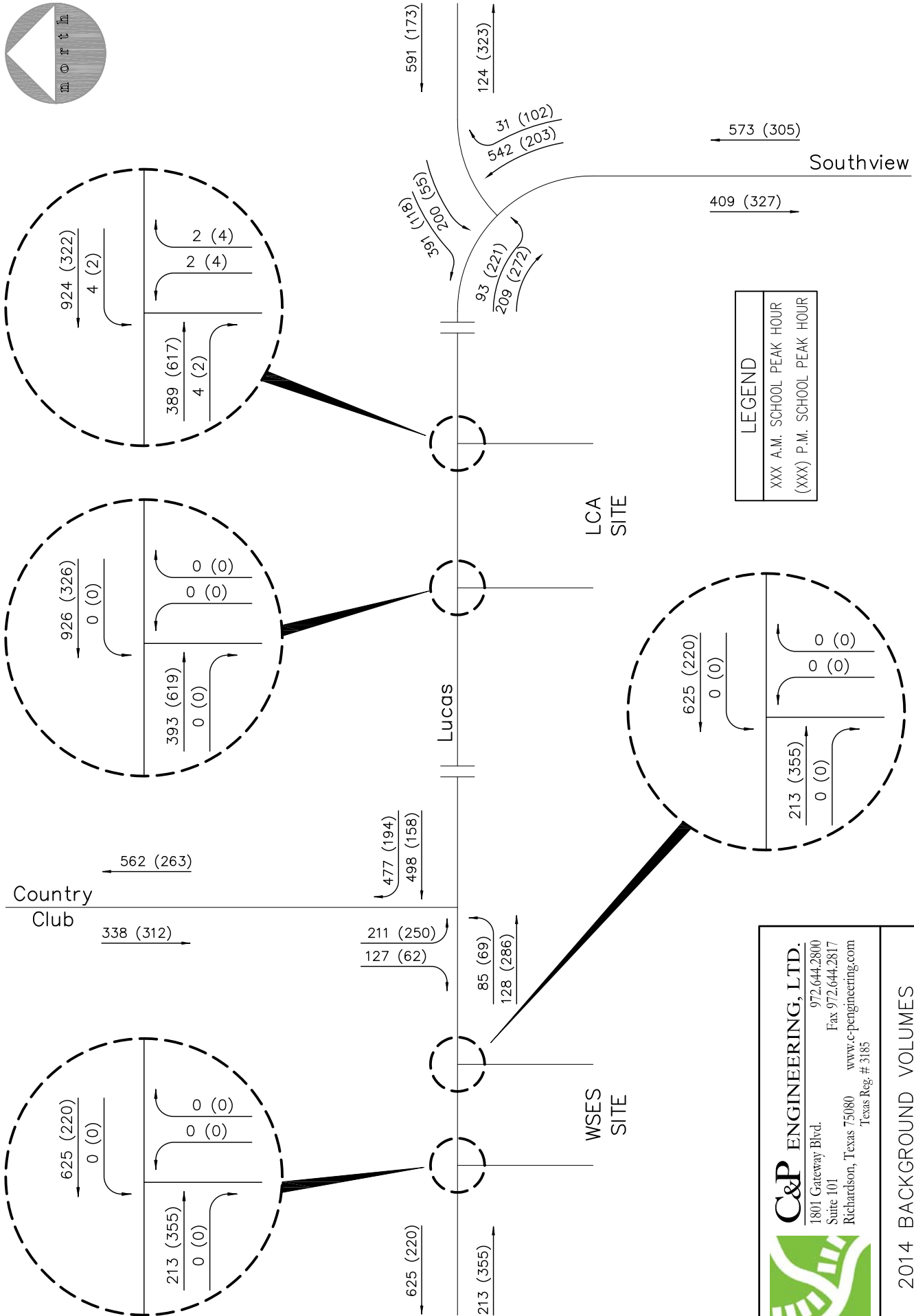
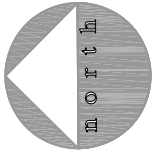
BACKGROUND TRAFFIC VOLUMES





C&P ENGINEERING, LTD.
1801 Gateway Blvd.
Suite 101
Richardson, Texas 75080
972.644.2800
Fax 972.644.2817
www.c-pengineering.com
Texas Reg. # 3185

2012 BACKGROUND VOLUMES	
Scale: N/A	Date: MAY 2011
Job No.: 11020	Dwg. File: FIGURE A1

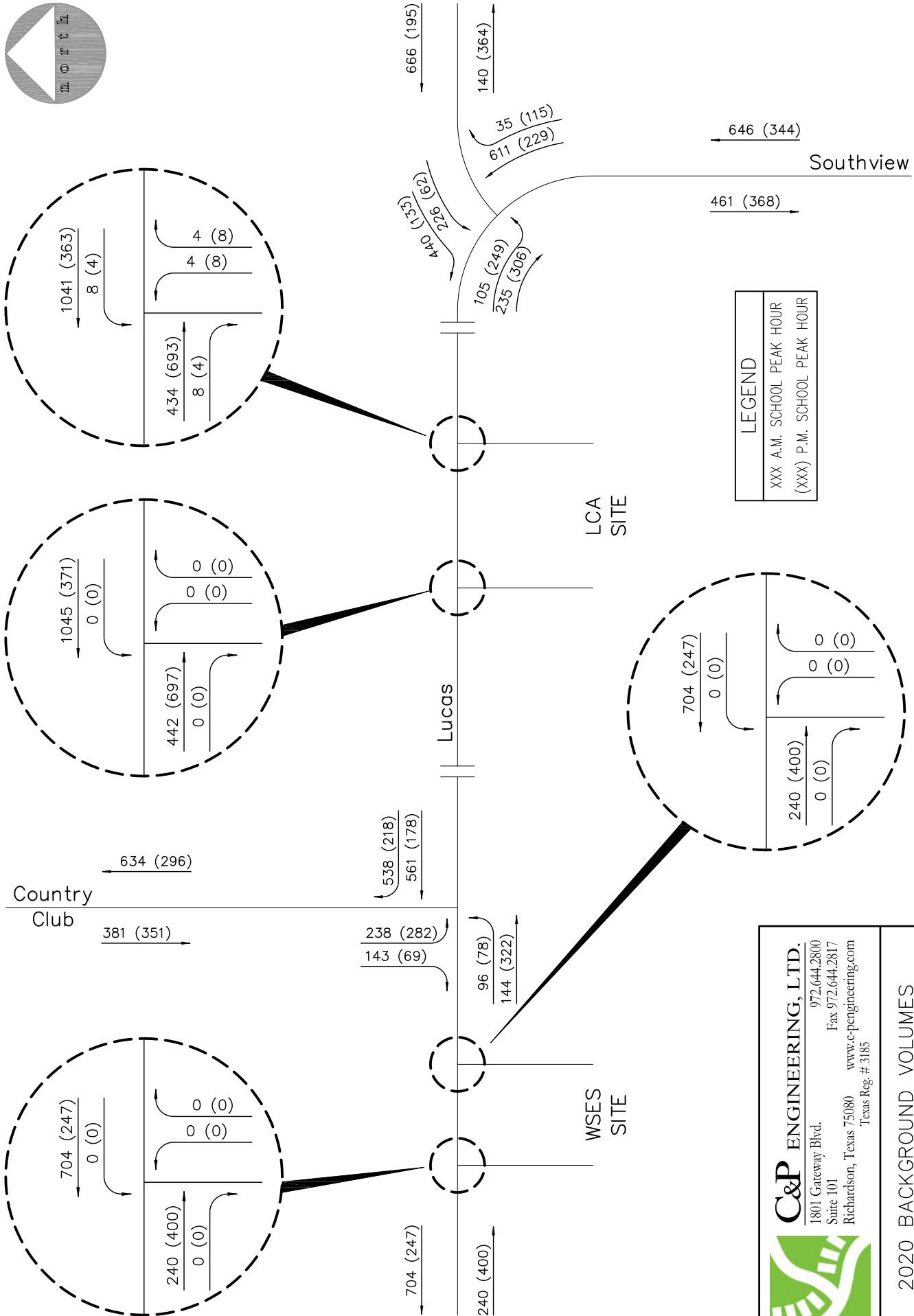
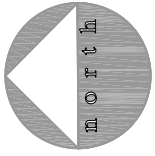




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Texas Reg. # 3185

2014 BACKGROUND VOLUMES

Scale:	N/A	Date:	MAY 2011
Job No.:	11020	Dwg. File:	FIGURE A2



 C&P ENGINEERING, LTD. 1801 Gateway Blvd. Suite 101 Richardson, Texas 75080 www.c-pengineering.com Texas Reg. # 3185	
972.644.2800 Fax 972.644.2817	
2020 BACKGROUND VOLUMES	
Scale: N/A	Date: MAY 2011
Job No.: 11020	Dwg. File: FIGURE A3

LEVEL OF SERVICE DESCRIPTION

**LEVEL OF SERVICE
DESCRIPTIONS**

LOS	DESCRIPTION
A and B	No delays at intersections with smooth progression of traffic. Uncongested operations; all vehicles clear in a single signal cycle.
C	Moderate delays at intersections with satisfactory to good progression of traffic. Light congestion; occasional back-ups on critical approaches.
D	40 percent probability of delays of one cycle or more at every intersection. No progression of traffic along the roadway with 90 percent probability of being stopped at every intersection experiencing "D" condition. Significant congestion on critical approaches, but intersection functional. Vehicles required to wait through more than one cycle during short peaks. No long standing lines formed.
E	Heavy traffic flow condition. Delays of two or more cycles probable. No progression. 100 percent probability of stopping at intersection. Limit of stable flow. Blockage of intersection may occur if traffic signal does not provide for protected turning movements.
F	Unstable traffic flow. Heavy congestion. Traffic moves in forced flow condition. Three or more cycles to pass through intersection. Total breakdown with stop-and-go operation.

HCM SHEETS

TWO-WAY STOP CONTROL SUMMARY

General Information			Site Information	
Analyst	DRC		Intersection	#4
Agency/Co.	C&P ENGINEERING		Jurisdiction	LUCAS
Date Performed	5/23/2011		Analysis Year	2012
Analysis Time Period	A.M. SCHOOL PEAK			

Project Description 2012 TOTAL VOLUMES

East/West Street: LUCAS	North/South Street: WSMS EAST DRIVE
Intersection Orientation: East-West	Study Period (hrs): 0.25

Vehicle Volumes and Adjustments

Major Street	Eastbound			Westbound		
Movement	1	2	3	4	5	6
	L	T	R	L	T	R
Volume (veh/h)		304	5	92	664	
Peak-Hour Factor, PHF	0.90	0.90	0.90	0.90	0.90	0.90
Hourly Flow Rate, HFR (veh/h)	0	337	5	102	737	0
Percent Heavy Vehicles	0	--	--	2	--	--
Median Type	Undivided					
RT Channelized			0			0
Lanes	0	1	0	0	1	0
Configuration			TR	LT		
Upstream Signal		0			0	

Minor Street	Northbound			Southbound		
Movement	7	8	9	10	11	12
	L	T	R	L	T	R
Volume (veh/h)	4		74			
Peak-Hour Factor, PHF	0.90	0.90	0.90	0.90	0.90	0.90
Hourly Flow Rate, HFR (veh/h)	4	0	82	0	0	0
Percent Heavy Vehicles	2	0	2	0	0	0
Percent Grade (%)	0			0		
Flared Approach		N			N	
Storage		0			0	
RT Channelized			0			0
Lanes	1	0	1	0	0	0
Configuration	L		R			

Delay, Queue Length, and Level of Service

Approach	Eastbound	Westbound	Northbound			Southbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration		LT	L		R			
v (veh/h)		102	4		82			
C (m) (veh/h)		1217	168		702			
v/c		0.08	0.02		0.12			
95% queue length		0.27	0.07		0.39			
Control Delay (s/veh)		8.2	27.0		10.8			
LOS		A	D		B			
Approach Delay (s/veh)	--	--	11.6					
Approach LOS	--	--	B					

TWO-WAY STOP CONTROL SUMMARY

General Information							Site Information		
Analyst	DRC			Intersection	#3				
Agency/Co.	C&P ENGINEERING			Jurisdiction	LUCAS				
Date Performed	5/23/2011			Analysis Year	2012				
Analysis Time Period	P.M. SCHOOL PEAK								
Project Description 2012 TOTAL VOLUMES									
East/West Street: LUCAS				North/South Street: WSMS WEST DRIVE					
Intersection Orientation: East-West				Study Period (hrs): 0.25					
Vehicle Volumes and Adjustments									
Major Street	Eastbound			Westbound					
Movement	1	2	3	4	5	6			
	L	T	R	L	T	R			
Volume (veh/h)		380	1	14	293				
Peak-Hour Factor, PHF	0.87	0.87	0.87	0.87	0.87	0.87			
Hourly Flow Rate, HFR (veh/h)	0	436	1	16	336	0			
Percent Heavy Vehicles	0	--	--	2	--	--			
Median Type	Undivided								
RT Channelized			0			0			
Lanes	0	1	0	0	1	0			
Configuration			TR	LT					
Upstream Signal		0			0				
Minor Street	Northbound			Southbound					
Movement	7	8	9	10	11	12			
	L	T	R	L	T	R			
Volume (veh/h)	1		17						
Peak-Hour Factor, PHF	0.87	0.87	0.87	0.87	0.87	0.87			
Hourly Flow Rate, HFR (veh/h)	1	0	19	0	0	0			
Percent Heavy Vehicles	2	0	2	0	0	0			
Percent Grade (%)	0			0					
Flared Approach		N			N				
Storage		0			0				
RT Channelized			0			0			
Lanes	1	0	1	0	0	0			
Configuration	L		R						
Delay, Queue Length, and Level of Service									
Approach	Eastbound	Westbound	Northbound			Southbound			
Movement	1	4	7	8	9	10	11	12	
Lane Configuration		LT	L		R				
v (veh/h)		16	1		19				
C (m) (veh/h)		1123	347		620				
v/c		0.01	0.00		0.03				
95% queue length		0.04	0.01		0.09				
Control Delay (s/veh)		8.3	15.4		11.0				
LOS		A	C		B				
Approach Delay (s/veh)	--	--	11.2						
Approach LOS	--	--	B						

TWO-WAY STOP CONTROL SUMMARY

General Information							Site Information		
Analyst	DRC			Intersection	#3				
Agency/Co.	C&P ENGINEERING			Jurisdiction	LUCAS				
Date Performed	5/23/2011			Analysis Year	2014				
Analysis Time Period	A.M. SCHOOL PEAK								
Project Description 2014 TOTAL VOLUMES									
East/West Street: LUCAS					North/South Street: WSMS WEST DRIVE				
Intersection Orientation: East-West					Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments									
Major Street	Eastbound			Westbound					
Movement	1	2	3	4	5	6			
	L	T	R	L	T	R			
Volume (veh/h)		327	2	34	694				
Peak-Hour Factor, PHF	0.90	0.90	0.90	0.90	0.90	0.90			
Hourly Flow Rate, HFR (veh/h)	0	363	2	37	771	0			
Percent Heavy Vehicles	0	--	--	2	--	--			
Median Type	Undivided								
RT Channelized			0			0			
Lanes	0	1	0	0	1	0			
Configuration			TR	LT					
Upstream Signal		0			0				
Minor Street	Northbound			Southbound					
Movement	7	8	9	10	11	12			
	L	T	R	L	T	R			
Volume (veh/h)	1		28						
Peak-Hour Factor, PHF	0.90	0.90	0.90	0.90	0.90	0.90			
Hourly Flow Rate, HFR (veh/h)	1	0	31	0	0	0			
Percent Heavy Vehicles	2	0	2	0	0	0			
Percent Grade (%)	0			0					
Flared Approach		N			N				
Storage		0			0				
RT Channelized			0			0			
Lanes	1	0	1	0	0	0			
Configuration	L		R						
Delay, Queue Length, and Level of Service									
Approach	Eastbound	Westbound	Northbound			Southbound			
Movement	1	4	7	8	9	10	11	12	
Lane Configuration		LT	L		R				
v (veh/h)		37	1		31				
C (m) (veh/h)		1194	196		681				
v/c		0.03	0.01		0.05				
95% queue length		0.10	0.02		0.14				
Control Delay (s/veh)		8.1	23.5		10.5				
LOS		A	C		B				
Approach Delay (s/veh)	--	--	10.9						
Approach LOS	--	--	B						

TWO-WAY STOP CONTROL SUMMARY

General Information							Site Information		
Analyst	DRC			Intersection	#3				
Agency/Co.	C&P ENGINEERING			Jurisdiction	LUCAS				
Date Performed	5/23/2011			Analysis Year	2014				
Analysis Time Period	P.M. SCHOOL PEAK								
Project Description 2014 TOTAL VOLUMES									
East/West Street: LUCAS					North/South Street: WSMS WEST DRIVE				
Intersection Orientation: East-West					Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments									
Major Street	Eastbound			Westbound					
Movement	1	2	3	4	5	6			
	L	T	R	L	T	R			
Volume (veh/h)		418	1	16	339				
Peak-Hour Factor, PHF	0.87	0.87	0.87	0.87	0.87	0.87			
Hourly Flow Rate, HFR (veh/h)	0	480	1	18	389	0			
Percent Heavy Vehicles	0	--	--	2	--	--			
Median Type	Undivided								
RT Channelized			0			0			
Lanes	0	1	0	0	1	0			
Configuration			TR	LT					
Upstream Signal		0			0				
Minor Street	Northbound			Southbound					
Movement	7	8	9	10	11	12			
	L	T	R	L	T	R			
Volume (veh/h)	1		19						
Peak-Hour Factor, PHF	0.87	0.87	0.87	0.87	0.87	0.87			
Hourly Flow Rate, HFR (veh/h)	1	0	21	0	0	0			
Percent Heavy Vehicles	2	0	2	0	0	0			
Percent Grade (%)	0			0					
Flared Approach		N			N				
Storage		0			0				
RT Channelized			0			0			
Lanes	1	0	1	0	0	0			
Configuration	L		R						
Delay, Queue Length, and Level of Service									
Approach	Eastbound	Westbound	Northbound			Southbound			
Movement	1	4	7	8	9	10	11	12	
Lane Configuration		LT	L		R				
v (veh/h)		18	1		21				
C (m) (veh/h)		1082	302		586				
v/c		0.02	0.00		0.04				
95% queue length		0.05	0.01		0.11				
Control Delay (s/veh)		8.4	17.0		11.4				
LOS		A	C		B				
Approach Delay (s/veh)	--	--	11.6						
Approach LOS	--	--	B						

TWO-WAY STOP CONTROL SUMMARY

General Information				Site Information			
Analyst	DRC	Intersection	#3				
Agency/Co.	C&P ENGINEERING	Jurisdiction	LUCAS				
Date Performed	5/23/2011	Analysis Year	20204				
Analysis Time Period	A.M. SCHOOL PEAK						
Project Description 2020 TOTAL VOLUMES							
East/West Street: LUCAS		North/South Street: WSMS WEST DRIVE					
Intersection Orientation: East-West		Study Period (hrs): 0.25					
Vehicle Volumes and Adjustments							
Major Street	Eastbound			Westbound			
Movement	1	2	3	4	5	6	
	L	T	R	L	T	R	
Volume (veh/h)		359	3	60	776		
Peak-Hour Factor, PHF	0.90	0.90	0.90	0.90	0.90	0.90	
Hourly Flow Rate, HFR (veh/h)	0	398	3	66	862	0	
Percent Heavy Vehicles	0	--	--	2	--	--	
Median Type	Undivided						
RT Channelized			0			0	
Lanes	0	1	0	0	1	0	
Configuration			TR	LT			
Upstream Signal		0			0		
Minor Street	Northbound			Southbound			
Movement	7	8	9	10	11	12	
	L	T	R	L	T	R	
Volume (veh/h)	2		50				
Peak-Hour Factor, PHF	0.90	0.90	0.90	0.90	0.90	0.90	
Hourly Flow Rate, HFR (veh/h)	2	0	55	0	0	0	
Percent Heavy Vehicles	2	0	2	0	0	0	
Percent Grade (%)	0			0			
Flared Approach		N			N		
Storage		0			0		
RT Channelized			0			0	
Lanes	1	0	1	0	0	0	
Configuration	L		R				
Delay, Queue Length, and Level of Service							
Approach	Eastbound	Westbound	Northbound			Southbound	
Movement	1	4	7	8	9	10	11 12
Lane Configuration		LT	L		R		
v (veh/h)		66	2		55		
C (m) (veh/h)		1158	147		650		
v/c		0.06	0.01		0.08		
95% queue length		0.18	0.04		0.28		
Control Delay (s/veh)		8.3	29.8		11.0		
LOS		A	D		B		
Approach Delay (s/veh)	--	--	11.7				
Approach LOS	--	--	B				

TWO-WAY STOP CONTROL SUMMARY

General Information							Site Information		
Analyst	DRC			Intersection	#3				
Agency/Co.	C&P ENGINEERING			Jurisdiction	LUCAS				
Date Performed	5/23/2011			Analysis Year	2020				
Analysis Time Period	P.M. SCHOOL PEAK								
Project Description 2020 TOTAL VOLUMES									
East/West Street: LUCAS					North/South Street: WSMS WEST DRIVE				
Intersection Orientation: East-West					Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments									
Major Street	Eastbound			Westbound					
Movement	1	2	3	4	5	6			
	L	T	R	L	T	R			
Volume (veh/h)		465	2	28	368				
Peak-Hour Factor, PHF	0.87	0.87	0.87	0.87	0.87	0.87			
Hourly Flow Rate, HFR (veh/h)	0	534	2	32	422	0			
Percent Heavy Vehicles	0	--	--	2	--	--			
Median Type	Undivided								
RT Channelized			0			0			
Lanes	0	1	0	0	1	0			
Configuration			TR	LT					
Upstream Signal		0			0				
Minor Street	Northbound			Southbound					
Movement	7	8	9	10	11	12			
	L	T	R	L	T	R			
Volume (veh/h)	2		34						
Peak-Hour Factor, PHF	0.87	0.87	0.87	0.87	0.87	0.87			
Hourly Flow Rate, HFR (veh/h)	2	0	39	0	0	0			
Percent Heavy Vehicles	2	0	2	0	0	0			
Percent Grade (%)	0			0					
Flared Approach		N			N				
Storage		0			0				
RT Channelized			0			0			
Lanes	1	0	1	0	0	0			
Configuration	L		R						
Delay, Queue Length, and Level of Service									
Approach	Eastbound	Westbound	Northbound			Southbound			
Movement	1	4	7	8	9	10	11	12	
Lane Configuration		LT	L		R				
v (veh/h)		32	2		39				
C (m) (veh/h)		1032	254		545				
v/c		0.03	0.01		0.07				
95% queue length		0.10	0.02		0.23				
Control Delay (s/veh)		8.6	19.3		12.1				
LOS		A	C		B				
Approach Delay (s/veh)	--	--	12.5						
Approach LOS	--	--	B						

TWO-WAY STOP CONTROL SUMMARY

General Information							Site Information		
Analyst	DRC			Intersection	#4				
Agency/Co.	C&P ENGINEERING			Jurisdiction	LUCAS				
Date Performed	5/23/2011			Analysis Year	2012				
Analysis Time Period	A.M. SCHOOL PEAK								
Project Description 2012 TOTAL VOLUMES									
East/West Street: LUCAS					North/South Street: WSMS EAST DRIVE				
Intersection Orientation: East-West					Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments									
Major Street	Eastbound			Westbound					
Movement	1	2	3	4	5	6			
	L	T	R	L	T	R			
Volume (veh/h)		304	5	92	664				
Peak-Hour Factor, PHF	0.87	0.87	0.87	0.87	0.87	0.87			
Hourly Flow Rate, HFR (veh/h)	0	349	5	105	763	0			
Percent Heavy Vehicles	0	--	--	2	--	--			
Median Type	Undivided								
RT Channelized			0			0			
Lanes	0	1	0	0	1	0			
Configuration			TR	LT					
Upstream Signal		0			0				
Minor Street	Northbound			Southbound					
Movement	7	8	9	10	11	12			
	L	T	R	L	T	R			
Volume (veh/h)	4		74						
Peak-Hour Factor, PHF	0.87	0.87	0.87	0.87	0.87	0.87			
Hourly Flow Rate, HFR (veh/h)	4	0	85	0	0	0			
Percent Heavy Vehicles	2	0	2	0	0	0			
Percent Grade (%)	0			0					
Flared Approach		N			N				
Storage		0			0				
RT Channelized			0			0			
Lanes	1	0	1	0	0	0			
Configuration	L		R						
Delay, Queue Length, and Level of Service									
Approach	Eastbound	Westbound	Northbound			Southbound			
Movement	1	4	7	8	9	10	11	12	
Lane Configuration		LT	L		R				
v (veh/h)		105	4		85				
C (m) (veh/h)		1205	157		692				
v/c		0.09	0.03		0.12				
95% queue length		0.29	0.08		0.42				
Control Delay (s/veh)		8.3	28.5		10.9				
LOS		A	D		B				
Approach Delay (s/veh)	--	--	11.7						
Approach LOS	--	--	B						

TWO-WAY STOP CONTROL SUMMARY

General Information							Site Information		
Analyst	DRC			Intersection	#4				
Agency/Co.	C&P ENGINEERING			Jurisdiction	LUCAS				
Date Performed	5/23/2011			Analysis Year	2012				
Analysis Time Period	P.M. SCHOOL PEAK								
Project Description 2012 TOTAL VOLUMES									
East/West Street: LUCAS					North/South Street: WSMS EAST DRIVE				
Intersection Orientation: East-West					Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments									
Major Street	Eastbound			Westbound					
Movement	1	2	3	4	5	6			
	L	T	R	L	T	R			
Volume (veh/h)		395	2	43	304				
Peak-Hour Factor, PHF	0.87	0.87	0.87	0.87	0.87	0.87			
Hourly Flow Rate, HFR (veh/h)	0	454	2	49	349	0			
Percent Heavy Vehicles	0	--	--	2	--	--			
Median Type	Undivided								
RT Channelized			0			0			
Lanes	0	1	0	0	1	0			
Configuration			TR	LT					
Upstream Signal		0			0				
Minor Street	Northbound			Southbound					
Movement	7	8	9	10	11	12			
	L	T	R	L	T	R			
Volume (veh/h)	3		52						
Peak-Hour Factor, PHF	0.87	0.87	0.87	0.87	0.87	0.87			
Hourly Flow Rate, HFR (veh/h)	3	0	59	0	0	0			
Percent Heavy Vehicles	2	0	2	0	0	0			
Percent Grade (%)	0			0					
Flared Approach		N			N				
Storage		0			0				
RT Channelized			0			0			
Lanes	1	0	1	0	0	0			
Configuration	L		R						
Delay, Queue Length, and Level of Service									
Approach	Eastbound	Westbound	Northbound			Southbound			
Movement	1	4	7	8	9	10	11	12	
Lane Configuration		LT	L		R				
v (veh/h)		49	3		59				
C (m) (veh/h)		1105	294		605				
v/c		0.04	0.01		0.10				
95% queue length		0.14	0.03		0.32				
Control Delay (s/veh)		8.4	17.4		11.6				
LOS		A	C		B				
Approach Delay (s/veh)	--	--	11.9						
Approach LOS	--	--	B						

TWO-WAY STOP CONTROL SUMMARY

General Information							Site Information		
Analyst	DRC			Intersection	#4				
Agency/Co.	C&P ENGINEERING			Jurisdiction	LUCAS				
Date Performed	5/23/2011			Analysis Year	2014				
Analysis Time Period	A.M. SCHOOL PEAK								
Project Description 2014 TOTAL VOLUMES									
East/West Street: LUCAS					North/South Street: WSMS EAST DRIVE				
Intersection Orientation: East-West					Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments									
Major Street	Eastbound			Westbound					
Movement	1	2	3	4	5	6			
	L	T	R	L	T	R			
Volume (veh/h)		350	5	103	723				
Peak-Hour Factor, PHF	0.90	0.90	0.90	0.90	0.90	0.90			
Hourly Flow Rate, HFR (veh/h)	0	388	5	114	803	0			
Percent Heavy Vehicles	0	--	--	2	--	--			
Median Type	Undivided								
RT Channelized			0			0			
Lanes	0	1	0	0	1	0			
Configuration			TR	LT					
Upstream Signal		0			0				
Minor Street	Northbound			Southbound					
Movement	7	8	9	10	11	12			
	L	T	R	L	T	R			
Volume (veh/h)	5		83						
Peak-Hour Factor, PHF	0.90	0.90	0.90	0.90	0.90	0.90			
Hourly Flow Rate, HFR (veh/h)	5	0	92	0	0	0			
Percent Heavy Vehicles	2	0	2	0	0	0			
Percent Grade (%)	0			0					
Flared Approach		N			N				
Storage		0			0				
RT Channelized			0			0			
Lanes	1	0	1	0	0	0			
Configuration	L		R						
Delay, Queue Length, and Level of Service									
Approach	Eastbound	Westbound	Northbound			Southbound			
Movement	1	4	7	8	9	10	11	12	
Lane Configuration		LT	L		R				
v (veh/h)		114	5		92				
C (m) (veh/h)		1166	135		658				
v/c		0.10	0.04		0.14				
95% queue length		0.32	0.11		0.48				
Control Delay (s/veh)		8.4	32.7		11.4				
LOS		A	D		B				
Approach Delay (s/veh)	--	--	12.5						
Approach LOS	--	--	B						

TWO-WAY STOP CONTROL SUMMARY

General Information				Site Information			
Analyst	DRC	Intersection	#4				
Agency/Co.	C&P ENGINEERING	Jurisdiction	LUCAS				
Date Performed	5/23/2011	Analysis Year	2014				
Analysis Time Period	P.M. SCHOOL PEAK						
Project Description 2014 TOTAL VOLUMES							
East/West Street: LUCAS		North/South Street: WSMS EAST DRIVE					
Intersection Orientation: East-West		Study Period (hrs): 0.25					
Vehicle Volumes and Adjustments							
Major Street	Eastbound			Westbound			
Movement	1	2	3	4	5	6	
	L	T	R	L	T	R	
Volume (veh/h)		435	2	48	352		
Peak-Hour Factor, PHF	0.87	0.87	0.87	0.87	0.87	0.87	
Hourly Flow Rate, HFR (veh/h)	0	499	2	55	404	0	
Percent Heavy Vehicles	0	--	--	2	--	--	
Median Type	Undivided						
RT Channelized			0			0	
Lanes	0	1	0	0	1	0	
Configuration			TR	LT			
Upstream Signal		0			0		
Minor Street	Northbound			Southbound			
Movement	7	8	9	10	11	12	
	L	T	R	L	T	R	
Volume (veh/h)	3		59				
Peak-Hour Factor, PHF	0.87	0.87	0.87	0.87	0.87	0.87	
Hourly Flow Rate, HFR (veh/h)	3	0	67	0	0	0	
Percent Heavy Vehicles	2	0	2	0	0	0	
Percent Grade (%)	0			0			
Flared Approach		N			N		
Storage		0			0		
RT Channelized			0			0	
Lanes	1	0	1	0	0	0	
Configuration	L		R				
Delay, Queue Length, and Level of Service							
Approach	Eastbound	Westbound	Northbound			Southbound	
Movement	1	4	7	8	9	10	11
Lane Configuration		LT	L		R		
v (veh/h)		55	3		67		
C (m) (veh/h)		1063	250		571		
v/c		0.05	0.01		0.12		
95% queue length		0.16	0.04		0.40		
Control Delay (s/veh)		8.6	19.6		12.1		
LOS		A	C		B		
Approach Delay (s/veh)	--	--	12.5				
Approach LOS	--	--	B				

TWO-WAY STOP CONTROL SUMMARY

General Information							Site Information		
Analyst	DRC			Intersection	#4				
Agency/Co.	C&P ENGINEERING			Jurisdiction	LUCAS				
Date Performed	5/23/2011			Analysis Year	2020				
Analysis Time Period	A.M. SCHOOL PEAK								
Project Description 2020 TOTAL VOLUMES									
East/West Street: LUCAS					North/South Street: WSMS EAST DRIVE				
Intersection Orientation: East-West					Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments									
Major Street	Eastbound			Westbound					
Movement	1	2	3	4	5	6			
	L	T	R	L	T	R			
Volume (veh/h)		399	10	179	828				
Peak-Hour Factor, PHF	0.90	0.90	0.90	0.90	0.90	0.90			
Hourly Flow Rate, HFR (veh/h)	0	443	11	198	920	0			
Percent Heavy Vehicles	0	--	--	2	--	--			
Median Type	Undivided								
RT Channelized			0			0			
Lanes	0	1	0	0	1	0			
Configuration			TR	LT					
Upstream Signal		0			0				
Minor Street	Northbound			Southbound					
Movement	7	8	9	10	11	12			
	L	T	R	L	T	R			
Volume (veh/h)	8		147						
Peak-Hour Factor, PHF	0.90	0.90	0.90	0.90	0.90	0.90			
Hourly Flow Rate, HFR (veh/h)	8	0	163	0	0	0			
Percent Heavy Vehicles	2	0	2	0	0	0			
Percent Grade (%)	0			0					
Flared Approach		N			N				
Storage		0			0				
RT Channelized			0			0			
Lanes	1	0	1	0	0	0			
Configuration	L		R						
Delay, Queue Length, and Level of Service									
Approach	Eastbound	Westbound	Northbound			Southbound			
Movement	1	4	7	8	9	10	11	12	
Lane Configuration		LT	L		R				
v (veh/h)		198	8		163				
C (m) (veh/h)		1107	76		611				
v/c		0.18	0.11		0.27				
95% queue length		0.65	0.34		1.07				
Control Delay (s/veh)		9.0	57.9		13.0				
LOS		A	F		B				
Approach Delay (s/veh)	--	--	15.1						
Approach LOS	--	--	C						

TWO-WAY STOP CONTROL SUMMARY

General Information							Site Information		
Analyst	DRC			Intersection	#4				
Agency/Co.	C&P ENGINEERING			Jurisdiction	LUCAS				
Date Performed	5/23/2011			Analysis Year	2020				
Analysis Time Period	P.M. SCHOOL PEAK								
Project Description 2020 TOTAL VOLUMES									
East/West Street: LUCAS					North/South Street: WSMS EAST DRIVE				
Intersection Orientation: East-West					Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments									
Major Street	Eastbound			Westbound					
Movement	1	2	3	4	5	6			
	L	T	R	L	T	R			
Volume (veh/h)		495	4	85	391				
Peak-Hour Factor, PHF	0.87	0.87	0.87	0.87	0.87	0.87			
Hourly Flow Rate, HFR (veh/h)	0	568	4	97	449	0			
Percent Heavy Vehicles	0	--	--	2	--	--			
Median Type	Undivided								
RT Channelized			0			0			
Lanes	0	1	0	0	1	0			
Configuration			TR	LT					
Upstream Signal		0			0				
Minor Street	Northbound			Southbound					
Movement	7	8	9	10	11	12			
	L	T	R	L	T	R			
Volume (veh/h)	5		104						
Peak-Hour Factor, PHF	0.87	0.87	0.87	0.87	0.87	0.87			
Hourly Flow Rate, HFR (veh/h)	5	0	119	0	0	0			
Percent Heavy Vehicles	2	0	2	0	0	0			
Percent Grade (%)	0			0					
Flared Approach		N			N				
Storage		0			0				
RT Channelized			0			0			
Lanes	1	0	1	0	0	0			
Configuration	L		R						
Delay, Queue Length, and Level of Service									
Approach	Eastbound	Westbound	Northbound			Southbound			
Movement	1	4	7	8	9	10	11	12	
Lane Configuration		LT	L		R				
v (veh/h)		97	5		119				
C (m) (veh/h)		1001	182		521				
v/c		0.10	0.03		0.23				
95% queue length		0.32	0.08		0.87				
Control Delay (s/veh)		9.0	25.3		13.9				
LOS		A	D		B				
Approach Delay (s/veh)	--	--	14.4						
Approach LOS	--	--	B						

TWO-WAY STOP CONTROL SUMMARY

General Information							Site Information		
Analyst	DRC		Intersection	#5					
Agency/Co.	C&P ENGINEERING		Jurisdiction	LUCAS					
Date Performed	5/23/2011		Analysis Year	2012					
Analysis Time Period	A.M. SCHOOL PEAK								
Project Description 2012 TOTAL VOLUMES									
East/West Street: LUCAS			North/South Street: LCA WEST DRIVE						
Intersection Orientation: East-West			Study Period (hrs): 0.25						
Vehicle Volumes and Adjustments									
Major Street	Eastbound			Westbound					
Movement	1	2	3	4	5	6			
	L	T	R	L	T	R			
Volume (veh/h)		414	107	35	989				
Peak-Hour Factor, PHF	0.90	0.90	0.90	0.90	0.90	0.90			
Hourly Flow Rate, HFR (veh/h)	0	460	118	38	1098	0			
Percent Heavy Vehicles	0	--	--	2	--	--			
Median Type	Undivided								
RT Channelized			0			0			
Lanes	0	1	0	0	1	0			
Configuration			TR	LT					
Upstream Signal		0			0				
Minor Street	Northbound			Southbound					
Movement	7	8	9	10	11	12			
	L	T	R	L	T	R			
Volume (veh/h)									
Peak-Hour Factor, PHF	0.90	0.90	0.90	0.90	0.90	0.90			
Hourly Flow Rate, HFR (veh/h)	0	0	0	0	0	0			
Percent Heavy Vehicles	0	0	0	0	0	0			
Percent Grade (%)	0			0					
Flared Approach		N			N				
Storage		0			0				
RT Channelized			0			0			
Lanes	0	0	0	0	0	0			
Configuration									
Delay, Queue Length, and Level of Service									
Approach	Eastbound	Westbound	Northbound			Southbound			
Movement	1	4	7	8	9	10	11	12	
Lane Configuration		LT							
v (veh/h)		38							
C (m) (veh/h)		996							
v/c		0.04							
95% queue length		0.12							
Control Delay (s/veh)		8.8							
LOS		A							
Approach Delay (s/veh)	--	--							
Approach LOS	--	--							

TWO-WAY STOP CONTROL SUMMARY

General Information							Site Information		
Analyst	DRC		Intersection	#5					
Agency/Co.	C&P ENGINEERING		Jurisdiction	LUCAS					
Date Performed	5/23/2011		Analysis Year	2012					
Analysis Time Period	P.M. SCHOOL PEAK								
Project Description 2012 TOTAL VOLUMES									
East/West Street: LUCAS			North/South Street: LCA WEST DRIVE						
Intersection Orientation: East-West			Study Period (hrs): 0.25						
Vehicle Volumes and Adjustments									
Major Street	Eastbound			Westbound					
Movement	1	2	3	4	5	6			
	L	T	R	L	T	R			
Volume (veh/h)		614	59	20	446				
Peak-Hour Factor, PHF	0.87	0.87	0.87	0.87	0.87	0.87			
Hourly Flow Rate, HFR (veh/h)	0	705	67	22	512	0			
Percent Heavy Vehicles	0	--	--	2	--	--			
Median Type	Undivided								
RT Channelized			0			0			
Lanes	0	1	0	0	1	0			
Configuration			TR	LT					
Upstream Signal		0			0				
Minor Street	Northbound			Southbound					
Movement	7	8	9	10	11	12			
	L	T	R	L	T	R			
Volume (veh/h)									
Peak-Hour Factor, PHF	0.87	0.87	0.87	0.87	0.87	0.87			
Hourly Flow Rate, HFR (veh/h)	0	0	0	0	0	0			
Percent Heavy Vehicles	0	0	0	0	0	0			
Percent Grade (%)	0			0					
Flared Approach		N			N				
Storage		0			0				
RT Channelized			0			0			
Lanes	0	0	0	0	0	0			
Configuration									
Delay, Queue Length, and Level of Service									
Approach	Eastbound	Westbound	Northbound			Southbound			
Movement	1	4	7	8	9	10	11	12	
Lane Configuration		LT							
v (veh/h)		22							
C (m) (veh/h)		843							
v/c		0.03							
95% queue length		0.08							
Control Delay (s/veh)		9.4							
LOS		A							
Approach Delay (s/veh)	--	--							
Approach LOS	--	--							

TWO-WAY STOP CONTROL SUMMARY

General Information							Site Information		
Analyst	DRC			Intersection	#5				
Agency/Co.	C&P ENGINEERING			Jurisdiction	LUCAS				
Date Performed	5/23/2011			Analysis Year	2014				
Analysis Time Period	A.M. SCHOOL PEAK								
Project Description 2014 TOTAL VOLUMES									
East/West Street: LUCAS				North/South Street: LCA WEST DRIVE					
Intersection Orientation: East-West				Study Period (hrs): 0.25					
Vehicle Volumes and Adjustments									
Major Street	Eastbound			Westbound					
Movement	1	2	3	4	5	6			
	L	T	R	L	T	R			
Volume (veh/h)		442	149	50	1076				
Peak-Hour Factor, PHF	0.90	0.90	0.90	0.90	0.90	0.90			
Hourly Flow Rate, HFR (veh/h)	0	491	165	55	1195	0			
Percent Heavy Vehicles	0	--	--	2	--	--			
Median Type	Undivided								
RT Channelized			0			0			
Lanes	0	1	0	0	1	0			
Configuration			TR	LT					
Upstream Signal		0			0				
Minor Street	Northbound			Southbound					
Movement	7	8	9	10	11	12			
	L	T	R	L	T	R			
Volume (veh/h)									
Peak-Hour Factor, PHF	0.90	0.90	0.90	0.90	0.90	0.90			
Hourly Flow Rate, HFR (veh/h)	0	0	0	0	0	0			
Percent Heavy Vehicles	0	0	0	0	0	0			
Percent Grade (%)	0			0					
Flared Approach		N			N				
Storage		0			0				
RT Channelized			0			0			
Lanes	0	0	0	0	0	0			
Configuration									
Delay, Queue Length, and Level of Service									
Approach	Eastbound	Westbound	Northbound			Southbound			
Movement	1	4	7	8	9	10	11	12	
Lane Configuration		LT							
v (veh/h)		55							
C (m) (veh/h)		931							
v/c		0.06							
95% queue length		0.19							
Control Delay (s/veh)		9.1							
LOS		A							
Approach Delay (s/veh)	--	--							
Approach LOS	--	--							

TWO-WAY STOP CONTROL SUMMARY

General Information							Site Information		
Analyst	DRC			Intersection	#5				
Agency/Co.	C&P ENGINEERING			Jurisdiction	LUCAS				
Date Performed	5/23/2011			Analysis Year	2014				
Analysis Time Period	P.M. SCHOOL PEAK								
Project Description 2014 TOTAL VOLUMES									
East/West Street: LUCAS					North/South Street: LCA WEST DRIVE				
Intersection Orientation: East-West					Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments									
Major Street	Eastbound			Westbound					
Movement	1	2	3	4	5	6			
	L	T	R	L	T	R			
Volume (veh/h)		654	83	27	512				
Peak-Hour Factor, PHF	0.87	0.87	0.87	0.87	0.87	0.87			
Hourly Flow Rate, HFR (veh/h)	0	751	95	31	588	0			
Percent Heavy Vehicles	0	--	--	2	--	--			
Median Type	Undivided								
RT Channelized			0			0			
Lanes	0	1	0	0	1	0			
Configuration			TR	LT					
Upstream Signal		0			0				
Minor Street	Northbound			Southbound					
Movement	7	8	9	10	11	12			
	L	T	R	L	T	R			
Volume (veh/h)									
Peak-Hour Factor, PHF	0.87	0.87	0.87	0.87	0.87	0.87			
Hourly Flow Rate, HFR (veh/h)	0	0	0	0	0	0			
Percent Heavy Vehicles	0	0	0	0	0	0			
Percent Grade (%)	0			0					
Flared Approach		N			N				
Storage		0			0				
RT Channelized			0			0			
Lanes	0	0	0	0	0	0			
Configuration									
Delay, Queue Length, and Level of Service									
Approach	Eastbound	Westbound	Northbound			Southbound			
Movement	1	4	7	8	9	10	11	12	
Lane Configuration		LT							
v (veh/h)		31							
C (m) (veh/h)		791							
v/c		0.04							
95% queue length		0.12							
Control Delay (s/veh)		9.7							
LOS		A							
Approach Delay (s/veh)	--	--							
Approach LOS	--	--							

TWO-WAY STOP CONTROL SUMMARY

General Information							Site Information		
Analyst	DRC			Intersection	#5				
Agency/Co.	C&P ENGINEERING			Jurisdiction	LUCAS				
Date Performed	5/23/2011			Analysis Year	2020				
Analysis Time Period	A.M. SCHOOL PEAK								
Project Description 2020 TOTAL VOLUMES									
East/West Street: LUCAS					North/South Street: LCA WEST DRIVE				
Intersection Orientation: East-West					Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments									
Major Street	Eastbound			Westbound					
Movement	1	2	3	4	5	6			
	L	T	R	L	T	R			
Volume (veh/h)		529	149	50	1239				
Peak-Hour Factor, PHF	0.90	0.90	0.90	0.90	0.90	0.90			
Hourly Flow Rate, HFR (veh/h)	0	587	165	55	1376	0			
Percent Heavy Vehicles	0	--	--	2	--	--			
Median Type	Undivided								
RT Channelized			0			0			
Lanes	0	1	0	0	1	0			
Configuration			TR	LT					
Upstream Signal		0			0				
Minor Street	Northbound			Southbound					
Movement	7	8	9	10	11	12			
	L	T	R	L	T	R			
Volume (veh/h)									
Peak-Hour Factor, PHF	0.90	0.90	0.90	0.90	0.90	0.90			
Hourly Flow Rate, HFR (veh/h)	0	0	0	0	0	0			
Percent Heavy Vehicles	0	0	0	0	0	0			
Percent Grade (%)	0			0					
Flared Approach		N			N				
Storage		0			0				
RT Channelized			0			0			
Lanes	0	0	0	0	0	0			
Configuration									
Delay, Queue Length, and Level of Service									
Approach	Eastbound	Westbound	Northbound			Southbound			
Movement	1	4	7	8	9	10	11	12	
Lane Configuration		LT							
v (veh/h)		55							
C (m) (veh/h)		858							
v/c		0.06							
95% queue length		0.21							
Control Delay (s/veh)		9.5							
LOS		A							
Approach Delay (s/veh)	--	--							
Approach LOS	--	--							

TWO-WAY STOP CONTROL SUMMARY

General Information							Site Information		
Analyst	DRC			Intersection	#5				
Agency/Co.	C&P ENGINEERING			Jurisdiction	LUCAS				
Date Performed	5/23/2011			Analysis Year	2020				
Analysis Time Period	P.M. SCHOOL PEAK								
Project Description 2020 TOTAL VOLUMES									
East/West Street: LUCAS					North/South Street: LCA WEST DRIVE				
Intersection Orientation: East-West					Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments									
Major Street		Eastbound			Westbound				
Movement	1	2	3	4	5	6			
	L	T	R	L	T	R			
Volume (veh/h)		758	83	27	579				
Peak-Hour Factor, PHF	0.87	0.87	0.87	0.87	0.87	0.87			
Hourly Flow Rate, HFR (veh/h)	0	871	95	31	665	0			
Percent Heavy Vehicles	0	--	--	2	--	--			
Median Type	Undivided								
RT Channelized			0						0
Lanes	0	1	0	0	1	0			
Configuration			TR	LT					
Upstream Signal		0			0				
Minor Street		Northbound			Southbound				
Movement	7	8	9	10	11	12			
	L	T	R	L	T	R			
Volume (veh/h)									
Peak-Hour Factor, PHF	0.87	0.87	0.87	0.87	0.87	0.87			
Hourly Flow Rate, HFR (veh/h)	0	0	0	0	0	0			
Percent Heavy Vehicles	0	0	0	0	0	0			
Percent Grade (%)	0			0					
Flared Approach		N			N				
Storage		0			0				
RT Channelized			0						0
Lanes	0	0	0	0	0	0			
Configuration									
Delay, Queue Length, and Level of Service									
Approach	Eastbound	Westbound	Northbound			Southbound			
Movement	1	4	7	8	9	10	11	12	
Lane Configuration		LT							
v (veh/h)		31							
C (m) (veh/h)		713							
v/c		0.04							
95% queue length		0.14							
Control Delay (s/veh)		10.3							
LOS		B							
Approach Delay (s/veh)	--	--							
Approach LOS	--	--							

TWO-WAY STOP CONTROL SUMMARY

General Information							Site Information		
Analyst	DRC			Intersection	#6				
Agency/Co.	C&P ENGINEERING			Jurisdiction	LUCAS				
Date Performed	5/23/2011			Analysis Year	2012				
Analysis Time Period	A.M. SCHOOL PEAK								
Project Description 2012 TOTAL VOLUMES									
East/West Street: LUCAS					North/South Street: LCA EAST DRIVE				
Intersection Orientation: East-West					Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments									
Major Street	Eastbound			Westbound					
Movement	1	2	3	4	5	6			
	L	T	R	L	T	R			
Volume (veh/h)		411	3	3	961				
Peak-Hour Factor, PHF	0.90	0.90	0.90	0.90	0.90	0.90			
Hourly Flow Rate, HFR (veh/h)	0	456	3	3	1067	0			
Percent Heavy Vehicles	0	--	--	2	--	--			
Median Type	Undivided								
RT Channelized			0			0			
Lanes	0	1	0	0	1	0			
Configuration			TR	LT					
Upstream Signal		0			0				
Minor Street	Northbound			Southbound					
Movement	7	8	9	10	11	12			
	L	T	R	L	T	R			
Volume (veh/h)	63		22						
Peak-Hour Factor, PHF	0.90	0.90	0.90	0.90	0.90	0.90			
Hourly Flow Rate, HFR (veh/h)	70	0	24	0	0	0			
Percent Heavy Vehicles	2	0	2	0	0	0			
Percent Grade (%)	0			0					
Flared Approach		N			N				
Storage		0			0				
RT Channelized			0			0			
Lanes	1	0	1	0	0	0			
Configuration	L		R						
Delay, Queue Length, and Level of Service									
Approach	Eastbound	Westbound	Northbound			Southbound			
Movement	1	4	7	8	9	10	11	12	
Lane Configuration		LT	L		R				
v (veh/h)		3	70		24				
C (m) (veh/h)		1102	129		603				
v/c		0.00	0.54		0.04				
95% queue length		0.01	2.63		0.12				
Control Delay (s/veh)		8.3	61.9		11.2				
LOS		A	F		B				
Approach Delay (s/veh)	--	--	49.0						
Approach LOS	--	--	E						

TWO-WAY STOP CONTROL SUMMARY

General Information							Site Information		
Analyst	DRC			Intersection	#6				
Agency/Co.	C&P ENGINEERING			Jurisdiction	LUCAS				
Date Performed	5/23/2011			Analysis Year	2012				
Analysis Time Period	P.M. SCHOOL PEAK								
Project Description 2012 TOTAL VOLUMES									
East/West Street: LUCAS				North/South Street: LCA EAST DRIVE					
Intersection Orientation: East-West				Study Period (hrs): 0.25					
Vehicle Volumes and Adjustments									
Major Street	Eastbound			Westbound					
Movement	1	2	3	4	5	6			
	L	T	R	L	T	R			
Volume (veh/h)		613	1	1	350				
Peak-Hour Factor, PHF	0.87	0.87	0.87	0.87	0.87	0.87			
Hourly Flow Rate, HFR (veh/h)	0	704	1	1	402	0			
Percent Heavy Vehicles	0	--	--	2	--	--			
Median Type	Undivided								
RT Channelized			0			0			
Lanes	0	1	0	0	1	0			
Configuration			TR	LT					
Upstream Signal		0			0				
Minor Street	Northbound			Southbound					
Movement	7	8	9	10	11	12			
	L	T	R	L	T	R			
Volume (veh/h)	116		40						
Peak-Hour Factor, PHF	0.87	0.87	0.87	0.87	0.87	0.87			
Hourly Flow Rate, HFR (veh/h)	133	0	45	0	0	0			
Percent Heavy Vehicles	2	0	2	0	0	0			
Percent Grade (%)	0			0					
Flared Approach		N			N				
Storage		0			0				
RT Channelized			0			0			
Lanes	1	0	1	0	0	0			
Configuration	L		R						
Delay, Queue Length, and Level of Service									
Approach	Eastbound	Westbound	Northbound			Southbound			
Movement	1	4	7	8	9	10	11	12	
Lane Configuration		LT	L		R				
v (veh/h)		1	133		45				
C (m) (veh/h)		893	232		437				
v/c		0.00	0.57		0.10				
95% queue length		0.00	3.20		0.34				
Control Delay (s/veh)		9.0	39.5		14.2				
LOS		A	E		B				
Approach Delay (s/veh)	--	--	33.1						
Approach LOS	--	--	D						

TWO-WAY STOP CONTROL SUMMARY

General Information							Site Information		
Analyst	DRC		Intersection	#6					
Agency/Co.	C&P ENGINEERING		Jurisdiction	LUCAS					
Date Performed	5/23/2011		Analysis Year	2014					
Analysis Time Period	A.M. SCHOOL PEAK								
Project Description 2014 TOTAL VOLUMES									
East/West Street: LUCAS			North/South Street: LCA EAST DRIVE						
Intersection Orientation: East-West			Study Period (hrs): 0.25						
Vehicle Volumes and Adjustments									
Major Street	Eastbound			Westbound					
Movement	1	2	3	4	5	6			
	L	T	R	L	T	R			
Volume (veh/h)		438	4	4	1036				
Peak-Hour Factor, PHF	0.90	0.90	0.90	0.90	0.90	0.90			
Hourly Flow Rate, HFR (veh/h)	0	486	4	4	1151	0			
Percent Heavy Vehicles	0	--	--	2	--	--			
Median Type	Undivided								
RT Channelized			0			0			
Lanes	0	1	0	0	1	0			
Configuration			TR	LT					
Upstream Signal		0			0				
Minor Street	Northbound			Southbound					
Movement	7	8	9	10	11	12			
	L	T	R	L	T	R			
Volume (veh/h)	90		31						
Peak-Hour Factor, PHF	0.90	0.90	0.90	0.90	0.90	0.90			
Hourly Flow Rate, HFR (veh/h)	100	0	34	0	0	0			
Percent Heavy Vehicles	2	0	2	0	0	0			
Percent Grade (%)	0			0					
Flared Approach		N			N				
Storage		0			0				
RT Channelized			0			0			
Lanes	1	0	1	0	0	0			
Configuration	L		R						
Delay, Queue Length, and Level of Service									
Approach	Eastbound	Westbound	Northbound			Southbound			
Movement	1	4	7	8	9	10	11	12	
Lane Configuration		LT	L		R				
v (veh/h)		4	100		34				
C (m) (veh/h)		1073	109		580				
v/c		0.00	0.92		0.06				
95% queue length		0.01	5.59		0.19				
Control Delay (s/veh)		8.4	137.7		11.6				
LOS		A	F		B				
Approach Delay (s/veh)	--	--	105.7						
Approach LOS	--	--	F						

TWO-WAY STOP CONTROL SUMMARY

General Information			Site Information	
Analyst	DRC		Intersection	#6
Agency/Co.	C&P ENGINEERING		Jurisdiction	LUCAS
Date Performed	5/23/2011		Analysis Year	2014
Analysis Time Period	P.M. SCHOOL PEAK			

Project Description 2014 TOTAL VOLUMES

East/West Street: LUCAS

North/South Street: LCA EAST DRIVE

Intersection Orientation: East-West

Study Period (hrs): 0.25

Vehicle Volumes and Adjustments

Major Street	Eastbound			Westbound		
Movement	1	2	3	4	5	6
	L	T	R	L	T	R
Volume (veh/h)		652	2	2	377	
Peak-Hour Factor, PHF	0.87	0.87	0.87	0.87	0.87	0.87
Hourly Flow Rate, HFR (veh/h)	0	749	2	2	433	0
Percent Heavy Vehicles	0	--	--	2	--	--
Median Type	Undivided					
RT Channelized			0			0
Lanes	0	1	0	0	1	0
Configuration			TR	LT		
Upstream Signal		0			0	

Minor Street	Northbound			Southbound		
Movement	7	8	9	10	11	12
	L	T	R	L	T	R
Volume (veh/h)	162		57			
Peak-Hour Factor, PHF	0.87	0.87	0.87	0.87	0.87	0.87
Hourly Flow Rate, HFR (veh/h)	186	0	65	0	0	0
Percent Heavy Vehicles	2	0	2	0	0	0
Percent Grade (%)	0			0		
Flared Approach		N			N	
Storage		0			0	
RT Channelized			0			0
Lanes	1	0	1	0	0	0
Configuration	L		R			

Delay, Queue Length, and Level of Service

Approach	Eastbound	Westbound	Northbound			Southbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration		LT	L		R			
v (veh/h)		2	186		65			
C (m) (veh/h)		858	208		411			
v/c		0.00	0.89		0.16			
95% queue length		0.01	7.09		0.56			
Control Delay (s/veh)		9.2	85.3		15.4			
LOS		A	F		C			
Approach Delay (s/veh)	--	--	67.2					
Approach LOS	--	--	F					

TWO-WAY STOP CONTROL SUMMARY

General Information							Site Information		
Analyst	DRC			Intersection	#6				
Agency/Co.	C&P ENGINEERING			Jurisdiction	LUCAS				
Date Performed	5/23/2011			Analysis Year	2020				
Analysis Time Period	A.M. SCHOOL PEAK								
Project Description 2020 TOTAL VOLUMES									
East/West Street: LUCAS					North/South Street: LCA EAST DRIVE				
Intersection Orientation: East-West					Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments									
Major Street	Eastbound			Westbound					
Movement	1	2	3	4	5	6			
	L	T	R	L	T	R			
Volume (veh/h)		521	8	8	1197				
Peak-Hour Factor, PHF	0.90	0.90	0.90	0.90	0.90	0.90			
Hourly Flow Rate, HFR (veh/h)	0	578	8	8	1330	0			
Percent Heavy Vehicles	0	--	--	2	--	--			
Median Type	Undivided								
RT Channelized			0			0			
Lanes	0	1	0	0	1	0			
Configuration			TR	LT					
Upstream Signal		0			0				
Minor Street	Northbound			Southbound					
Movement	7	8	9	10	11	12			
	L	T	R	L	T	R			
Volume (veh/h)	92		33						
Peak-Hour Factor, PHF	0.90	0.90	0.90	0.90	0.90	0.90			
Hourly Flow Rate, HFR (veh/h)	102	0	36	0	0	0			
Percent Heavy Vehicles	2	0	2	0	0	0			
Percent Grade (%)	0			0					
Flared Approach		N			N				
Storage		0			0				
RT Channelized			0			0			
Lanes	1	0	1	0	0	0			
Configuration	L		R						
Delay, Queue Length, and Level of Service									
Approach	Eastbound	Westbound	Northbound			Southbound			
Movement	1	4	7	8	9	10	11	12	
Lane Configuration		LT	L		R				
v (veh/h)		8	102		36				
C (m) (veh/h)		989	72		513				
v/c		0.01	1.42		0.07				
95% queue length		0.02	8.34		0.23				
Control Delay (s/veh)		8.7	350.4		12.5				
LOS		A	F		B				
Approach Delay (s/veh)	--	--	262.3						
Approach LOS	--	--	F						

TWO-WAY STOP CONTROL SUMMARY

General Information			Site Information	
Analyst	DRC		Intersection	#6
Agency/Co.	C&P ENGINEERING		Jurisdiction	LUCAS
Date Performed	5/23/2011		Analysis Year	2020
Analysis Time Period	P.M. SCHOOL PEAK			

Project Description 2020 TOTAL VOLUMES

East/West Street: LUCAS	North/South Street: LCA EAST DRIVE
Intersection Orientation: East-West	Study Period (hrs): 0.25

Vehicle Volumes and Adjustments

Major Street	Eastbound			Westbound		
Movement	1	2	3	4	5	6
	L	T	R	L	T	R
Volume (veh/h)		754	4	4	440	
Peak-Hour Factor, PHF	0.87	0.87	0.87	0.87	0.87	0.87
Hourly Flow Rate, HFR (veh/h)	0	866	4	4	505	0
Percent Heavy Vehicles	0	--	--	2	--	--
Median Type	Undivided					
RT Channelized			0			0
Lanes	0	1	0	0	1	0
Configuration			TR	LT		
Upstream Signal		0			0	

Minor Street	Northbound			Southbound		
Movement	7	8	9	10	11	12
	L	T	R	L	T	R
Volume (veh/h)	166		61			
Peak-Hour Factor, PHF	0.87	0.87	0.87	0.87	0.87	0.87
Hourly Flow Rate, HFR (veh/h)	190	0	70	0	0	0
Percent Heavy Vehicles	2	0	2	0	0	0
Percent Grade (%)	0			0		
Flared Approach		N			N	
Storage		0			0	
RT Channelized			0			0
Lanes	1	0	1	0	0	0
Configuration	L		R			

Delay, Queue Length, and Level of Service

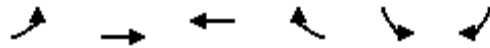
Approach	Eastbound	Westbound	Northbound			Southbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration		LT	L		R			
v (veh/h)		4	190		70			
C (m) (veh/h)		775	158		352			
v/c		0.01	1.20		0.20			
95% queue length		0.02	10.67		0.73			
Control Delay (s/veh)		9.7	193.4		17.7			
LOS		A	F		C			
Approach Delay (s/veh)	--	--	146.1					
Approach LOS	--	--	F					

SYNCHRO SHEETS

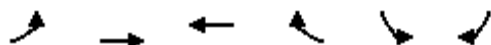
Lanes, Volumes, Timings
#1 - Country Club & Lucas

C&P ENGINEERING

5/23/2011



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↰	↰	↰	↰	↰
Volume (vph)	79	118	460	441	195	117
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0			300	1000	350
Storage Lanes	0			1	1	1
Taper Length (ft)	25			25	25	25
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt				0.850		0.850
Flt Protected		0.980			0.950	
Satd. Flow (prot)	0	1825	1863	1583	1770	1583
Flt Permitted		0.736			0.950	
Satd. Flow (perm)	0	1371	1863	1583	1770	1583
Right Turn on Red				Yes		Yes
Satd. Flow (RTOR)				490		130
Link Speed (mph)		50	50		50	
Link Distance (ft)		925	900		702	
Travel Time (s)		12.6	12.3		9.6	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90
Adj. Flow (vph)	88	131	511	490	217	130
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	219	511	490	217	130
Turn Type	pm+pt			Perm		Perm
Protected Phases	7	4	8		6	
Permitted Phases	4			8		6
Detector Phase	7	4	8	8	6	6
Switch Phase						
Minimum Initial (s)	4.0	4.0	4.0	4.0	4.0	4.0
Minimum Split (s)	10.0	20.0	20.0	20.0	20.0	20.0
Total Split (s)	10.0	35.0	25.0	25.0	20.0	20.0
Total Split (%)	18.2%	63.6%	45.5%	45.5%	36.4%	36.4%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	0.5	0.5	0.5	0.5	0.5	0.5
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0
Lead/Lag	Lead		Lag	Lag		
Lead-Lag Optimize?	Yes		Yes	Yes		
Recall Mode	None	None	None	None	None	None
Act Effect Green (s)		19.0	19.0	19.0	10.6	10.6
Actuated g/C Ratio		0.59	0.59	0.59	0.33	0.33
v/c Ratio		0.27	0.46	0.43	0.37	0.21
Control Delay		7.0	8.2	2.2	12.9	3.9
Queue Delay		0.0	0.0	0.0	0.0	0.0
Total Delay		7.0	8.2	2.2	12.9	3.9
LOS		A	A	A	B	A
Approach Delay		7.0	5.2		9.6	
Approach LOS		A	A		A	
Stops (vph)		103	269	41	142	23
Fuel Used(gal)		3	8	3	4	1
CO Emissions (g/hr)		211	526	234	249	68



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
NOx Emissions (g/hr)		41	102	45	48	13
VOC Emissions (g/hr)		49	122	54	58	16
Dilemma Vehicles (#)		21	51	0	0	0
Queue Length 50th (ft)		22	58	0	33	0
Queue Length 95th (ft)		62	143	33	81	25
Internal Link Dist (ft)		845	820		622	
Turn Bay Length (ft)				300	1000	350
Base Capacity (vph)		1201	1237	1216	980	934
Starvation Cap Reductn		0	0	0	0	0
Spillback Cap Reductn		0	0	0	0	0
Storage Cap Reductn		0	0	0	0	0
Reduced v/c Ratio		0.18	0.41	0.40	0.22	0.14

Intersection Summary

Area Type: Other

Cycle Length: 55

Actuated Cycle Length: 32.1

Natural Cycle: 55

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.46

Intersection Signal Delay: 6.4

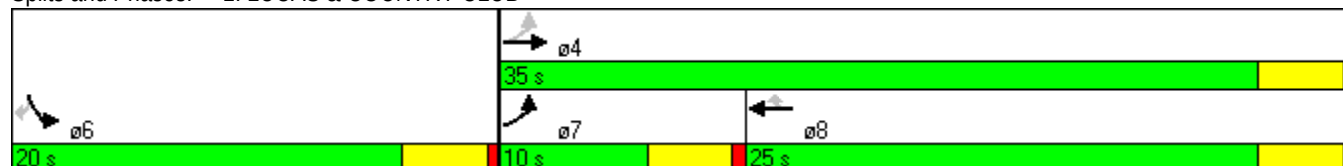
Intersection LOS: A

Intersection Capacity Utilization 55.6%

ICU Level of Service B

Analysis Period (min) 15

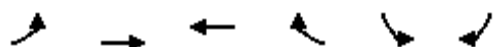
Splits and Phases: 1: LUCAS & COUNTRY CLUB



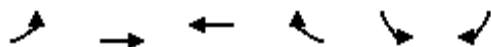
Lanes, Volumes, Timings
#1 - Country Club & Lucas

C&P ENGINEERING

5/23/2011



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↕	↕	↕	↕	↕
Volume (vph)	64	264	146	179	231	57
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0			300	1000	350
Storage Lanes	0			1	1	1
Taper Length (ft)	25			25	25	25
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt				0.850		0.850
Flt Protected		0.990			0.950	
Satd. Flow (prot)	0	1844	1863	1583	1770	1583
Flt Permitted		0.913			0.950	
Satd. Flow (perm)	0	1701	1863	1583	1770	1583
Right Turn on Red				Yes		Yes
Satd. Flow (RTOR)				206		66
Link Speed (mph)		50	50		50	
Link Distance (ft)		925	900		702	
Travel Time (s)		12.6	12.3		9.6	
Peak Hour Factor	0.87	0.87	0.87	0.87	0.87	0.87
Adj. Flow (vph)	74	303	168	206	266	66
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	377	168	206	266	66
Turn Type	pm+pt			Perm		Perm
Protected Phases	7	4	8		6	
Permitted Phases	4			8		6
Detector Phase	7	4	8	8	6	6
Switch Phase						
Minimum Initial (s)	4.0	4.0	4.0	4.0	4.0	4.0
Minimum Split (s)	10.0	20.0	20.0	20.0	20.0	20.0
Total Split (s)	10.0	30.0	20.0	20.0	20.0	20.0
Total Split (%)	20.0%	60.0%	40.0%	40.0%	40.0%	40.0%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	0.5	0.5	0.5	0.5	0.5	0.5
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0
Lead/Lag	Lead		Lag	Lag		
Lead-Lag Optimize?	Yes		Yes	Yes		
Recall Mode	None	None	None	None	None	None
Act Effect Green (s)		12.7	12.7	12.7	10.5	10.5
Actuated g/C Ratio		0.43	0.43	0.43	0.35	0.35
v/c Ratio		0.52	0.21	0.26	0.43	0.11
Control Delay		10.1	7.2	2.4	11.4	3.8
Queue Delay		0.0	0.0	0.0	0.0	0.0
Total Delay		10.1	7.2	2.4	11.4	3.8
LOS		B	A	A	B	A
Approach Delay		10.1	4.5		9.9	
Approach LOS		B	A		A	
Stops (vph)		204	78	23	156	15
Fuel Used(gal)		6	2	1	4	1
CO Emissions (g/hr)		401	157	102	277	37



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
NOx Emissions (g/hr)		78	31	20	54	7
VOC Emissions (g/hr)		93	36	24	64	9
Dilemma Vehicles (#)		44	18	0	0	0
Queue Length 50th (ft)		39	15	0	30	0
Queue Length 95th (ft)		108	47	22	91	16
Internal Link Dist (ft)		845	820		622	
Turn Bay Length (ft)				300	1000	350
Base Capacity (vph)		1444	1155	1060	1063	977
Starvation Cap Reductn		0	0	0	0	0
Spillback Cap Reductn		0	0	0	0	0
Storage Cap Reductn		0	0	0	0	0
Reduced v/c Ratio		0.26	0.15	0.19	0.25	0.07

Intersection Summary

Area Type: Other

Cycle Length: 50

Actuated Cycle Length: 29.6

Natural Cycle: 50

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.52

Intersection Signal Delay: 8.1

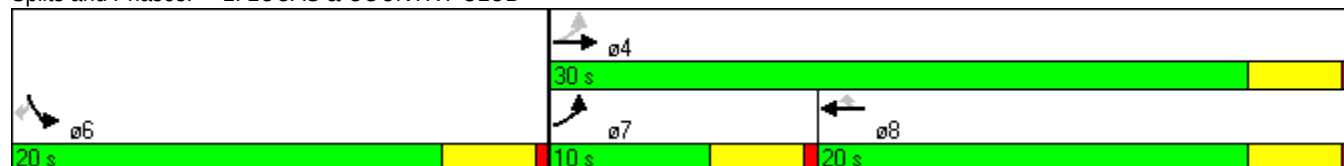
Intersection LOS: A

Intersection Capacity Utilization 47.9%

ICU Level of Service A

Analysis Period (min) 15

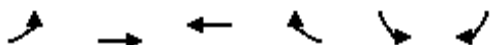
Splits and Phases: 1: LUCAS & COUNTRY CLUB



Lanes, Volumes, Timings
#1 - Country Club & Lucas

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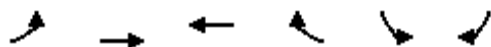


Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↕	↕	↕	↕	↕
Volume (vph)	133	245	572	467	228	184
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0			300	1000	350
Storage Lanes	0			1	1	1
Taper Length (ft)	25			25	25	25
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt				0.850		0.850
Flt Protected		0.983			0.950	
Satd. Flow (prot)	0	1831	1863	1583	1770	1583
Flt Permitted		0.610			0.950	
Satd. Flow (perm)	0	1136	1863	1583	1770	1583
Right Turn on Red				Yes		Yes
Satd. Flow (RTOR)				519		204
Link Speed (mph)		50	50		50	
Link Distance (ft)		925	900		702	
Travel Time (s)		12.6	12.3		9.6	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90
Adj. Flow (vph)	148	272	636	519	253	204
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	420	636	519	253	204
Turn Type	pm+pt			Perm		Perm
Protected Phases	7	4	8		6	
Permitted Phases	4			8		6
Detector Phase	7	4	8	8	6	6
Switch Phase						
Minimum Initial (s)	4.0	4.0	4.0	4.0	4.0	4.0
Minimum Split (s)	10.0	20.0	20.0	20.0	20.0	20.0
Total Split (s)	10.0	40.0	30.0	30.0	20.0	20.0
Total Split (%)	16.7%	66.7%	50.0%	50.0%	33.3%	33.3%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	0.5	0.5	0.5	0.5	0.5	0.5
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0
Lead/Lag	Lead		Lag	Lag		
Lead-Lag Optimize?	Yes		Yes	Yes		
Recall Mode	None	None	None	None	None	None
Act Effect Green (s)		30.6	30.6	30.6	12.4	12.4
Actuated g/C Ratio		0.59	0.59	0.59	0.24	0.24
v/c Ratio		0.62	0.57	0.45	0.59	0.38
Control Delay		12.0	9.1	2.0	25.1	5.6
Queue Delay		0.0	0.0	0.0	0.0	0.0
Total Delay		12.0	9.1	2.0	25.1	5.6
LOS		B	A	A	C	A
Approach Delay		12.0	5.9		16.4	
Approach LOS		B	A		B	
Stops (vph)		225	310	28	186	29
Fuel Used(gal)		7	9	3	5	1
CO Emissions (g/hr)		461	635	230	352	103

Lanes, Volumes, Timings
#1 - Country Club & Lucas

C&P ENGINEERING

5/23/2011



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
NOx Emissions (g/hr)		90	124	45	69	20
VOC Emissions (g/hr)		107	147	53	82	24
Dilemma Vehicles (#)		33	45	0	0	0
Queue Length 50th (ft)		70	102	0	78	0
Queue Length 95th (ft)		167	201	30	141	42
Internal Link Dist (ft)		845	820		622	
Turn Bay Length (ft)				300	1000	350
Base Capacity (vph)		812	1214	1213	582	658
Starvation Cap Reductn		0	0	0	0	0
Spillback Cap Reductn		0	0	0	0	0
Storage Cap Reductn		0	0	0	0	0
Reduced v/c Ratio		0.52	0.52	0.43	0.43	0.31

Intersection Summary

Area Type: Other

Cycle Length: 60

Actuated Cycle Length: 51.5

Natural Cycle: 60

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.62

Intersection Signal Delay: 9.6

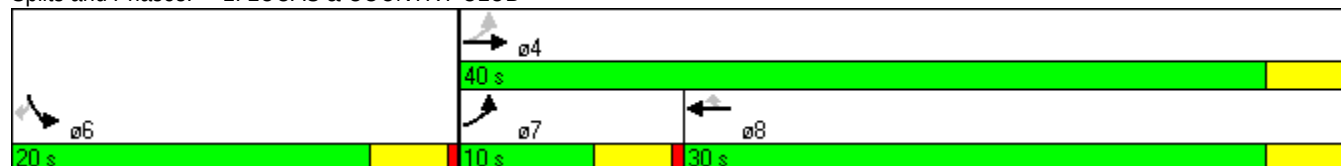
Intersection LOS: A

Intersection Capacity Utilization 73.0%

ICU Level of Service C

Analysis Period (min) 15

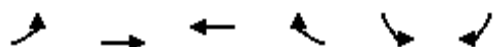
Splits and Phases: 1: LUCAS & COUNTRY CLUB



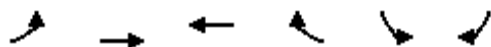
Lanes, Volumes, Timings
#1 - Country Club & Lucas

C&P ENGINEERING

5/23/2011



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↕	↕	↕	↕	↕
Volume (vph)	102	345	259	213	252	88
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0			300	1000	350
Storage Lanes	0			1	1	1
Taper Length (ft)	25			25	25	25
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt				0.850		0.850
Flt Protected		0.989			0.950	
Satd. Flow (prot)	0	1842	1863	1583	1770	1583
Flt Permitted		0.863			0.950	
Satd. Flow (perm)	0	1608	1863	1583	1770	1583
Right Turn on Red				Yes		Yes
Satd. Flow (RTOR)				245		101
Link Speed (mph)		50	50		50	
Link Distance (ft)		925	900		702	
Travel Time (s)		12.6	12.3		9.6	
Peak Hour Factor	0.87	0.87	0.87	0.87	0.87	0.87
Adj. Flow (vph)	117	397	298	245	290	101
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	514	298	245	290	101
Turn Type	pm+pt			Perm		Perm
Protected Phases	7	4	8		6	
Permitted Phases	4			8		6
Detector Phase	7	4	8	8	6	6
Switch Phase						
Minimum Initial (s)	4.0	4.0	4.0	4.0	4.0	4.0
Minimum Split (s)	10.0	20.0	20.0	20.0	20.0	20.0
Total Split (s)	10.0	30.0	20.0	20.0	20.0	20.0
Total Split (%)	20.0%	60.0%	40.0%	40.0%	40.0%	40.0%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	0.5	0.5	0.5	0.5	0.5	0.5
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0
Lead/Lag	Lead		Lag	Lag		
Lead-Lag Optimize?	Yes		Yes	Yes		
Recall Mode	None	None	None	None	None	None
Act Effect Green (s)		19.7	19.7	19.7	12.5	12.5
Actuated g/C Ratio		0.54	0.54	0.54	0.34	0.34
v/c Ratio		0.59	0.30	0.25	0.48	0.17
Control Delay		10.9	7.1	1.9	15.5	4.3
Queue Delay		0.0	0.0	0.0	0.0	0.0
Total Delay		10.9	7.1	1.9	15.5	4.3
LOS		B	A	A	B	A
Approach Delay		10.9	4.8		12.6	
Approach LOS		B	A		B	
Stops (vph)		281	129	20	186	18
Fuel Used(gal)		8	4	2	5	1
CO Emissions (g/hr)		554	268	112	333	52



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
NOx Emissions (g/hr)		108	52	22	65	10
VOC Emissions (g/hr)		129	62	26	77	12
Dilemma Vehicles (#)		56	28	0	0	0
Queue Length 50th (ft)		72	34	0	50	0
Queue Length 95th (ft)		164	78	22	121	23
Internal Link Dist (ft)		845	820		622	
Turn Bay Length (ft)				300	1000	350
Base Capacity (vph)		1146	1137	1062	912	865
Starvation Cap Reductn		0	0	0	0	0
Spillback Cap Reductn		0	0	0	0	0
Storage Cap Reductn		0	0	0	0	0
Reduced v/c Ratio		0.45	0.26	0.23	0.32	0.12

Intersection Summary

Area Type: Other

Cycle Length: 50

Actuated Cycle Length: 36.5

Natural Cycle: 50

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.59

Intersection Signal Delay: 9.1

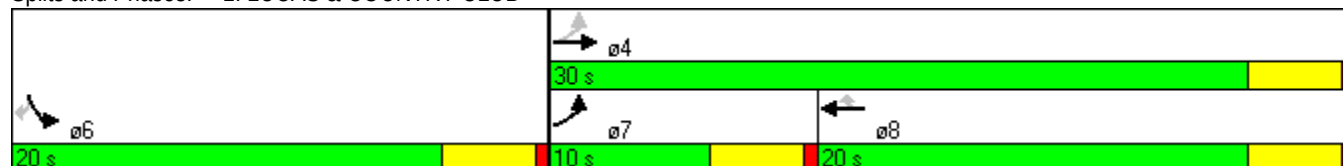
Intersection LOS: A

Intersection Capacity Utilization 61.4%

ICU Level of Service B

Analysis Period (min) 15

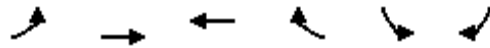
Splits and Phases: 1: LUCAS & COUNTRY CLUB



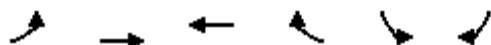
Lanes, Volumes, Timings
#1 - Country Club & Lucas

C&P ENGINEERING

5/23/2011



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↕	↕	↕	↕	↕
Volume (vph)	144	289	627	501	251	199
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0			300	1000	350
Storage Lanes	0			1	1	1
Taper Length (ft)	25			25	25	25
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt				0.850		0.850
Flt Protected		0.984			0.950	
Satd. Flow (prot)	0	1833	1863	1583	1770	1583
Flt Permitted		0.574			0.950	
Satd. Flow (perm)	0	1069	1863	1583	1770	1583
Right Turn on Red				Yes		Yes
Satd. Flow (RTOR)				557		221
Link Speed (mph)		50	50		50	
Link Distance (ft)		925	900		702	
Travel Time (s)		12.6	12.3		9.6	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90
Adj. Flow (vph)	160	321	697	557	279	221
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	481	697	557	279	221
Turn Type	pm+pt			Perm		Perm
Protected Phases	7	4	8		6	
Permitted Phases	4			8		6
Detector Phase	7	4	8	8	6	6
Switch Phase						
Minimum Initial (s)	4.0	4.0	4.0	4.0	4.0	4.0
Minimum Split (s)	12.0	20.0	20.0	20.0	20.0	20.0
Total Split (s)	12.0	50.0	38.0	38.0	20.0	20.0
Total Split (%)	17.1%	71.4%	54.3%	54.3%	28.6%	28.6%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	0.5	0.5	0.5	0.5	0.5	0.5
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0
Lead/Lag	Lead		Lag	Lag		
Lead-Lag Optimize?	Yes		Yes	Yes		
Recall Mode	None	None	None	None	None	None
Act Effect Green (s)		42.0	42.0	42.0	14.0	14.0
Actuated g/C Ratio		0.65	0.65	0.65	0.22	0.22
v/c Ratio		0.69	0.57	0.45	0.72	0.43
Control Delay		13.7	8.6	1.8	36.9	6.7
Queue Delay		0.0	0.0	0.0	0.0	0.0
Total Delay		13.7	8.6	1.8	36.9	6.7
LOS		B	A	A	D	A
Approach Delay		13.7	5.6		23.6	
Approach LOS		B	A		C	
Stops (vph)		265	310	22	215	30
Fuel Used(gal)		8	9	3	6	2
CO Emissions (g/hr)		547	660	236	441	113

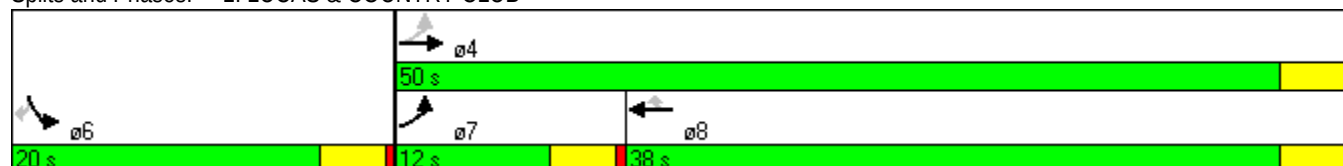


Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
NOx Emissions (g/hr)		106	128	46	86	22
VOC Emissions (g/hr)		127	153	55	102	26
Dilemma Vehicles (#)		32	39	0	0	0
Queue Length 50th (ft)		109	140	0	111	0
Queue Length 95th (ft)		221	221	28	#207	49
Internal Link Dist (ft)		845	820		622	
Turn Bay Length (ft)				300	1000	350
Base Capacity (vph)		780	1275	1259	455	571
Starvation Cap Reductn		0	0	0	0	0
Spillback Cap Reductn		0	0	0	0	0
Storage Cap Reductn		0	0	0	0	0
Reduced v/c Ratio		0.62	0.55	0.44	0.61	0.39

Intersection Summary

Area Type: Other
Cycle Length: 70
Actuated Cycle Length: 64.3
Natural Cycle: 70
Control Type: Actuated-Uncoordinated
Maximum v/c Ratio: 0.72
Intersection Signal Delay: 11.4 Intersection LOS: B
Intersection Capacity Utilization 80.1% ICU Level of Service D
Analysis Period (min) 15
95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

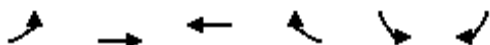
Splits and Phases: 1: LUCAS & COUNTRY CLUB



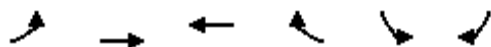
Lanes, Volumes, Timings
#1 - Country Club & Lucas

C&P ENGINEERING

5/23/2011



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↶	↶	↶	↶	↶
Volume (vph)	110	384	304	236	272	96
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0			300	1000	350
Storage Lanes	0			1	1	1
Taper Length (ft)	25			25	25	25
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt				0.850		0.850
Flt Protected		0.989			0.950	
Satd. Flow (prot)	0	1842	1863	1583	1770	1583
Flt Permitted		0.848			0.950	
Satd. Flow (perm)	0	1580	1863	1583	1770	1583
Right Turn on Red				Yes		Yes
Satd. Flow (RTOR)				271		110
Link Speed (mph)		50	50		50	
Link Distance (ft)		925	900		702	
Travel Time (s)		12.6	12.3		9.6	
Peak Hour Factor	0.87	0.87	0.87	0.87	0.87	0.87
Adj. Flow (vph)	126	441	349	271	313	110
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	567	349	271	313	110
Turn Type	pm+pt			Perm		Perm
Protected Phases	7	4	8		6	
Permitted Phases	4			8		6
Detector Phase	7	4	8	8	6	6
Switch Phase						
Minimum Initial (s)	4.0	4.0	4.0	4.0	4.0	4.0
Minimum Split (s)	12.0	20.0	20.0	20.0	20.0	20.0
Total Split (s)	12.0	38.0	26.0	26.0	22.0	22.0
Total Split (%)	20.0%	63.3%	43.3%	43.3%	36.7%	36.7%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	0.5	0.5	0.5	0.5	0.5	0.5
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0
Lead/Lag	Lead		Lag	Lag		
Lead-Lag Optimize?	Yes		Yes	Yes		
Recall Mode	None	None	None	None	None	None
Act Effect Green (s)		24.1	24.1	24.1	13.4	13.4
Actuated g/C Ratio		0.52	0.52	0.52	0.29	0.29
v/c Ratio		0.69	0.36	0.28	0.61	0.20
Control Delay		13.5	7.8	1.8	21.8	5.1
Queue Delay		0.0	0.0	0.0	0.0	0.0
Total Delay		13.5	7.8	1.8	21.8	5.1
LOS		B	A	A	C	A
Approach Delay		13.5	5.2		17.5	
Approach LOS		B	A		B	
Stops (vph)		320	148	17	216	18
Fuel Used(gal)		9	4	2	6	1
CO Emissions (g/hr)		640	314	119	401	56



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
NOx Emissions (g/hr)		125	61	23	78	11
VOC Emissions (g/hr)		148	73	27	93	13
Dilemma Vehicles (#)		47	26	0	0	0
Queue Length 50th (ft)		97	47	0	73	0
Queue Length 95th (ft)		203	98	23	159	27
Internal Link Dist (ft)		845	820		622	
Turn Bay Length (ft)				300	1000	350
Base Capacity (vph)		1197	1146	1078	753	737
Starvation Cap Reductn		0	0	0	0	0
Spillback Cap Reductn		0	0	0	0	0
Storage Cap Reductn		0	0	0	0	0
Reduced v/c Ratio		0.47	0.30	0.25	0.42	0.15

Intersection Summary

Area Type: Other
Cycle Length: 60
Actuated Cycle Length: 46.2
Natural Cycle: 60
Control Type: Actuated-Uncoordinated
Maximum v/c Ratio: 0.69
Intersection Signal Delay: 11.3
Intersection Capacity Utilization 67.4%
Analysis Period (min) 15

Intersection LOS: B
ICU Level of Service C

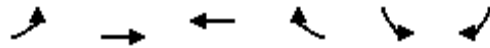
Splits and Phases: 1: LUCAS & COUNTRY CLUB



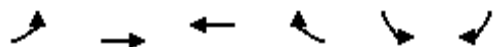
Lanes, Volumes, Timings
#1 - Country Club & Lucas

C&P ENGINEERING

5/23/2011



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Volume (vph)	200	346	738	562	278	269
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0			300	1000	350
Storage Lanes	0			1	1	1
Taper Length (ft)	25			25	25	25
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt				0.850		0.850
Flt Protected		0.982			0.950	
Satd. Flow (prot)	0	1829	1863	1583	1770	1583
Flt Permitted		0.428			0.950	
Satd. Flow (perm)	0	797	1863	1583	1770	1583
Right Turn on Red				Yes		Yes
Satd. Flow (RTOR)				624		299
Link Speed (mph)		50	50		50	
Link Distance (ft)		925	900		702	
Travel Time (s)		12.6	12.3		9.6	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90
Adj. Flow (vph)	222	384	820	624	309	299
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	606	820	624	309	299
Turn Type	pm+pt			Perm		Perm
Protected Phases	7	4	8		6	
Permitted Phases	4			8		6
Detector Phase	7	4	8	8	6	6
Switch Phase						
Minimum Initial (s)	4.0	4.0	4.0	4.0	4.0	4.0
Minimum Split (s)	15.0	20.0	20.0	20.0	20.0	20.0
Total Split (s)	15.0	68.0	53.0	53.0	22.0	22.0
Total Split (%)	16.7%	75.6%	58.9%	58.9%	24.4%	24.4%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	0.5	0.5	0.5	0.5	0.5	0.5
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0
Lead/Lag	Lead		Lag	Lag		
Lead-Lag Optimize?	Yes		Yes	Yes		
Recall Mode	None	None	None	None	None	None
Act Effect Green (s)		64.0	64.0	64.0	17.4	17.4
Actuated g/C Ratio		0.72	0.72	0.72	0.19	0.19
v/c Ratio		1.06	0.62	0.48	0.90	0.54
Control Delay		72.1	9.1	1.7	64.8	8.0
Queue Delay		0.0	0.0	0.0	0.0	0.0
Total Delay		72.1	9.1	1.7	64.8	8.0
LOS		E	A	A	E	A
Approach Delay		72.1	5.9		36.9	
Approach LOS		E	A		D	
Stops (vph)		393	354	19	244	34
Fuel Used(gal)		17	11	4	9	2
CO Emissions (g/hr)		1205	769	258	605	151



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
NOx Emissions (g/hr)		234	150	50	118	29
VOC Emissions (g/hr)		279	178	60	140	35
Dilemma Vehicles (#)		27	34	0	0	0
Queue Length 50th (ft)		~386	204	0	172	0
Queue Length 95th (ft)		#589	304	27	#318	66
Internal Link Dist (ft)		845	820		622	
Turn Bay Length (ft)				300	1000	350
Base Capacity (vph)		571	1333	1310	356	558
Starvation Cap Reductn		0	0	0	0	0
Spillback Cap Reductn		0	0	0	0	0
Storage Cap Reductn		0	0	0	0	0
Reduced v/c Ratio		1.06	0.62	0.48	0.87	0.54

Intersection Summary

Area Type: Other

Cycle Length: 90

Actuated Cycle Length: 89.4

Natural Cycle: 90

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 1.06

Intersection Signal Delay: 28.1

Intersection LOS: C

Intersection Capacity Utilization 93.5%

ICU Level of Service F

Analysis Period (min) 15

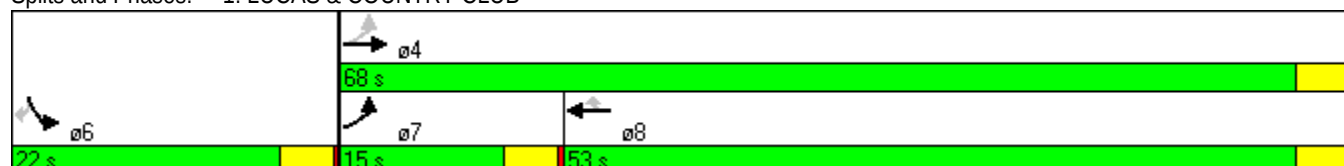
~ Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

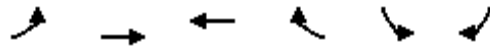
Splits and Phases: 1: LUCAS & COUNTRY CLUB



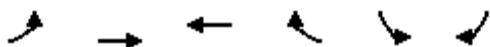
Lanes, Volumes, Timings
#1 - Country Club & Lucas

C&P ENGINEERING

5/23/2011



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Volume (vph)	151	448	347	260	304	129
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0			300	1000	350
Storage Lanes	0			1	1	1
Taper Length (ft)	25			25	25	25
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt				0.850		0.850
Flt Protected		0.988			0.950	
Satd. Flow (prot)	0	1840	1863	1583	1770	1583
Flt Permitted		0.803			0.950	
Satd. Flow (perm)	0	1496	1863	1583	1770	1583
Right Turn on Red				Yes		Yes
Satd. Flow (RTOR)				299		148
Link Speed (mph)		50	50		50	
Link Distance (ft)		925	900		702	
Travel Time (s)		12.6	12.3		9.6	
Peak Hour Factor	0.87	0.87	0.87	0.87	0.87	0.87
Adj. Flow (vph)	174	515	399	299	349	148
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	689	399	299	349	148
Turn Type	pm+pt			Perm		Perm
Protected Phases	7	4	8		6	
Permitted Phases	4			8		6
Detector Phase	7	4	8	8	6	6
Switch Phase						
Minimum Initial (s)	4.0	4.0	4.0	4.0	4.0	4.0
Minimum Split (s)	15.0	20.0	20.0	20.0	20.0	20.0
Total Split (s)	15.0	40.0	25.0	25.0	20.0	20.0
Total Split (%)	25.0%	66.7%	41.7%	41.7%	33.3%	33.3%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	0.5	0.5	0.5	0.5	0.5	0.5
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0
Lead/Lag	Lead		Lag	Lag		
Lead-Lag Optimize?	Yes		Yes	Yes		
Recall Mode	None	None	None	None	None	None
Act Effect Green (s)		34.6	34.6	34.6	14.5	14.5
Actuated g/C Ratio		0.60	0.60	0.60	0.25	0.25
v/c Ratio		0.76	0.35	0.28	0.78	0.29
Control Delay		16.0	7.0	1.5	34.3	5.5
Queue Delay		0.0	0.0	0.0	0.0	0.0
Total Delay		16.0	7.0	1.5	34.3	5.5
LOS		B	A	A	C	A
Approach Delay		16.0	4.7		25.7	
Approach LOS		B	A		C	
Stops (vph)		408	158	17	257	23
Fuel Used(gal)		12	5	2	7	1
CO Emissions (g/hr)		820	343	128	519	75



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
NOx Emissions (g/hr)		160	67	25	101	15
VOC Emissions (g/hr)		190	79	30	120	17
Dilemma Vehicles (#)		50	24	0	0	0
Queue Length 50th (ft)		160	64	0	115	0
Queue Length 95th (ft)		275	103	21	#214	33
Internal Link Dist (ft)		845	820		622	
Turn Bay Length (ft)				300	1000	350
Base Capacity (vph)		950	1127	1076	500	553
Starvation Cap Reductn		0	0	0	0	0
Spillback Cap Reductn		0	0	0	0	0
Storage Cap Reductn		0	0	0	0	0
Reduced v/c Ratio		0.73	0.35	0.28	0.70	0.27

Intersection Summary

Area Type: Other

Cycle Length: 60

Actuated Cycle Length: 57.2

Natural Cycle: 60

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.78

Intersection Signal Delay: 14.4

Intersection LOS: B

Intersection Capacity Utilization 77.0%

ICU Level of Service D

Analysis Period (min) 15

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

Splits and Phases: 1: LUCAS & COUNTRY CLUB



						
Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Volume (vph)	185	361	501	29	86	193
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0	0		40	0	
Storage Lanes	1	0		1	0	
Taper Length (ft)	25	25		25	25	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt	0.911			0.850		
Flt Protected	0.983					0.985
Satd. Flow (prot)	1668	0	1863	1583	0	1835
Flt Permitted	0.983					0.666
Satd. Flow (perm)	1668	0	1863	1583	0	1241
Right Turn on Red		Yes		Yes		
Satd. Flow (RTOR)	180			14		
Link Speed (mph)	50		50			50
Link Distance (ft)	808		600			538
Travel Time (s)	11.0		8.2			7.3
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93
Adj. Flow (vph)	199	388	539	31	92	208
Shared Lane Traffic (%)						
Lane Group Flow (vph)	587	0	539	31	0	300
Turn Type				Perm	pm+pt	
Protected Phases	8		2		1	6
Permitted Phases				2	6	
Detector Phase	8		2	2	1	6
Switch Phase						
Minimum Initial (s)	4.0		4.0	4.0	4.0	4.0
Minimum Split (s)	20.0		20.0	20.0	10.0	20.0
Total Split (s)	25.0	0.0	25.0	25.0	10.0	35.0
Total Split (%)	41.7%	0.0%	41.7%	41.7%	16.7%	58.3%
Yellow Time (s)	3.5		3.5	3.5	3.5	3.5
All-Red Time (s)	0.5		0.5	0.5	0.5	0.5
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0
Lead/Lag			Lag	Lag	Lead	
Lead-Lag Optimize?			Yes	Yes	Yes	
Recall Mode	None		None	None	None	None
Act Effect Green (s)	17.4		21.0	21.0		21.0
Actuated g/C Ratio	0.37		0.45	0.45		0.45
v/c Ratio	0.80		0.65	0.04		0.54
Control Delay	21.2		14.4	5.7		13.9
Queue Delay	0.0		0.0	0.0		0.0
Total Delay	21.2		14.4	5.7		13.9
LOS	C		B	A		B
Approach Delay	21.2		13.9			13.9
Approach LOS	C		B			B
Stops (vph)	303		342	12		179
Fuel Used(gal)	10		9	0		4
CO Emissions (g/hr)	685		603	23		314



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
NOx Emissions (g/hr)	133		117	4		61
VOC Emissions (g/hr)	159		140	5		73
Dilemma Vehicles (#)	0		43	0		24
Queue Length 50th (ft)	91		114	3		59
Queue Length 95th (ft)	#309		202	13		121
Internal Link Dist (ft)	728		520			458
Turn Bay Length (ft)				40		
Base Capacity (vph)	892		1003	859		864
Starvation Cap Reductn	0		0	0		0
Spillback Cap Reductn	0		0	0		0
Storage Cap Reductn	0		0	0		0
Reduced v/c Ratio	0.66		0.54	0.04		0.35

Intersection Summary

Area Type: Other

Cycle Length: 60

Actuated Cycle Length: 47

Natural Cycle: 60

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.80

Intersection Signal Delay: 16.8

Intersection LOS: B

Intersection Capacity Utilization 83.7%

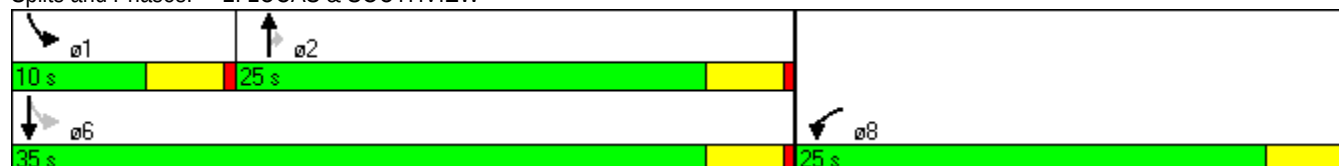
ICU Level of Service E

Analysis Period (min) 15

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

Splits and Phases: 2: LUCAS & SOUTHVIEW



Lanes, Volumes, Timings
#2 - Southview and Lucas

C&P Engineering
5/23/2011

						
Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Volume (vph)	51	109	188	94	204	251
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0	0		40	0	
Storage Lanes	1	0		1	0	
Taper Length (ft)	25	25		25	25	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt	0.908			0.850		
Flt Protected	0.984					0.978
Satd. Flow (prot)	1664	0	1863	1583	0	1822
Flt Permitted	0.984					0.768
Satd. Flow (perm)	1664	0	1863	1583	0	1431
Right Turn on Red		Yes		Yes		
Satd. Flow (RTOR)	117			101		
Link Speed (mph)	50		50			50
Link Distance (ft)	808		600			538
Travel Time (s)	11.0		8.2			7.3
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93
Adj. Flow (vph)	55	117	202	101	219	270
Shared Lane Traffic (%)						
Lane Group Flow (vph)	172	0	202	101	0	489
Turn Type				Perm	pm+pt	
Protected Phases	8		2		1	6
Permitted Phases				2	6	
Detector Phase	8		2	2	1	6
Switch Phase						
Minimum Initial (s)	4.0		4.0	4.0	4.0	4.0
Minimum Split (s)	20.0		20.0	20.0	15.0	20.0
Total Split (s)	20.0	0.0	20.0	20.0	15.0	35.0
Total Split (%)	36.4%	0.0%	36.4%	36.4%	27.3%	63.6%
Yellow Time (s)	3.5		3.5	3.5	3.5	3.5
All-Red Time (s)	0.5		0.5	0.5	0.5	0.5
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0
Lead/Lag			Lag	Lag	Lead	
Lead-Lag Optimize?			Yes	Yes	Yes	
Recall Mode	None		None	None	None	None
Act Effect Green (s)	9.1		18.7	18.7		20.2
Actuated g/C Ratio	0.28		0.57	0.57		0.62
v/c Ratio	0.32		0.19	0.11		0.55
Control Delay	8.3		4.3	1.4		7.9
Queue Delay	0.0		0.0	0.0		0.0
Total Delay	8.3		4.3	1.4		7.9
LOS	A		A	A		A
Approach Delay	8.3		3.4			7.9
Approach LOS	A		A			A
Stops (vph)	56		70	10		237
Fuel Used(gal)	2		2	1		6
CO Emissions (g/hr)	136		137	38		414

						
Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
NOx Emissions (g/hr)	27		27	7		81
VOC Emissions (g/hr)	32		32	9		96
Dilemma Vehicles (#)	0		21	0		64
Queue Length 50th (ft)	8		14	0		45
Queue Length 95th (ft)	53		41	12		133
Internal Link Dist (ft)	728		520			458
Turn Bay Length (ft)				40		
Base Capacity (vph)	972		1253	1098		1225
Starvation Cap Reductn	0		0	0		0
Spillback Cap Reductn	0		0	0		0
Storage Cap Reductn	0		0	0		0
Reduced v/c Ratio	0.18		0.16	0.09		0.40

Intersection Summary

Area Type: Other

Cycle Length: 55

Actuated Cycle Length: 32.7

Natural Cycle: 55

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.55

Intersection Signal Delay: 6.6

Intersection LOS: A

Intersection Capacity Utilization 53.9%

ICU Level of Service A

Analysis Period (min) 15

Splits and Phases: 2: LUCAS & SOUTHVIEW



						
Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Volume (vph)	189	401	565	30	113	235
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0	0		40	0	
Storage Lanes	1	0		1	0	
Taper Length (ft)	25	25		25	25	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt	0.908			0.850		
Flt Protected	0.984					0.984
Satd. Flow (prot)	1664	0	1863	1583	0	1833
Flt Permitted	0.984					0.561
Satd. Flow (perm)	1664	0	1863	1583	0	1045
Right Turn on Red		Yes		Yes		
Satd. Flow (RTOR)	156			11		
Link Speed (mph)	50		50			50
Link Distance (ft)	808		600			538
Travel Time (s)	11.0		8.2			7.3
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93
Adj. Flow (vph)	203	431	608	32	122	253
Shared Lane Traffic (%)						
Lane Group Flow (vph)	634	0	608	32	0	375
Turn Type				Perm	pm+pt	
Protected Phases	8		2		1	6
Permitted Phases				2	6	
Detector Phase	8		2	2	1	6
Switch Phase						
Minimum Initial (s)	4.0		4.0	4.0	4.0	4.0
Minimum Split (s)	20.0		20.0	20.0	12.0	20.0
Total Split (s)	30.0	0.0	33.0	33.0	12.0	45.0
Total Split (%)	40.0%	0.0%	44.0%	44.0%	16.0%	60.0%
Yellow Time (s)	3.5		3.5	3.5	3.5	3.5
All-Red Time (s)	0.5		0.5	0.5	0.5	0.5
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0
Lead/Lag			Lag	Lag	Lead	
Lead-Lag Optimize?			Yes	Yes	Yes	
Recall Mode	None		None	None	None	None
Act Effect Green (s)	24.5		37.4	37.4		37.4
Actuated g/C Ratio	0.35		0.53	0.53		0.53
v/c Ratio	0.93		0.61	0.04		0.67
Control Delay	40.1		14.6	6.1		19.4
Queue Delay	0.0		0.0	0.0		0.0
Total Delay	40.1		14.6	6.1		19.4
LOS	D		B	A		B
Approach Delay	40.1		14.2			19.4
Approach LOS	D		B			B
Stops (vph)	384		361	11		245
Fuel Used(gal)	14		9	0		6
CO Emissions (g/hr)	960		655	22		443



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
NOx Emissions (g/hr)	187		128	4		86
VOC Emissions (g/hr)	223		152	5		103
Dilemma Vehicles (#)	0		32	0		24
Queue Length 50th (ft)	220		175	4		114
Queue Length 95th (ft)	#434		273	15		214
Internal Link Dist (ft)	728		520			458
Turn Bay Length (ft)				40		
Base Capacity (vph)	729		1028	878		626
Starvation Cap Reductn	0		0	0		0
Spillback Cap Reductn	0		0	0		0
Storage Cap Reductn	0		0	0		0
Reduced v/c Ratio	0.87		0.59	0.04		0.60

Intersection Summary

Area Type: Other

Cycle Length: 75

Actuated Cycle Length: 70.1

Natural Cycle: 75

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.93

Intersection Signal Delay: 25.4

Intersection LOS: C

Intersection Capacity Utilization 93.5%

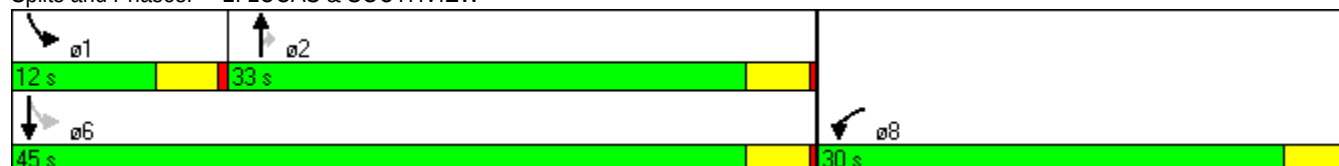
ICU Level of Service F

Analysis Period (min) 15

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

Splits and Phases: 2: LUCAS & SOUTHVIEW



Lanes, Volumes, Timings
#2 - Southview and Lucas

C&P Engineering
5/23/2011

						
Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Volume (vph)	52	127	220	96	230	300
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0	0		40	0	
Storage Lanes	1	0		1	0	
Taper Length (ft)	25	25		25	25	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt	0.904			0.850		
Flt Protected	0.986					0.979
Satd. Flow (prot)	1660	0	1863	1583	0	1824
Flt Permitted	0.986					0.759
Satd. Flow (perm)	1660	0	1863	1583	0	1414
Right Turn on Red		Yes		Yes		
Satd. Flow (RTOR)	137			103		
Link Speed (mph)	50		50			50
Link Distance (ft)	808		600			538
Travel Time (s)	11.0		8.2			7.3
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93
Adj. Flow (vph)	56	137	237	103	247	323
Shared Lane Traffic (%)						
Lane Group Flow (vph)	193	0	237	103	0	570
Turn Type				Perm	pm+pt	
Protected Phases	8		2		1	6
Permitted Phases				2	6	
Detector Phase	8		2	2	1	6
Switch Phase						
Minimum Initial (s)	4.0		4.0	4.0	4.0	4.0
Minimum Split (s)	20.0		20.0	20.0	15.0	20.0
Total Split (s)	20.0	0.0	25.0	25.0	15.0	40.0
Total Split (%)	33.3%	0.0%	41.7%	41.7%	25.0%	66.7%
Yellow Time (s)	3.5		3.5	3.5	3.5	3.5
All-Red Time (s)	0.5		0.5	0.5	0.5	0.5
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0
Lead/Lag			Lag	Lag	Lead	
Lead-Lag Optimize?			Yes	Yes	Yes	
Recall Mode	None		None	None	None	None
Act Effect Green (s)	9.9		23.7	23.7		26.2
Actuated g/C Ratio	0.26		0.62	0.62		0.68
v/c Ratio	0.36		0.21	0.10		0.59
Control Delay	9.5		4.0	1.2		8.1
Queue Delay	0.0		0.0	0.0		0.0
Total Delay	9.5		4.0	1.2		8.1
LOS	A		A	A		A
Approach Delay	9.5		3.2			8.1
Approach LOS	A		A			A
Stops (vph)	59		73	8		271
Fuel Used(gal)	2		2	1		7
CO Emissions (g/hr)	152		149	36		478

						
Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
NOx Emissions (g/hr)	30		29	7		93
VOC Emissions (g/hr)	35		35	8		111
Dilemma Vehicles (#)	0		22	0		70
Queue Length 50th (ft)	11		17	0		61
Queue Length 95th (ft)	60		50	12		181
Internal Link Dist (ft)	728		520			458
Turn Bay Length (ft)				40		
Base Capacity (vph)	895		1348	1174		1187
Starvation Cap Reductn	0		0	0		0
Spillback Cap Reductn	0		0	0		0
Storage Cap Reductn	0		0	0		0
Reduced v/c Ratio	0.22		0.18	0.09		0.48

Intersection Summary

Area Type: Other
 Cycle Length: 60
 Actuated Cycle Length: 38.3
 Natural Cycle: 60
 Control Type: Actuated-Uncoordinated
 Maximum v/c Ratio: 0.59
 Intersection Signal Delay: 6.8
 Intersection LOS: A
 Intersection Capacity Utilization 60.8%
 ICU Level of Service B
 Analysis Period (min) 15

Splits and Phases: 2: LUCAS & SOUTHVIEW



Lanes, Volumes, Timings
#2 - Southview and Lucas

C&P Engineering
5/23/2011

						
Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Volume (vph)	200	430	611	31	122	255
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0	0		40	0	
Storage Lanes	1	0		1	0	
Taper Length (ft)	25	25		25	25	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt	0.908			0.850		
Flt Protected	0.984					0.984
Satd. Flow (prot)	1664	0	1863	1583	0	1833
Flt Permitted	0.984					0.512
Satd. Flow (perm)	1664	0	1863	1583	0	954
Right Turn on Red		Yes		Yes		
Satd. Flow (RTOR)	146			10		
Link Speed (mph)	50		50			50
Link Distance (ft)	808		600			538
Travel Time (s)	11.0		8.2			7.3
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93
Adj. Flow (vph)	215	462	657	33	131	274
Shared Lane Traffic (%)						
Lane Group Flow (vph)	677	0	657	33	0	405
Turn Type				Perm	pm+pt	
Protected Phases	8		2		1	6
Permitted Phases				2	6	
Detector Phase	8		2	2	1	6
Switch Phase						
Minimum Initial (s)	4.0		4.0	4.0	4.0	4.0
Minimum Split (s)	20.0		20.0	20.0	12.0	20.0
Total Split (s)	31.0	0.0	37.0	37.0	12.0	49.0
Total Split (%)	38.8%	0.0%	46.3%	46.3%	15.0%	61.3%
Yellow Time (s)	3.5		3.5	3.5	3.5	3.5
All-Red Time (s)	0.5		0.5	0.5	0.5	0.5
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0
Lead/Lag			Lag	Lag	Lead	
Lead-Lag Optimize?			Yes	Yes	Yes	
Recall Mode	None		None	None	None	None
Act Effect Green (s)	27.0		45.0	45.0		45.0
Actuated g/C Ratio	0.34		0.56	0.56		0.56
v/c Ratio	1.03		0.63	0.04		0.75
Control Delay	65.8		15.2	6.3		24.7
Queue Delay	0.0		0.0	0.0		0.0
Total Delay	65.8		15.2	6.3		24.7
LOS	E		B	A		C
Approach Delay	65.8		14.8			24.7
Approach LOS	E		B			C
Stops (vph)	432		396	11		278
Fuel Used(gal)	18		10	0		7
CO Emissions (g/hr)	1279		720	23		521



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
NOx Emissions (g/hr)	249		140	4		101
VOC Emissions (g/hr)	297		167	5		121
Dilemma Vehicles (#)	0		31	0		23
Queue Length 50th (ft)	~314		205	5		142
Queue Length 95th (ft)	#521		313	16		#312
Internal Link Dist (ft)	728		520			458
Turn Bay Length (ft)				40		
Base Capacity (vph)	658		1048	895		537
Starvation Cap Reductn	0		0	0		0
Spillback Cap Reductn	0		0	0		0
Storage Cap Reductn	0		0	0		0
Reduced v/c Ratio	1.03		0.63	0.04		0.75

Intersection Summary

Area Type: Other

Cycle Length: 80

Actuated Cycle Length: 80

Natural Cycle: 80

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 1.03

Intersection Signal Delay: 36.5

Intersection LOS: D

Intersection Capacity Utilization 99.9%

ICU Level of Service F

Analysis Period (min) 15

~ Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

Splits and Phases: 2: LUCAS & SOUTHVIEW



Lanes, Volumes, Timings
#2 - Southview and Lucas

C&P Engineering
5/23/2011

						
Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Volume (vph)	55	136	238	102	248	330
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0	0		40	0	
Storage Lanes	1	0		1	0	
Taper Length (ft)	25	25		25	25	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt	0.904			0.850		
Flt Protected	0.986					0.979
Satd. Flow (prot)	1660	0	1863	1583	0	1824
Flt Permitted	0.986					0.752
Satd. Flow (perm)	1660	0	1863	1583	0	1401
Right Turn on Red		Yes		Yes		
Satd. Flow (RTOR)	146			103		
Link Speed (mph)	50		50			50
Link Distance (ft)	808		600			538
Travel Time (s)	11.0		8.2			7.3
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93
Adj. Flow (vph)	59	146	256	110	267	355
Shared Lane Traffic (%)						
Lane Group Flow (vph)	205	0	256	110	0	622
Turn Type				Perm	pm+pt	
Protected Phases	8		2		1	6
Permitted Phases				2	6	
Detector Phase	8		2	2	1	6
Switch Phase						
Minimum Initial (s)	4.0		4.0	4.0	4.0	4.0
Minimum Split (s)	20.0		20.0	20.0	15.0	20.0
Total Split (s)	20.0	0.0	25.0	25.0	15.0	40.0
Total Split (%)	33.3%	0.0%	41.7%	41.7%	25.0%	66.7%
Yellow Time (s)	3.5		3.5	3.5	3.5	3.5
All-Red Time (s)	0.5		0.5	0.5	0.5	0.5
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0
Lead/Lag			Lag	Lag	Lead	
Lead-Lag Optimize?			Yes	Yes	Yes	
Recall Mode	None		None	None	None	None
Act Effect Green (s)	8.3		32.4	32.4		32.4
Actuated g/C Ratio	0.19		0.73	0.73		0.73
v/c Ratio	0.48		0.19	0.09		0.61
Control Delay	11.4		3.7	1.3		8.4
Queue Delay	0.0		0.0	0.0		0.0
Total Delay	11.4		3.7	1.3		8.4
LOS	B		A	A		A
Approach Delay	11.4		3.0			8.4
Approach LOS	B		A			A
Stops (vph)	63		74	10		304
Fuel Used(gal)	2		2	1		8
CO Emissions (g/hr)	167		155	40		533

						
Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
NOx Emissions (g/hr)	32		30	8		104
VOC Emissions (g/hr)	39		36	9		124
Dilemma Vehicles (#)	0		18	0		49
Queue Length 50th (ft)	16		19	1		73
Queue Length 95th (ft)	63		55	13		222
Internal Link Dist (ft)	728		520			458
Turn Bay Length (ft)				40		
Base Capacity (vph)	772		1363	1186		1106
Starvation Cap Reductn	0		0	0		0
Spillback Cap Reductn	0		0	0		0
Storage Cap Reductn	0		0	0		0
Reduced v/c Ratio	0.27		0.19	0.09		0.56

Intersection Summary

Area Type: Other
Cycle Length: 60
Actuated Cycle Length: 44.2
Natural Cycle: 60
Control Type: Actuated-Uncoordinated
Maximum v/c Ratio: 0.61
Intersection Signal Delay: 7.3
Intersection Capacity Utilization 65.0%
Analysis Period (min) 15

Intersection LOS: A
ICU Level of Service C

Splits and Phases: 2: LUCAS & SOUTHVIEW



Lanes, Volumes, Timings
#2 - Southview and Lucas

C&P Engineering
5/23/2011

						
Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Volume (vph)	226	500	701	35	152	299
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0	0		40	0	
Storage Lanes	1	0		1	0	
Taper Length (ft)	25	25		25	25	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt	0.907			0.850		
Flt Protected	0.985					0.983
Satd. Flow (prot)	1664	0	1863	1583	0	1831
Flt Permitted	0.985					0.410
Satd. Flow (perm)	1664	0	1863	1583	0	764
Right Turn on Red		Yes		Yes		
Satd. Flow (RTOR)	145			10		
Link Speed (mph)	50		50			50
Link Distance (ft)	808		600			538
Travel Time (s)	11.0		8.2			7.3
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93
Adj. Flow (vph)	243	538	754	38	163	322
Shared Lane Traffic (%)						
Lane Group Flow (vph)	781	0	754	38	0	485
Turn Type				Perm	pm+pt	
Protected Phases	8		2		1	6
Permitted Phases				2	6	
Detector Phase	8		2	2	1	6
Switch Phase						
Minimum Initial (s)	4.0		4.0	4.0	4.0	4.0
Minimum Split (s)	20.0		20.0	20.0	12.0	20.0
Total Split (s)	29.0	0.0	38.0	38.0	13.0	51.0
Total Split (%)	36.3%	0.0%	47.5%	47.5%	16.3%	63.8%
Yellow Time (s)	3.5		3.5	3.5	3.5	3.5
All-Red Time (s)	0.5		0.5	0.5	0.5	0.5
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0
Lead/Lag			Lag	Lag	Lead	
Lead-Lag Optimize?			Yes	Yes	Yes	
Recall Mode	None		None	None	None	None
Act Effect Green (s)	25.0		47.0	47.0		47.0
Actuated g/C Ratio	0.31		0.59	0.59		0.59
v/c Ratio	1.26		0.69	0.04		1.08
Control Delay	153.0		15.6	5.8		86.3
Queue Delay	0.0		0.0	0.0		0.0
Total Delay	153.0		15.6	5.8		86.3
LOS	F		B	A		F
Approach Delay	153.0		15.1			86.3
Approach LOS	F		B			F
Stops (vph)	485		469	11		340
Fuel Used(gal)	34		12	0		15
CO Emissions (g/hr)	2361		845	24		1026



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
NOx Emissions (g/hr)	459		164	5		200
VOC Emissions (g/hr)	547		196	6		238
Dilemma Vehicles (#)	0		36	0		24
Queue Length 50th (ft)	~447		238	5		~275
Queue Length 95th (ft)	#662		365	17		#455
Internal Link Dist (ft)	728		520			458
Turn Bay Length (ft)				40		
Base Capacity (vph)	620		1095	934		449
Starvation Cap Reductn	0		0	0		0
Spillback Cap Reductn	0		0	0		0
Storage Cap Reductn	0		0	0		0
Reduced v/c Ratio	1.26		0.69	0.04		1.08

Intersection Summary

Area Type: Other

Cycle Length: 80

Actuated Cycle Length: 80

Natural Cycle: 80

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 1.26

Intersection Signal Delay: 84.2

Intersection LOS: F

Intersection Capacity Utilization 114.3%

ICU Level of Service H

Analysis Period (min) 15

~ Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

Splits and Phases: 2: LUCAS & SOUTHVIEW



Lanes, Volumes, Timings
#2 - Southview and Lucas

C&P Engineering
5/23/2011

						
Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Volume (vph)	62	162	275	115	289	377
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0	0		40	0	
Storage Lanes	1	0		1	0	
Taper Length (ft)	25	25		25	25	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt	0.903			0.850		
Flt Protected	0.986					0.979
Satd. Flow (prot)	1659	0	1863	1583	0	1824
Flt Permitted	0.986					0.725
Satd. Flow (perm)	1659	0	1863	1583	0	1350
Right Turn on Red		Yes		Yes		
Satd. Flow (RTOR)	173			101		
Link Speed (mph)	50		50			50
Link Distance (ft)	808		600			538
Travel Time (s)	11.0		8.2			7.3
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93
Adj. Flow (vph)	67	174	296	124	311	405
Shared Lane Traffic (%)						
Lane Group Flow (vph)	241	0	296	124	0	716
Turn Type				Perm	pm+pt	
Protected Phases	8		2		1	6
Permitted Phases				2	6	
Detector Phase	8		2	2	1	6
Switch Phase						
Minimum Initial (s)	4.0		4.0	4.0	4.0	4.0
Minimum Split (s)	20.0		20.0	20.0	15.0	20.0
Total Split (s)	20.0	0.0	35.0	35.0	15.0	50.0
Total Split (%)	28.6%	0.0%	50.0%	50.0%	21.4%	71.4%
Yellow Time (s)	3.5		3.5	3.5	3.5	3.5
All-Red Time (s)	0.5		0.5	0.5	0.5	0.5
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0
Lead/Lag			Lag	Lag	Lead	
Lead-Lag Optimize?			Yes	Yes	Yes	
Recall Mode	None		None	None	None	None
Act Effect Green (s)	8.8		39.7	39.7		39.7
Actuated g/C Ratio	0.15		0.70	0.70		0.70
v/c Ratio	0.60		0.23	0.11		0.76
Control Delay	15.2		3.9	1.5		13.2
Queue Delay	0.0		0.0	0.0		0.0
Total Delay	15.2		3.9	1.5		13.2
LOS	B		A	A		B
Approach Delay	15.2		3.2			13.2
Approach LOS	B		A			B
Stops (vph)	70		82	11		377
Fuel Used(gal)	3		3	1		10
CO Emissions (g/hr)	204		176	45		689

						
Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
NOx Emissions (g/hr)	40		34	9		134
VOC Emissions (g/hr)	47		41	10		160
Dilemma Vehicles (#)	0		19	0		53
Queue Length 50th (ft)	24		25	2		108
Queue Length 95th (ft)	82		69	17		#432
Internal Link Dist (ft)	728		520			458
Turn Bay Length (ft)				40		
Base Capacity (vph)	610		1367	1188		1085
Starvation Cap Reductn	0		0	0		0
Spillback Cap Reductn	0		0	0		0
Storage Cap Reductn	0		0	0		0
Reduced v/c Ratio	0.40		0.22	0.10		0.66

Intersection Summary

Area Type: Other
 Cycle Length: 70
 Actuated Cycle Length: 56.9
 Natural Cycle: 70
 Control Type: Actuated-Uncoordinated
 Maximum v/c Ratio: 0.76
 Intersection Signal Delay: 10.5 Intersection LOS: B
 Intersection Capacity Utilization 73.7% ICU Level of Service D
 Analysis Period (min) 15
 # 95th percentile volume exceeds capacity, queue may be longer.
 Queue shown is maximum after two cycles.

Splits and Phases: 2: LUCAS & SOUTHVIEW





City of Lucas

City Council Agenda Request

December 5, 2024

Requester: Development Services Director Joe Hilbourn

Agenda Item

Conduct a public hearing and consider amendments to the City of Lucas Code of Ordinances, Chapter 14 titled “Zoning”, 14.03.472 titles “Building Regulations”, (i) Impervious coverage and Article 14.04 titled “Supplementary Regulations”, Division 8 titled “Accessory Buildings, Structures and Uses”.

- A. Presentation by Development Services Director Joe Hilbourn
- B. Conduct Public Hearing
- C. Take action on the request

Background Information

On December 7, 2023, the City Council agreed to form a Council Subcommittee consisting of Mayor Jim Olk, Councilmember Dusty Kuykendall, and Councilmember Tim Johnson to further review Chapter 14 and make additional proposed changes. On January 18, 2024, the Council Subcommittee met with Development Services Director Joe Hilbourn and Assistant City Manager Kent Souriyasak to discuss new edits and agreed to move forward with final recommended changes to Chapter 14 excluding accessory buildings which will be reviewed separately.

Prior to Mayor Olk's departure the subcommittee for accessory buildings met and had some discussions regarding ADU's. On October 10th staff brought forward an attempt to replicate what we had discussed. I also tried to address the pool house/art studio concern.

Staff received a request from a citizen to take a fresh look at chapter 14 Supplementary regulations division 7 lighting.

Proposed amendments discussed at the October 10th Planning and Zoning Commission meeting are attached as a supporting document.

Attachments/Supporting Documentation

1. Public Notice
2. Proposed Amendments to Chapter 14



City of Lucas

City Council Agenda Request

December 5, 2024

Budget/Financial Impact

NA

Recommendation

Motion

I make a motion to approve/deny amendments to the City of Lucas Code of Ordinances, Chapter 14 titled “Zoning”, 14.03.472 titled “Building Regulations”, (i) Impervious coverage and Article 14.04 titled “Supplementary Regulations”, Division 8 titled “Accessory Buildings, Structures and Uses”.



NOTICE OF PUBLIC HEARING

NOTICE IS HEREBY GIVEN, that the Planning & Zoning Commission of the City of Lucas, Texas will conduct a public hearing on November 14, 2024, at 6:30 p.m., and City Council will conduct a second public hearing on Thursday, December 5, 2024, at 6:30 p.m. at Lucas City Hall, 665 Country Club Road, Lucas, Texas to consider amendments to the City of Lucas Code of Ordinances, Chapter 14 titled “Zoning”, 14.03.472 titles “Building Regulations”, (i) Impervious coverage and Article 14.04 titled “Supplementary Regulations”, Division 8 titled “Accessory Buildings, Structures and Uses”.

Those wishing to speak FOR or AGAINST the above item are invited to attend. If you are unable to attend and have comments you may send them to City of Lucas, Attention: City Secretary, Toshia Kimball, 665 Country Club Road, Lucas, Texas 75002, email tkimball@lucastexas.us and it will be presented at the hearing. If you have any questions about the above hearing, you may contact Development Services Director Joe Hilbourn at jhilbourn@lucastexas.us.

Industrial zoning district change:

§ 14.03.472 Building regulations.

- (a)** All drive-through, drive-in and drive-up businesses shall require a specific use permit.
- (b)** All mechanical equipment shall be screened from public view either by landscaping materials or materials that blend with the building.
- (c)** Refuse collection areas shall be screened from public view.
- (d)** Parking and drives to be weather-impervious surface. Parking and fire lanes shall be a minimum of three thousand five hundred pounds per square inch (3,500 psi) concrete of six inches (6") thick with six inches (6") of flex base material compacted to ninety-five percent (95%).
- (e)** Outside storage as allowed by specific use permit.
- (f)** Loading docks to be at rear or side of building and shall be screened from public view or residential zoning districts.
- (g)** A specific use permit shall be required when the total square footage of the principal building and/or any accessory buildings exceeds fifty thousand square feet (50,000 sq. ft.).
- (h)** Replacement of buffering/screening/fencing: all existing buffering, screening, and fencing that is replaced is required to be replaced with materials required by code for new construction. If there is no material listed for the application then the replacement will match existing material for buffering, screening, or fencing, of the item being replaced
- (i)** Impervious coverage. The maximum impervious coverage shall not exceed sixty-five percent (65%) of the total lot area.

Accessory Building definition change:

Accessory buildings and structures.

Buildings or structures located on the same lot as a dwelling or other principal building, the use of which is subordinate in area, volume, and extent as well as incidental in use to the use of the dwelling or other principal building. An accessory building or use is:

- (1) Subordinate to and serves a principal building or principal use;
- (2) Subordinate in area, extent, or purpose to the principal building or principal use served.
- (3) Contributes to the comfort, convenience, and necessity of occupants of the principal building or principal use served; and
- (4) Located on the same building lot as the principal use served.
- (5) "Accessory" when used in the text shall have the same meaning as accessory use.

§ 14.04.301 Purpose.

The purpose and intent of the accessory building, accessory structures and accessory use regulations is to:

- (1) Maintain neighborhood and community integrity and preserve the existing character of neighborhoods by encouraging compatible land uses.
- (2) Provide the residents of the city the opportunity to use their property to enhance the quality of life and/or fulfill personal objectives as long as the use of the property is compatible with the land uses or character of the neighborhood.
- (3) Assure that public and private services such as streets, water, stormwater drainage, and electrical systems are not burdened by accessory uses to the extent that the accessory usage exceeds that which is normally associated with the principal use of the property.

§ 14.04.302 Accessory buildings, structures, and uses permitted.

- (a) Accessory buildings and structures may be erected, maintained, and used for purposes which are clearly subordinate to the principal building, structure, or use permitted on the premises.
- (b) Accessory buildings, structures, and uses shall be so constructed, maintained, and utilized so that the use of the building, structure or equipment located therein does not produce excessive noise, vibration, concussion, dust, dirt, smoke, odors, noxious gases, heat, traffic, glare from artificial illumination or from reflection of light that may be offensive to persons of ordinary sensibilities that occupy surrounding properties.
- (c) The total square footage of the principal building or structure and any accessory buildings or structures shall not exceed the lesser of fifty thousand (50,000) square feet or thirty percent (30%) of the lot square footage without a specific use permit. Additionally, the total square footage of an accessory dwelling unit (ADU) shall not exceed six hundred (600) square feet without a specific use permit. A specific use permit for an ~~accessory dwelling unit (ADU)~~ in excess of six hundred (600) square feet may be ~~P~~permitted by the city council when such property owner can show the following:
 - (1) Does not contain or support a use inconsistent with the zoning district regulation applicable to the property;
 - (2) Use of structure does not cause traffic congestion;
 - (3) Does not support use by any person other than owner or occupant of the principal building, structure, or dwelling; and
 - (4) That size and mass of the structure is consistent with the surrounding uses.
- (d) Except as provided herein, no trailers, containers, commercial boxes or other similar prefabricated containers shall be used as accessory buildings or structures. Exceptions to this subsection (d) are as follows:

(1) Agriculture uses with five (5) acres or more may utilize trailers, containers, or commercial boxes for permanent storage located behind the principal building or structure and completely obscured from public view; or

(2) In industrial and commercial zoned districts, trailers, containers, or commercial boxes for temporary storage facilities may be used for a period not to exceed ninety (90) days total in any one calendar year. Such industrial or commercial temporary storage facilities shall be located behind the principal building or structure and completely obscured from public view. The director of development services may extend the allowable time in thirty (30) day increments up to a maximum of one hundred and eighty (180) days, provided the property owner provides just cause for the extension.

(e) Except in the agricultural use district (AO), accessory buildings shall be built after the principal building or structure is substantially complete. Accessory buildings used for agricultural purposes that may be built before the principal building or structure in AO districts:

(1) Include, but are not limited to: pole barns, livestock barns, riding arenas, implement storage facilities, and loafing sheds.

(2) Shall not contain area(s) designed or intended to be used for human habitation for living, sleeping, cooking and/or eating.

(f) Game/party room, art studio, or pool house may be a standalone structure, or attached but not interconnected to the principal building, structure, or dwelling. All areas associated with, or providing support to a Game/party room, art studio, or pool house shall be used in calculating the square footage of the Game/party room, art studio, or pool house. These areas include but are not limited to habitable spaces, closets, halls, corridors, bathrooms, porches, patios, storage rooms, covered vehicle storage areas, utility rooms, and similar spaces. Game/party room, art studio, or pool house shall comply with the following:

Commented [JH1]: Added or

Commented [JH2]: Changed added an N should be and

(1) In R-2, R-1.5, R-1, ED, and AO zoning districts, a maximum of six hundred (600) square feet. An additional nine hundred (900) square feet may be permitted with a specific use permit. Total area of ADU shall not exceed one thousand and five hundred (1,500) square feet.

§ 14.04.303 Exemptions.

The following accessory structures are exempt from this division:

(1) Retaining walls;

(2) Air-conditioning mechanical equipment;

(3) Uncovered flatwork (such as, but not limited to, patios, sidewalks, concrete pool decking and driveways);

(4) Playhouses less than one hundred and twenty-five (125) square feet without running water or electricity, playground equipment, tree forts, and similar structures located behind the front of the principal building or structure; and

(5) Temporary (less than seven (7) days) membrane structures (such as, but not limited to, tents and bounce houses).

§ 14.04.304 General accessory buildings and structures regulations.

In all residential **zoning** districts, accessory buildings and structures shall comply with the following standards except as may be otherwise specifically provided for in this code:

(1) Types of accessory buildings and structures.

(A) Attached accessory buildings and structures. Accessory buildings and structures that are physically attached to a principal building ~~or structure or located less than ten feet (10') from the principal building or structure~~ shall be considered attached accessory buildings or structures.

(B) Detached accessory buildings and structures. Accessory buildings and structures which are physically ~~located ten feet (10') or more~~ **detached** from a principal building ~~or structure~~ and a minimum of ten feet (10') behind the ~~required front setback line~~ **main structure** **principal building** shall be considered detached accessory buildings.

(2) Design.

(A) Attached accessory buildings and structures shall be designed to be architecturally compatible with the principal building, structure or dwelling and constructed of similar materials as the principal building.

(B) Detached accessory buildings shall be constructed of materials designed for construction and have a minimum life expectancy of at least twenty (20) years.

(C) Accessory buildings shall not have spaces for cooking, ~~eating~~, or sleeping areas except as provided in 14.04.304 (4)

(3) Setbacks.

(A) Accessory buildings:

(i) Front yard setback: Attached accessory buildings or structures shall meet the required setback of the principal building or structure. Detached accessory buildings or structures shall be **set back** a minimum of ten feet (10') behind the rear build line of the principal building, structure or dwelling. A specific use permit may be **permitted** to allow a detached accessory building or structure to be located in front of the principal building, structure or dwelling in AO and R-2 (Residential 2-acre) zoned districts and shall require a **minimum** three-hundred foot (300') front yard setback.

(ii) Rear yard setback: Accessory building and structures shall have a minimum setback of twenty feet (20').

(iii) Side yard setbacks: Accessory building and structures shall be twenty feet (20') unless the side yard is adjacent to a street. Side yards adjacent to a street shall meet the required side yard setbacks as the principal building or structure.

(iv) Where a build line is established on a plat, which is not consistent with this article, the build line that is the greater distance from the front property line shall be observed.

(v) No required parking shall be allowed within the required front yard setback.

(B) In-ground swimming pools, sports courts, tennis courts and similar uses shall maintain a minimum rear yard setback of ~~twenty-five feet (25')~~ **fifty feet (50')**, a minimum side yard setback of ~~twenty feet (20')~~ **twenty-five feet (25')**. ~~and if the An in-ground pool is located~~ in front of the principal building it shall maintain a ~~minimum~~ front yard setback of ~~a minimum of~~ three hundred feet (300'). In-ground swimming pool setbacks shall be measured from the inside wall of said pool.

(C) The inside wall of an above-ground swimming pool and any elevated decking associated with an ~~above-ground~~ swimming pool shall be located behind the principal building and shall maintain a minimum rear yard setback of fifty feet (50') and a minimum side yard setback of twenty-five feet (25').

(4) Accessory dwelling units (ADUs). ADUs may only be used and/or occupied by the owner/occupant of the principal building, structure, or dwelling unit, their family, invited guests and/or domestic staff. ~~An ADU may be a standalone structure, attached but not~~ **ADU is considered part of the principal building provided it is interconnected to or attached by a breezeway a minimum of twenty feet (20') wide and not greater than twenty-four feet (24') long. the principal building, structure, or dwelling, or be a part of a permitted accessory building.** **ADU's may be standalone structures, attached but not interconnected to the principal building, structure, or dwelling, or be part of a permitted accessory building.** All areas associated with, or providing support to an ADU shall be used in calculating the square footage of the ADU. These areas include but are not limited to habitable spaces, closets, halls, corridors, bathrooms, porches, patios, storage rooms, ~~and~~ covered vehicle storage areas, ~~toilet rooms, utility spaces, and similar areas.~~ The calculation of area associated with an ADU is not intended to include areas of accessory buildings that are isolated and/or delineated for other uses, including but not limited to areas used as a barn, workshop, game/party room, art studio, or pool house. ADUs shall comply with the following:

(A) General regulations for ADUs:

(i) Only one (1) ~~accessory dwelling unit~~ **ADU** may be constructed or maintained on a lot.

(ii) ADUs shall meet the requirements for safety and occupancy of the International Residential Code as adopted by the city from time-to-time.

(iii) ADUs may not be rented, bartered, leased, or exchanged separate and apart from the principal building or structure.

(iv) ~~Detached~~ ADUs **that are standalone structures** shall be limited to a maximum height of twenty-five feet (25') measured to the peak of the roof of the structure.

(v) ADU's shall have a minimum rear yard setback of fifty feet (50'), a side yard setback of twenty-five feet (25'), and a minimum of ten feet ~~(10')~~ **(10')** behind the ~~main structure~~ **principal building**.

(B) Specific regulations for ADU square footage based on zoning district:

Commented [JH3]: Added 10 in parenthesis

(i) In R-2, R-1.5, R-1, and AO zoning districts, a maximum of six hundred (600) square feet. An additional nine hundred (900) square feet may be permitted with a specific use permit. Total area of ADU shall not exceed one thousand and five hundred (1,500) square feet.

~~(ii) In R-1.5 zoning districts, a maximum of six hundred (600) square feet. An additional six hundred (600) square feet may be permitted with a specific use permit. Total area of ADU shall not exceed one thousand and two hundred (1,200) square feet.~~

~~(iii) In R-1 and AO zoning districts, a maximum of six hundred (600) square feet. An additional four hundred (400) square feet may be permitted with a specific use permit. Total area of ADU shall not exceed one thousand (1,000) square feet.~~



City of Lucas

City Council Agenda Request

December 5, 2024

Requester: Capital Improvement Projects Manager Patrick Hubbard

Agenda Item Request

Consider authorizing the City Manager to do the following:

- A. Enter into a state grant agreement with the Texas Parks and Wildlife Department for the Forest Creek Park project, providing funding for the replacement of two playgrounds and a swing set at Forest Creek Park, through the Local Parks Grant Program and to appropriate funding in the amount of \$236,326 from Unrestricted General Fund Reserves to Account 21-8211-502 for said project.
- B. Negotiate and enter into an agreement with Playground Boss for the installation of playground equipment at Forest Creek Park as outlined in the included quote and in the amount of \$154,039 using funds from Account 21-8211-502.

Background Information

The City of Lucas applied and was awarded a grant from the Texas Parks and Wildlife Department (TPWD) to replace playground equipment at Forest Creek Park. This grant was submitted in July of 2023 and awarded in March of 2024 with the final grant agreement being delivered to the City of Lucas in late November of 2024. If accepted, the City of Lucas will be able to use this grant to fund the replacement of the two playground structures at Forest Creek Park.

Since being notified of the award, staff have coordinated with vendors to receive proposals for the construction of these playgrounds. Following a review by a group of staff members of multiple proposals, staff are recommending the construction of the playgrounds and swing sets provided by Playground Boss in the attached proposal. Colors can be customized with this proposal. It is the intention of staff to order these playgrounds in the “natural” color scheme of green and tan rather than the more vibrant scheme depicted in the quote. This equipment is similar to what is being replaced both aesthetically and in terms of size but with updated features. This proposal is for design and installation including the demolition of the existing playground equipment.

It is the opinion of staff that the playgrounds included in this proposal align with the use of Forest Creek Park as a neighborhood park and that these are the right size of facilities to meet the need and feel of this park. This layout also provides a well-rounded mix of play activities.

Attachments/Supporting Documentation

- 1. TPWD Grant Agreement
- 2. Playground Boss Proposal (Quote #: 112124-29967)



City of Lucas

City Council Agenda Request

December 5, 2024

Budget/Financial Impact

The grant agreement provides an award total of \$236,326 which will need to be appropriated along with grant acceptance. The recommended proposal for the playground in this park is for a total of \$154,039. This quote is a total project cost for design and installation including the demolition of the existing playground equipment.

Recommendation

It is the recommendation of staff to accept the grant award by entering into the agreement with TPWD and to contract with Playground Boss for construction of the attached proposal.

Motion

I make a motion to approve/deny authorizing the City Manager to do the following:

- A. Enter into a state grant agreement with the Texas Parks and Wildlife Department for the Forest Creek Park project, providing funding for the replacement of two playgrounds and a swing set at Forest Creek Park, through the Local Parks Grant Program and to appropriate funding in the amount of \$236,326 from Unrestricted General Fund Reserves to Account 21-8211-502 for said project.
- B. Negotiate and enter into an agreement with Playground Boss for the installation of playground equipment at Forest Creek Park as outlined in the included quote and in the amount of \$154,039 using funds from Account 21-8211-502 set aside for set project.

TEXAS PARKS AND WILDLIFE

Recreation Grants Local Parks Grant Program STATE GRANT AGREEMENT

TPWD P.O. Number: CA-0006426

Project Number: 54-24015

Sponsor Name: City of Lucas

Project Name: Forest Creek Park

Sponsor Unique Entity Identifier: UNDCD32C54B1

Agreement Term/Period of Performance: 01/25/2024 - 04/30/2028

State Share: \$118,163.00

Sponsor Share: \$118,163.00

Total Project Cost: \$236,326.00

SECTION 1 - PROJECT DESCRIPTION AND LOCATION

This Grant Agreement is entered into by the Texas Parks and Wildlife Department (Department), and the City of Lucas (Sponsor). This award is funded through the Department under the authority of Chapter 24 of the Parks and Wildlife Code.

The scope of this Grant Agreement includes:

The City of Lucas will further develop +/- 2 acre Forest Creek Park. The grant scope includes the following elements: Playground Equipment, Site Work, Playground Surface (ADA Engineered Wood Fiber), Shade Structure, and Site Amenities.

Lincoln Park is located at 985 Orchard Gap Lane, Lucas, TX 75002.

This award is not for research and development.

SECTION 2 - SPECIAL CONDITIONS APPLICABLE TO THIS AGREEMENT

An Official Boundary Map that meets program requirements is required before final reimbursement and project closeout.

Permanent Public Park & Recreation Dedication. All land or water receiving program assistance shall be dedicated for public park and recreation use in perpetuity. No property acquired or developed with program assistance shall be converted to other than public park and recreation uses without the approval of the Department and the substitution of other park and recreation properties of at least equal fair market value and equivalent park and recreation usefulness.

SECTION 3 - PRE-AWARD INCURRENCE OF COSTS

The Sponsor shall be entitled to reimbursement of up to \$2,307.00 in pre-award project planning costs incurred on or after 01/01/2024. Such costs are allowable only to the extent that they would have been allowable if incurred after the start date of the award and only with the prior written approval of the Department.

SECTION 4 - KEY OFFICIALS

Key officials are essential to ensure maximum coordination and communications between the parties and the work being performed. They are:

FOR TEXAS PARKS AND WILDLIFE DEPARTMENT:

Dana Lagarde
Director of Recreation Grants
4200 Smith School Road
Austin, Texas 78744

Grant Manager:

Dan Reece
Recreation Grants Branch
4200 Smith School Road
Austin, Texas 78744
(512) 389-8224
dan.reece@tpwd.texas.gov

Grant Coordinator:

Matthew Mears
Recreation Grants Branch
4200 Smith School Road
Austin, Texas 78744
(512) 389-8224
matthew.mears@tpwd.texas.gov

FOR PROJECT SPONSOR:

Official Point of Contact

Harvey Hubbard
Capital Improvement Projects Manager
665 Country Club Road
Lucas, Texas, 75002
(972) 727-8999
phubbard@lucastexas.us

Project Coordinator

Harvey Hubbard
Capital Improvement Projects Manager
665 Country Club Road
Lucas, Texas, 75002
(972) 727-8999
phubbard@lucastexas.us

Fiscal Contact

John Whitsell
City Manager
665 Country Club Road
Lucas, Texas, 75002
(972) 727-8999
jwhitsell@lucastexas.us

SECTION 5 - AWARD AND PAYMENT

- A. The Department will provide funding to the Sponsor in an amount not to exceed \$118,163.00 for the project described under Project Description and Location above and in accordance with the Department-approved Budget Summary attached.
- B. The Sponsor shall obtain prior approval from the Department for budget and program revisions and shall request reimbursement via payment in accordance with the most current version of the Instructions for Approved Projects Recreation Grant Programs on form PWD BK P4000-1146.
- C. Expenses charged against awards under the Grant Agreement may not be incurred prior to the beginning of the Grant Agreement, unless stipulated in Section 3 Pre-Award Incurrence of Costs, and may be incurred only as necessary to carry out the approved objectives, scope of work and budget with prior approval from the Department Key Officials. The Sponsor shall not incur costs or obligate funds for any purpose pertaining to the operation of the project, program, or activities beyond the expiration date stipulated in the award.
- D. Indirect costs will not be allowable charges against the award unless specifically included as a line item in the approved budget incorporated into the award.
- E. The sponsor must meet their cost share commitment (if required) over the life of the grant.

SECTION 6 - MODIFICATION, REMEDIES FOR NON-COMPLIANCE TERMINATION

- A. This Agreement may be modified only by a written instrument executed by the parties. Modifications will be in writing and approved by the Department and the authorized representative of the Sponsor.
- B. Additional conditions may be imposed by the Department if it is determined that the Sponsor is non-compliant with the terms and conditions of this agreement.
- C. The Department may suspend program assistance under the project pending corrective action by the Sponsor or pending a decision to terminate the Grant Agreement by the Department.
- D. The Sponsor may unilaterally terminate the project prior to the first payment on the project or within 90 days of the TPWD Approval Date, whichever occurs earlier. After the initial payment, the project may be terminated, modified, or amended by the Sponsor only by agreement with the Department.
- E. The Department may terminate the project in whole, or in part, at any time before the date of completion, whenever it is determined that the Sponsor has failed to comply with the conditions of the grant. The Department will promptly notify the Sponsor in writing of the determination and the reasons for termination, together with the effective date. Payments made to the Sponsor or recoveries by the Department under projects terminated for cause shall be in accord with the legal rights and liabilities of the parties.
- F. The Department or Sponsor may terminate grants in whole, or in part, at any time before the date of completion, when both parties agree that the continuation of the project would not produce beneficial results commensurate with the further expenditure of funds. The two parties shall agree upon the termination conditions, including the effective date and, in the case of partial termination, the portions to be terminated. The Sponsor shall not incur new obligations for the terminated portion after the effective date and shall cancel as many outstanding obligations as possible. The Department may allow full credit to the Sponsor for the state share of the non-cancelable obligations, property incurred by the Sponsor, pending written receipt of the determination and the reasons for termination, together with the effective date. Payments made to the Sponsor or recoveries by the Department under projects terminated for cause shall be in accord with the legal rights and liabilities of the parties.
- G. Termination either for cause or for convenience requires that the project in question be brought to a state of recreational usefulness agreed upon by the Sponsor and the Department, or that all funds provided by the Department be returned.

H. If the Sponsor does not comply with provisions as set forth in the grant project agreement and the Recreation Grants Manual regarding both active project compliance and compliance at previously assisted grant sites, the following actions may be taken:

1. The Department may withhold payment to the Sponsor;
2. The Department may withhold action on pending projects proposed by the Sponsor

SECTION 7 – GRANT CLOSEOUT

Sponsor will follow closeout procedures in the Instructions for Approved Projects Recreation Grant Programs on form PWD BK P4000-1146.

SECTION 8 -TERMS OF ACCEPTANCE

By accepting funds under this grant, the Sponsor agrees to comply with the terms and conditions of this Grant Agreement, and the terms and conditions of all attachments that are applicable to the Sponsor. Sponsor also agrees to comply with assurances and certifications made in its approved grant application, and applicable federal statutes, regulations and guidelines. Sponsor agrees to fulfill the grant in accordance with the approved grant application, budgets, supporting documents, and all other representations made in support of the approved grant application.

Signature Authority

The person or persons signing this Grant Agreement on behalf of the Sponsor hereby warrant and guarantee that they are duly authorized by the Sponsor to execute this Grant Agreement on behalf of the Sponsor and to validly and legally bind the Sponsor to all the terms of this agreement.

Entire Agreement; Modifications Must Be in Writing

This Grant Agreement and each of its provisions will be binding upon the parties and may not be waived, modified, amended or altered unless with prior written approval by both parties.

Venue; Governing Law

This Grant Agreement shall be governed by the laws of the State of Texas. The proper place of venue for suit on or in respect of the Agreement shall be Travis County.

SECTION 9 – ATTACHMENTS INCORPORATED BY REFERENCE

The following completed documents are attached to and made part of this Agreement:

Budget Summary
Boundary Map
Certificate of Land Dedication (signature required)
Texas Historical Commission Review
TPWD Resource Review
Assurances for State-Funded Projects
Instructions for Approved Projects
Local Park Grant Manual
Texas Grant Management Standards

SECTION 10 – SIGNATURES

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the date(s) set forth below.

TEXAS PARKS AND WILDLIFE DEPARTMENT

Signature: Dana Lagarde

Date: 11/18/2024

SAM Date/Initials: 11/15/2024 / M.M.

Federal Aid Date/Initials:

City of Lucas

Name: _____

Title: _____

Signature: _____

Date: _____



ACCOUNT REP: James Bradshaw
james@playgroundboss.com
1-800-878-0320 ext. 107

QUOTE #: 112124-29967
DATE CREATED: 11-21-2024
Quote is valid for 30 days

PROJECT CONTACT

PROJECT CONTACT: Patrick Hubbard
ADDRESS: 665 Country Club Rd
Lucas, TX 75002
EMAIL: phubbard@lucastexas.us
PHONE: 972-912-1209



SHIP TO / SITE CONTACT

SHIPPING / SITE CONTACT: Patrick Hubbard
SHIP TO ADDRESS: 985 Orchard Gap Lane
Lucas, Tx 75002
EMAIL: phubbard@lucastexas.us
PHONE: 972-912-1209

COMMENTS AND SPECIAL INSTRUCTIONS: Price quoted for materials, installation and delivery only. Price excludes sitework, concrete, underground line location, permits, liftgates, & impact fees unless specifically noted below. Customer is responsible for any taxes that may apply. If order is cancelled a 25% restocking fee may be assessed

QTY	PRODUCT	PRICE	DISCOUNT	TOTAL
1	Note 6 SKU: Note 6 BuyBoard VENDOR: Playground Boss Cooperative Contract Award: Contract Number: 679-22, Parks and Recreation Equipment, Products, and Installation Services The Interlocal Purchasing System (TIPS) VENDOR: Playground Boss VENDOR ID: 7459 Cooperative Contract Award: 21070201 Playground Equipment and Installation Services Cooperative Contract Award: 21070202 Playground Equipment and Installation Services (JOC)			\$ 0
	Note Large Play Area Ages 2 to 12. 92ft x 60ft			
1	The Hills SKU: PGB-34524 Variants: COLOR SCHEME: Natural FREE SHIPPING - Age: 2 to 12, Child Capacity: 46, Play Activities: 19 Safety Use Zone: 45ft x 33ft FREE Safety Sign for Ages 2-12 << IN-STOCK and AVAILABLE FOR IMMEDIATE DELIVERY >>	\$ 84,532	\$42,306	\$ 42,226
1	3.5 Arch Swing Frame 8ft - 2 Bay SKU: PGBASF-350802 Variants: SWING FRAME COLOR: Rainforest Green Age: 2 to 12, Child Capacity: 4, Play Activities: 1 Safety Use Zone: 36ft x 33ft	\$ 2,292		\$ 2,292
2	Belt Seat (BUNDLE) SKU: PGBS130-Bundle Variants: SEAT COLOR: Black FREE SHIPPING - Commercial Grade Bundle Includes 1 belt seat 2 chains 4 shackles 1 shackle key	\$ 153		\$ 306

QTY	PRODUCT	PRICE	DISCOUNT	TOTAL
2	Bucket Seat (BUNDLE) SKU: PGBS100-Bundle Variants: SEAT COLOR: Black FREE SHIPPING - Commercial Grade Bundle Includes 1 bucket seat 2 chains 4 shackles 1 shackle key Note Small Play Area 2 to 5. 40ft x 44ft	\$ 307		\$ 614
1	Shady Days SKU: PGB-20212 Variants: COLOR SCHEME: Natural FREE SHIPPING - Age: 2 to 5, Child Capacity: 36, Play Activities: 10 Safety Use Zone: 28ft x 27ft INCLUDES FREE SAFETY SIGN <<< ITEM IS IN-STOCK AND AVAILABLE FOR IMMEDIATE DELIVERY >>>	\$ 41,672	\$20,836	\$ 20,836
	Note SAFETY SURFACE FOR BOTH PLAY AREAS			
1	ADA Engineered Wood Fiber SKU: EWF ADA - Engineered Wood Fiber- 270 cubic yards	\$ 15,660		\$ 15,660
7	Filter Fabric - Weed Barrier SKU: PGB-CSP4300BLK FREE SHIPPING - Contractor Select Plus Landscape Fabric - 4ft x 300ft. **** 1 Roll Accommodates 1,100 Sqft ***	\$ 223		\$ 1,561
	Note SITE AMENITIES			
2	CUSTOM SITE AMMENITY SKU: PGBCUSTOMSF Variants: COLOR: Green PGBBPY06-B-32-000 6' Player's Bench with Back - 15" Wide Seats - Punched Steel - Surface Mount - Advantage Coating	\$ 1,386		\$ 2,772
1	Custom Site Amenity 2 SKU: Custom Site Amenity 2 Variants: COLOR: Green PGBTRT08-B-64-000 8 2 Pedestal Table – Punched Steel – Surface Mount – Advantage Coating	\$ 3,018		\$ 3,018
1	Custom Site Amenity 3 SKU: Custom Site Amenity 3 Variants: COLOR: Green PGBTRT10-B-01-000 10 2 Rectangular Portable Table – 2- 5 2 Sections – Punched Steel – Advantage Coating	\$ 2,675		\$ 2,675
	Note SITE PREP AND DEMO			
1	Removal SKU: REMOVAL **SWING SET TO BE REMOVED W/OUT DEMOLISHING FOR CITY TO REINSTALL AT ANOTHER LOCATION** Demo and remove (2) play structures, 1 concrete picnic table and (2) concrete benches.	\$ 9,863		\$ 9,863
1	Site Prep SKU: SITEPREP Removal of 7,280 sq ft of EWF EXCAVATED and edges redefined. Removal of existing filter fabric and soil. 269 CY LARGE PLAY AREA 92ft x 60ft SMALL PLAY AREA 44ft x 40ft	\$ 5,384		\$ 5,384
472	Concrete Curbing SKU: CONCRETECURBING Concrete curbing 6 inch tall by 6 inch wide. 304 liner feet Concrete curbing 6 inch tall by 6 inch wide. 168 liner feet	\$ 40		\$ 18,880

QTY	PRODUCT	PRICE	DISCOUNT	TOTAL
7	Dumpster Rental SKU: DUMPSTER Roll Off Dumpster (for disposal of ewf, concrete, spoils, shipping crate and packing materials)	\$ 985		\$ 6,895
1	Additional Discount SKU: DISCOUNT ADDITIONAL DISCOUNT: FREE PICNIC TABLE \$2,675 ADDITIONAL DISCOUNT: FREIGHT DISCOUNT \$1,895 PREFERRED CUSTOMER DISCOUNT \$2500		\$ 7,530	\$ -7,530
	Professional Installation SKU: INSTALL	\$ 26,692		\$ 26,692
	Customer Installation Note Installation of (2) play structures, (1) swing frame, (2) benches, (2) tables PLAY AREA 1 92ft x 60ft PLAY AREA 1 44ft x 40ft			
	Shipping And Freight Charges SKU: SHIPPING Delivery of products to supplied shipping address	\$ 1,895		\$ 1,895

I APPROVE THIS PROJECT. Let's do this!

Approval of this proposal may be executed by signing below and emailing back to the contact information listed below. Unless prior arrangements are approved, payment is due upon ordering.

Account Rep: James Bradshaw
james@playgroundboss.com
1-800-878-0320 ext. 107

Authorized Purchaser: _____

Date: _____

Subtotal \$ 154,039

Tax \$ 0

\$ 154,039

Have questions about this quote?

 **CALL US**
1-800-878-0320

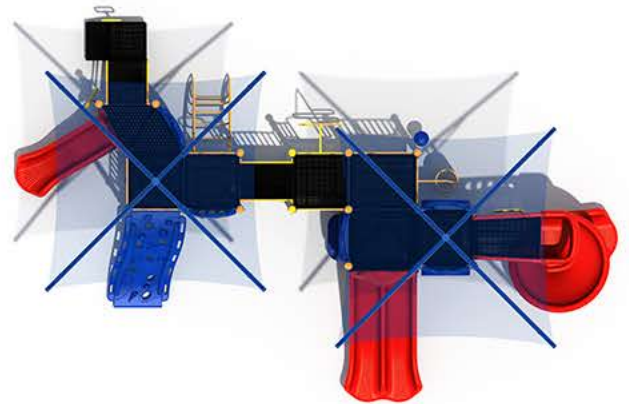


Ages
2 to 12

Use Zone: 45ft x 33ft
Child Capacity: 46
Play Activities: 19

The Hills

SKU: PGB-34524



Call Us
1-800-878-0320

PlaygroundBoss.com

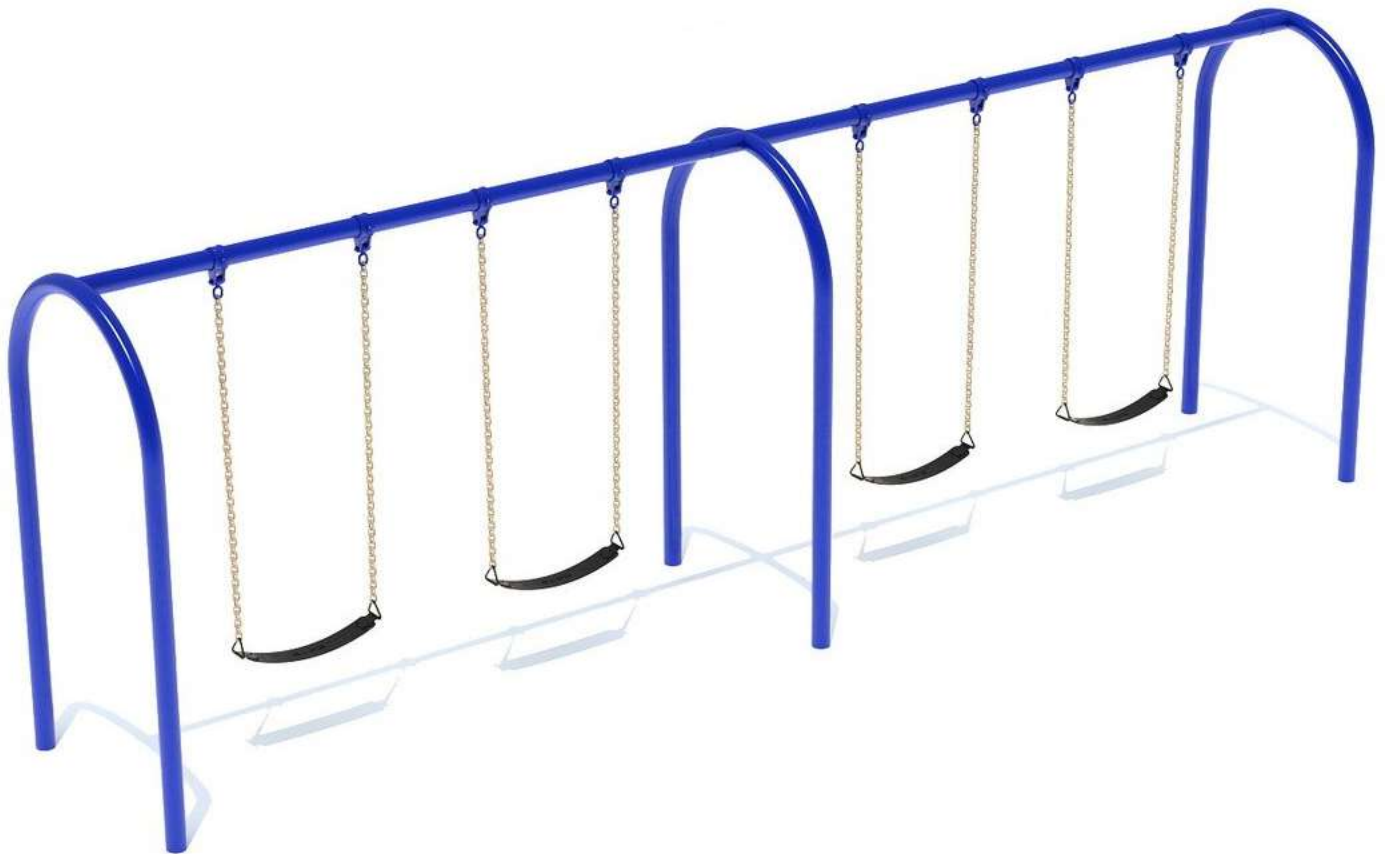


Ages 2-12

Use Zone: 36ft x 33ft
Child Capacity: 4
Play Activities: 4

3.5" Arch Swing Frame 8ft - 2 Bay

SKU: PGBASF-35082



Call Us
1-800-878-0320

[PlaygroundBoss.com](https://www.PlaygroundBoss.com)

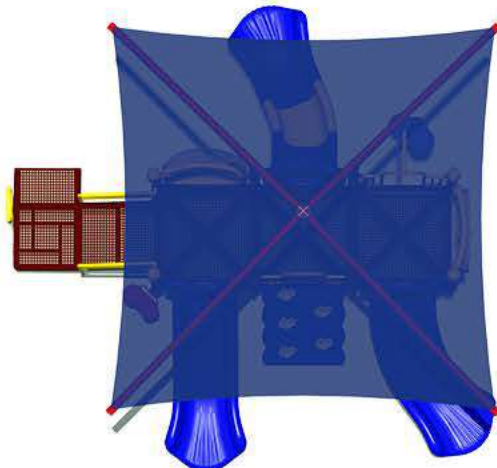


Ages 2-5

Use Zone: 28ft x 27ft
Child Capacity: 36
Play Activities: 10

Shady Days

SKU: PGB-20212



 **Call Us**
1-800-878-0320

PlaygroundBoss.com



Warranty

100
15
5
3
1

One Hundred (100) Year Limited Warranty

On aluminum and steel upright posts, hardware, post caps, and clamps against structural failure due to deterioration, corrosion, or workmanship.

Fifteen (15) Year Limited Warranty

On rails, rungs, rigid climbers, loops, HDPE and rotationally molded plastic components, and decks against structural failure due to deterioration, corrosion, or workmanship.

Five (5) Year Limited Warranty

On cables and nets against premature wear due to natural deterioration or manufacturing defects. On moving parts against structural failure due to materials or workmanship.

Three (3) Year Limited Warranty

On all blow molded plastics against structural failure due to materials, or workmanship.

One (1) Year Limited Warranty

On all materials and products not covered above against failure due to materials or workmanship.

Playground Boss warrants to its original customer for as long as the original customer owns the product and uses the product with regular use and installation in accordance with published specifications to be free from defects in materials and workmanship. This warranty does not cover damage from misuse, vandalism, modified parts, or damage such as dents, scratches, fading/weathering, acts of God, and normal wear and tear.

Warranty claims must be filed within the applicable warranty period. Warranty replacement does not include the cost of labor for part replacement. Replacement parts carry the applicable warranty from the date of shipment of the replacement part.

 **Call Us**
1-800-878-0320

PlaygroundBoss.com



City of Lucas

City Council Agenda Request

December 5, 2024

Requester: Capital Improvement Projects Manager Patrick Hubbard

Agenda Item Request

Consider authorizing the City Manager to negotiate and enter into an agreement with Curtco Incorporated to complete asphalt crack sealing throughout the City of Lucas in an amount not to exceed \$100,000 using funds from Account 11-8209-301, Improvement Roads.

Background Information

This item provides funds for annual contracted crack sealing to supplement staff road maintenance efforts. This will provide for crack sealing throughout the city over the course of the current fiscal year and will be subsequently divided into several work areas based on available funds. In general, the city will seek to address known problem areas and then to seal cracks on the most recently paved roads that have not been recently sealed first and then work backwards in time until the available funds are depleted. Public Works staff have already completed some crack sealing on recently paved streets and will continue to complete routine maintenance. This is supplemental to staff resources.

It is good practice to seal cracks on newer pavement first because this offers the highest potential addition to pavement life on city streets. Crack sealing prevents ponding of water and water intrusion into road base. If not addressed, water intrusion through surface cracking can result in the premature failure of road base or the forming of wider cracking. Cracking is a natural and inevitable part of the asphalt lifecycle and sealing cracks is an essential part of street maintenance for optimizing road life. As preventative maintenance, crack sealing offers a higher level of benefit per dollar than heavier or more extensive repair or replacement of roads.

The City of Lucas has utilized a contract between Curtco Inc. and the City of Grand Prairie for crack sealing services over the previous two fiscal years via an interlocal agreement between the City of Lucas and the City of Grand Prairie. Staff have been satisfied with their work and quality of customer service. They are also the lowest cost vendor that staff have been able to identify for this type of service. If hired, the contractor will complete this work over the course of the winter.

Attachments/Supporting Documentation

1. Interlocal Agreement with Grand Prairie
2. Original Contract – Grand Prairie and Curtco Inc.
3. Amendment 1 to Price Agreement – Grand Prairie and Curtco Inc.

Budget/Financial Impact

The current budget for Account 11-8209-301 for Fiscal Year 2024-2025 is \$862K. This project would use 11.6% of road improvements and maintenance funding set aside in this account.



City of Lucas

City Council Agenda Request

December 5, 2024

Recommendation

It is the recommendation of staff that City Council approve entering into an agreement with Curtco Inc. to complete crack sealing.

Motion

I make a motion to approve/deny authorizing the City Manager to negotiate and enter into an agreement with Curtco Incorporated to complete asphalt crack sealing throughout the City of Lucas in an amount not to exceed \$100,000 using funds from Account 11-8209-301, Improvement Roads.



Contract Coversheet

Dept: * Purchasing

Contract ID: 21624

For: City-Wide

Bid Number: NA

Contact Name: Angi Mize

Contact Phone: * 8262

Contact Email: * amize@gptx.org

Vendor Name: City of Lucas

Vendor Email: jclarke@lucastexas.us

Project Name: Master Interlocal Agreement City of Lucas

Summary: master interlocal

Permanent Retention *

☐ Yes

☒ No

Contract Amount

\$ 0.00

Total Contract Amount over all terms

\$

Account #

Work Order #

Dates

Implementation Date

8/3/2022

Termination Date

8/31/2099

Council Approval Date

8/2/2022

Contract Approvals

Department Manager:

Cathy Patrick

Date 8/22/2022

City Attorney Signature

Mark E. Dempsey

Date 8/22/2022

City Manager Signature

Cheryl Y. De Leon

Date 8/29/2022

City Secretary Signature

HL Galicia

Date 8/29/2022

**MASTER INTERLOCAL COOPERATIVE PURCHASING AGREEMENT
BETWEEN THE CITY OF GRAND PRAIRIE
AND CITY OF LUCAS**

WHEREAS, Chapter 791 of the Texas Government Code, also known as the Interlocal Cooperation Act, and Chapter 271.102 of the Texas Local Government Code authorize all local governments to contract with each other to perform governmental functions or services including administrative functions normally associated with the operation of government such as purchasing of necessary equipment, supplies and services;

WHEREAS, The City of Grand Prairie (the “City”) and CITY OF LUCAS (“Entity”) desire to enter into this Agreement for the purpose of fulfilling and implementing their respective public and governmental purposes, needs, objectives, programs and services;

WHEREAS, The City and Entity represent that each are independently authorized to perform the functions or services contemplated by this Agreement;

WHEREAS, it is deemed in the best interest of all participating governments that said governments do enter into a mutually satisfactory agreement for the purchase of necessary equipment, supplies, and services;

WHEREAS, the participating governments are of the opinion that cooperation in the purchasing of equipment, supplies, services and auctions will be beneficial to the taxpayers of the governments through the efficiencies and potential savings to be realized; and

WHEREAS, each party has sufficient resources to perform the functions contemplated by this Agreement;

NOW THEREFORE, the parties hereto, in consideration of the mutual covenants and conditions contained herein, promise and agree as to each of the other as follows:

1. The City and Entity are authorized to participate in each other’s current and/or future contracts for goods and services. Said contracts shall have been established in accordance with all appropriate procedures governing competitive bids and competitive proposals, if required.
2. The City and Entity agree that the ordering of goods and services is the responsibility of the local government seeking to obtain such goods and services under the established contract, and that participating government shall deal directly with the vendor in obtaining the goods and services and payment therefore. The participating government shall be liable to the vendor only for goods and services ordered and received by it, and shall not, by the execution of this Agreement, assume any additional liability. Neither the City nor Entity warrants, or is responsible for, the quality or delivery of goods or services from the vendor under contract. Should a dispute arise between a participating government and a vendor, the same shall be handled by and between that participating government and the vendor.

3. Each government shall pay invoices directly to the providers of goods and services that are invoiced and delivered directly to each respective government.
4. Participation of either government in any cooperative purchasing activity is strictly voluntary. Nothing in this Agreement shall prevent either governments from purchasing and/or accepting and awarding bids, proposals and contracts subject to this Agreement on its own behalf.
5. Each government shall ensure that all applicable laws and ordinances have been satisfied.
6. **Effective Date and Term.** This Agreement shall be effective when the last party signing causes the Agreement to be fully executed and will remain in full force and effect indefinitely. Any party may modify and/or terminate this Agreement in accordance with Paragraphs 7 and 8, respectively.
7. **Modification.** The terms and conditions of this Agreement may be modified upon the mutual consent of all parties. Mutual consent will be demonstrated by approval of the governing body of each party hereto. No modification to this Agreement shall be effective and binding unless and until it is reduced to writing and signed by duly authorized representatives of all parties.
8. **Termination.** This Agreement may be terminated at any time by the City or Entity, with or without cause, upon thirty (30) days written notice to the other party in accordance with Paragraph 11 herein.
9. **Hold Harmless.** To the extent allowed by law, the City and Entity agree to hold each other harmless from and against any and all claims, losses, damages, causes of action, suits and liabilities of every kind, including all expenses of litigation, court costs and attorney's fees, for injury or death of any person, for damage to any property, or for any breach of contract, arising out of or in connection with the work done under this Agreement.
10. **Invalidity.** If any provision of this Agreement shall be held to be invalid, illegal, or unenforceable by a court or other tribunal of competent jurisdiction, the validity, legality and enforceability of the remaining provisions shall not in any way be affected or impaired thereby. The parties shall use their best efforts to replace the respective provision or provisions of this Agreement with legal terms and conditions approximating the original intent of the parties.
11. **Written Notice.** Unless otherwise specified, written notice shall be deemed to have been duly served if delivered in person, sent by email, by fax with successful send confirmation, or by certified mail to the last business address as listed herein.

City of Grand Prairie:

Purchasing Division
Attn: Purchasing Manager
City of Grand Prairie
300 W. Main St.
PO Box 534045
Grand Prairie, TX 75050
Phone: (972) 237-8269
Fax: (972) 237-8265
purchasingfax@gptx.org

City of Lucas:

City Manager
Attn: City Manager
City of Lucas
665 Country Club Rd
Lucas, TX 75002
Phone: (972) 727-8999
Fax: (972) 727-0091
jclarke@lucastexas.us

12. **Entire Agreement.** It is understood that this Agreement contains the entire agreement between the parties and supersedes any and all prior agreements, arrangements, or understandings between the parties relating to the subject matter. No oral understandings, statements, promises, or inducements contrary to the terms of this Agreement exist. This Agreement cannot be changed or terminated orally. No verbal agreement or conversation with any officer, agent, or employee of any party before or after the execution of this Agreement shall affect or modify any of the terms or obligations hereunder.
13. **Amendment.** No Amendment to this Agreement shall be effective and binding unless and until it is reduced to writing and signed by duly authorized representatives of both parties.
14. **Texas Law.** This Agreement has been made under and shall be governed by the laws of the State of Texas.
15. **Place of Performance.** Performance and all matters related thereto shall be in the County of the government originating the bid. This shall be Collin County, Texas, United States of America for Entity and shall be Dallas County, Texas, United States of America for the City.
16. **Authority to Enter Contract.** Each party has the full power and authority to enter into and perform this Agreement and the person signing this Agreement on behalf of each party has been properly authorized and empowered to enter into this Agreement. The persons executing this Agreement hereby represent that they have authorization to sign on behalf of their respective Government.
17. **Waiver.** Failure of any party, at any time, to enforce a provision of this Agreement, shall in no way constitute a waiver of that provision, nor in

anyway affect the validity of this Agreement, any part hereof, or the right of either party thereafter to enforce each and every provision hereof. No term of this Agreement shall be deemed waived or breach excused unless the waiver shall be in writing and signed by the party claimed to have waived. Furthermore, any consent to or waiver of a breach will not constitute consent to or waiver of or excuse of any other different or subsequent breach.

18. **Agreement Read.** The parties acknowledge that they understand and intend to be bound by the terms and conditions of this Agreement.
19. **Multiple Originals.** It is understood and agreed that this Agreement may be executed in multiple counterparts, each of which shall be deemed an original for all purposes.

CITY OF GRAND PRAIRIE

BY: Cheryl Dehn

Deputy City Manager

DATE: 8/29/2022

ATTEST: Mona Lisa Galicia

Mona Lisa Galicia, City Secretary

DATE: 8/29/2022

APPROVED AS TO FORM:

Mark E. Dempsey, Deputy City Attorney

Megan Mahan, City Attorney

CITY OF LUCAS

BY: Joni Clarke

City Manager

Joni Clarke, City Manager
"BY" Printed Name and Title

ATTEST: Kevin Becker

Kevin Becker, Management Analyst
"ATTEST" Printed Name and Title



Contract Coversheet

Dept: * Purchasing

Contract ID: 21186

For: Public Works

Bid Number: 21119

Contact Name: Angi Mize

Contact Phone: * 8262

Contact Email: * amize@gptx.org

Vendor Name: Curtco, Inc.

Vendor Email: cwheatcraft@aol.com

Project Name: Pavement Crack & Joint Sealing (21119)

Summary: initial contract

Permanent Retention *

☐ Yes

☒ No

Contract Amount

\$ 2,810,000.00

Total Contract Amount over all terms

\$ 14,050,000.00

Account #

Work Order #

Dates

Implementation Date

9/1/2021

Termination Date

8/31/2022

Council Approval Date

8/17/2021

Contract Approvals

Department Manager:

Cathy Patrick

Date 8/27/2021

City Attorney Signature

CHUONG Q. PHUNG

Date 9/7/2021

City Manager Signature

WILLIAM A. HILLS

Date 9/7/2021

City Secretary Signature

H.L. Galicia

Date 9/8/2021

**CITY OF GRAND PRAIRIE
SERVICES PRICE AGREEMENT**

THIS CONTRACT is made and entered into this date by and between the **CITY OF GRAND PRAIRIE**, a Texas municipal corporation (hereinafter referred to as the "CITY"), and **CURTCO, INC.** (hereinafter referred to as "VENDOR") and evidences the following:

I. PURPOSE

VENDOR shall provide pavement crack & joint sealing services per bid award resulting from VENDOR's response to RFB #21119, submitted by Curtis Wheatcraft, on July 8, 2021.

II. DESCRIPTION OF SERVICES

The services which VENDOR shall provide for the CITY shall include the following:

- A. VENDOR hereby covenants and agrees that VENDOR is to work closely with the CITY's Public Works Director or their designee, and/or other appropriate officials of the CITY, and that VENDOR is to perform any and all tasks required of VENDOR to fulfill the purposes of this Contract.
- B. VENDOR and the CITY covenant and agree that VENDOR shall perform all of the services and work contained in CITY specifications and VENDORS bid to CITY (attached hereto as "Exhibit A"); said document being part of this Contract and incorporated in its entirety herein. The parties agree that should there be any conflict between the terms of the incorporated document and this Contract, the provisions of this Contract shall control. The parties understand that quantity of services to be furnished to the City is an estimate and that the City may order more, less, or none of the services depending on the projects and the work of the City that requires the services. The price of the services shall remain constant throughout the term of contract.
- C. VENDOR expressly covenants and agrees to provide the CITY with such written reports or documentation of guaranties as may be required by the scope of the submittal.

III. PERFORMANCE OF WORK

VENDOR or VENDOR'S associates and employees shall perform all the work called for in this Contract. VENDOR hereby covenants and agrees that all of VENDOR'S associates and employees who work on this project shall be competent and fully qualified to do the work described in this Contract, the services performed shall be performed in a good and workmanlike manner, and the finished product shall be fit for the particular use(s) contemplated by this agreement.

IV. PAYMENT

The CITY shall pay to VENDOR a sum not to exceed those unit prices, or percentage discount from list price where applicable in the submittal for the purchase of services designated herein and in no event shall total payments under the base contract exceed \$2,810,000.00 without additional approval. VENDOR'S invoices must be delivered to the attention of the department placing the order. The city will pay invoices as work is completed and within 30 days after receipt of an invoice or certification by the City that the work is performed in a good and workmanlike manner, whichever is later. Payment will be made by means of a City issued check, an ACH, or with a City issued Procurement Card (Mastercard).

V. TERM OF THE CONTRACT

This Contract is for an initial term of one year with the option to renew for four additional one year periods. This Contract is effective as of September 1, 2021. No new orders shall be accepted, against this Contract term, after midnight on August 31, 2022. Contract shall terminate upon completion of all requirements for orders placed by said date, unless the parties mutually agree in writing to extend the term of the Contract through allowable renewal option, or unless otherwise terminated as provided in Paragraph XVI herein. The parties shall evidence the renewal in writing, with any additional terms set out in the said writing.

VI. CONTRACT ASSIGNMENT

VENDOR and the CITY hereby covenant and agree that this Contract provides for services and that these services are not to be assigned or sublet in whole or part without the prior written consent of the CITY.

VII. CONFLICT OF INTEREST

VENDOR hereby covenants and agrees that during the Contract period that VENDOR and any of VENDOR'S associates and employees will have no interest nor acquire any interest, either direct or indirect, which will conflict in any manner with the performance of the services called for under this Contract. All activities, investigations and other efforts made by VENDOR pursuant to this Contract will be conducted by employees or associates of VENDOR. VENDOR further covenants and agrees that it understands that the Code of Ordinances of the City of Grand Prairie prohibits any officer or employee of the CITY from having any financial interest, either direct or indirect, in any business transaction with the CITY. Any violation of this paragraph which occurred with the actual or constructive knowledge of VENDOR will render this Contract voidable by the CITY.

VIII. CHANGE IN WORK

The CITY, through its Purchasing Manager or their designee, may request changes in the scope and focus of the activities and duties called for under this Contract. Any such change which, in the opinion of VENDOR or the CITY varies significantly from the scope and focus of the work set out herein or entails a significant increase in cost or expense to VENDOR must be mutually agreed upon by VENDOR and the CITY. The parties herein acknowledge that any change in the scope or focus of the work which results in the increase in compensation to VENDOR of the fee stated in Paragraph IV hereof must first be approved by the CITY's Purchasing Manager, City Manager or City Council, where applicable.

IX. CONFIDENTIAL WORK

Any reports, designs, plan, information, project evaluations, data or any other documentation given to or prepared or assembled by VENDOR under this Contract shall be kept confidential and may not be made available to any individual or organization by VENDOR without the prior written approval of the CITY except as may be required by law.

X. OWNERSHIP OF DOCUMENTS

VENDOR acknowledges that CITY owns all notes, reports, or other documents, intellectual property or documentation produced by the vendor pursuant to this agreement or in connection with its work which are not otherwise public records. VENDOR acknowledges that CITY shall have copyright privileges to those notes, reports, documents, processes, and information.

VENDOR shall provide CITY a copy of all such notes, reports, documents, and information (except to the extent that they contain confidential information about third parties) at CITY expense upon written request.

XI. NONDISCRIMINATION

As a condition of this Contract, VENDOR covenants and agrees that VENDOR shall take all necessary actions to ensure, in connection with any work under this Contract, VENDOR, VENDOR'S associates, sub-vendors, and employees will not discriminate in the treatment or employment of any individual or groups of individuals on the grounds of race, color, religion, national origin, age, sex, or physical or mental handicap, either directly or indirectly or through contractual or other arrangements. In this regard, VENDOR shall keep, retain, and safeguard all records relating to this Contract for work performed hereunder for a minimum period of three (3) years from final contract completion, with full access allowed to authorized representatives of the CITY upon request, for purposes of evaluating compliance with this and other provisions of the Contract. VENDOR verifies that it does not "boycott Israel" as that term is defined in Tex. Govt. Code §808.001 and will not boycott Israel during the term of this contract.

XII. INDEPENDENT VENDOR

By the execution of this Contract, the CITY and VENDOR do not change the independent vendor status of VENDOR. No term or provision of this Contract or any act of VENDOR in the performance of this Contract may be construed as making VENDOR the agent or representative of the CITY. All employees of VENDOR shall perform their duties under the supervision of VENDOR, which shall have the exclusive right to dictate to the VENDOR'S employees how to perform their tasks. VENDOR agrees and covenants that each of its employees will be properly qualified and will use reasonable care in the performance of the assigned duties. VENDOR shall post all applicable warning signs if such work will disrupt normal traffic or workplace activities.

XIII. WARRANTY, HOLD HARMLESS, AND INDEMNITY

VENDOR warrants that the services it performs for CITY will be performed in a good and workmanlike manner, and that any items delivered to the CITY under this contract will be fit for the particular purpose for which it was furnished. VENDOR shall defend, indemnify, and hold the CITY whole and harmless against any and all claims for damages, costs, and expenses to persons or property that may arise out of, or be occasioned by, the execution or performance of this Contract or any of VENDOR'S activities or any act of commission or omission related to this Contract of any representative, agent, customer, employee, sub-vendor or invitee of VENDOR or any representative, agent, employee, or servant of the CITY. If an item is covered by a manufacturer's warranty, it is the responsibility of the VENDOR to obtain the information for CITY and to get the manufacturer to honor the warranty.

XIV. INSURANCE

Prior to the commencement of work under this Contract, VENDOR shall obtain and shall continue to maintain at no cost to the CITY, in full force and effect during the term of this Contract, a comprehensive liability insurance policy with a company licensed to do business in the State of Texas and rated not less than "A" in the current Best Key Rating Guide, which shall include bodily injury, death, automobile liability, worker's compensation, and property damage coverage, in accordance with any CITY ordinance or directive. The minimum limits for this coverage shall be \$1,000,000.00 per occurrence / \$2,000,000 aggregate for general liability and for property damage, and \$1,000,000 combined single limit for automobile liability unless modified in accordance with any ordinance or directive. Insurance obtained by VENDOR shall be primary and noncontributory, and CITY shall be named as an additional insured under the general liability and automobile policies. A provision shall be incorporated in the policies whereby CITY shall be given at least thirty (30) days prior notice of any material change in coverage or of cancellation of such policies, and VENDOR shall provide the City with a copy of any such notice of material change in coverage or cancellation of any such policies, within three (3) business days of its receipt of such a notice. For purposes of this section, a material change in coverage includes, but is not limited to, a reduction in coverage below the amounts required under this agreement. VENDOR shall provide a waiver of subrogation in favor of the CITY on all coverages and represents that it has taken all actions necessary under the policy or policies for the City to have the status of additional insured and to effectuate any required waiver of subrogation. VENDOR shall furnish the CITY with original copies of the policies or certificates evidencing such coverage prior to commencement of any work under this Contract.

XV. NO VERBAL AGREEMENT

This Contract contains the entire commitments and agreements of the parties to the Contract. Any verbal or written commitment not contained in this Contract or expressly referred to in this Contract and incorporated by reference shall have no force or effect.

XVI. TERMINATION

The CITY may, at its option and without prejudice to any other remedy to which it may be entitled at law or in equity, terminate further work under this Contract, in whole or in part, by giving at least thirty (30) days prior written notice thereof to VENDOR with the understanding that all services being terminated shall cease upon the date specified in such notice. The CITY shall equitably compensate VENDOR, in accordance with the terms of this Contract for the services properly performed prior to the date specified in such notice following inspection and acceptance of same by the CITY. VENDOR shall not, however, be entitled to lost or anticipated profits should the CITY choose to exercise its option to terminate.

XVII. VENUE

The parties to this Contract agree and covenant that this Contract will be performable in Grand Prairie, Texas, and that if legal action is necessary to enforce this Contract, exclusive venue will lie in Dallas County, Texas.

XVIII. APPLICABLE LAWS

This Contract is made subject to the existing provisions of the Charter of the City of Grand Prairie, its rules, regulations, procedures, and ordinances, present and future, and all applicable laws of the State of Texas and the United States.

XIX. FIREARM AND AMMUNITION INDUSTRY CONTRACT VERIFICATION

VENDOR verifies that, in accordance with the terms defined in Section 2274.001 of the Texas Government Code, it does not have a practice, policy, guidance, or directive that discriminates against a firearm entity or firearm trade association, and that it will not during the term of the contract discriminate against a firearm entity or firearm trade association.

XX. CONTRACT INTERPRETATION

The parties to this Contract covenant and agree that in any litigation relating to this Contract, the terms and conditions of the Contract will be interpreted according to the laws of the State of Texas, without regard to any conflict of law rules.

XXI. NOTICES

All notices, requests, or other communications (excluding invoices) hereunder must be in writing and transmitted via overnight courier, email, hand delivery, or certified or registered mail, postage prepaid and return receipt requested to the CITY and VENDOR as follows:

CITY:

City of Grand Prairie
ATTN: Angi Mize, Sr. Buyer/ Purchasing Division
300 Main Street, Grand Prairie, TX 75050
PO Box 534045, Grand Prairie, TX 75053-4045
Phone 972-237-8262 | Email purchasingfax@gptx.org
Accounts Payable Contact: accountspayable@gptx.org

City of Grand Prairie
ATTN: Dane Stovall, Public Works/Streets
1821 S SH161, Grand Prairie, TX 75052
PO Box 534045, Grand Prairie, TX 75053-4045
Phone 972-237-8256 | Email dstovall@gptx.org

VENDOR:

Curtco, Inc.
ATTN: Curtis Wheatcraft
6133 Hwy 27, Center Point, TX, 78010
Phone 830-634-3434 | Email cwheatcraft@aol.com

Any notice required or desired to be given to either party hereto shall be deemed to be delivered: (i) on the date of delivery, if hand delivered or emailed; (ii) one (1) day after sending, if sent by overnight courier; or (iii) three (3) days after the same is deposited in an official depository under the regular care and custody of the United States Postal Service located within the confines of the United States of America and sent by registered or certified mail, return receipt requested, and addressed to such party at the address hereinafter specified. Either party hereto may change such party's address for notice to another address within the United States of America, but until written notice of such change is actually received by the other party, the last address of such party designated for notice shall remain such party's address for notice.

XXII. SEVERABILITY

In the event that any provision contained in this Contract is held to be invalid, illegal, or unenforceable in any respect, such invalidity, illegality, or unenforceability shall not affect any other provision thereof and this Contract shall be considered as if such invalid, illegal, or unenforceable provision had never been contained in the Contract.

XXIII. RIGHT OF REVIEW

VENDOR covenants and agrees that the CITY, upon reasonable notice to VENDOR, may review any of the work performed by VENDOR under this Contract.

XXIV. WAIVER OF ATTORNEYS FEES

VENDOR and CITY expressly covenant and agree that in the event of any litigation arising between the parties to this contract, each party shall be solely responsible for payment of its attorneys and that in no event shall either party be responsible for the other party's attorney's fees regardless of the outcome of the litigation.

XXV. NON-COLLUSION

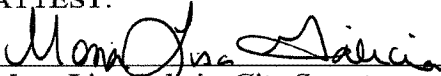
VENDOR represents and warrants that VENDOR has not given, made, promised, or paid, nor offered to give, make, promise, or pay any gift, bonus, commission, money, or other consideration to any person as an inducement to or in order to obtain the work to be provided to the CITY under this Contract. VENDOR further agrees that VENDOR shall not accept any gift, bonus, commission, money, or other consideration from any person (other than from the CITY under this Contract) for any of the services performed by VENDOR under or related to this Contract. If any such gift, bonus, commission, money, or other consideration is received by or offered to VENDOR, VENDOR shall immediately report that fact to the CITY and, at the sole option of the CITY, the CITY may elect to accept the consideration for itself or to take the value of such consideration as a credit against the compensation otherwise owing to VENDOR under this Contract.

EXECUTED this the 26th day of August, 21.

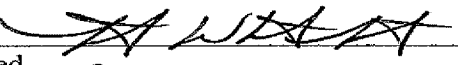
CITY OF GRAND PRAIRIE, TEXAS

By: 
Deputy City Manager

ATTEST:

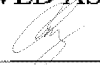

Mona Lisa Galicia, City Secretary

CURTCO, INC.

By: 
Printed
Name: CURTIS WHEATERCRAFT

Title: PRESIDENT

APPROVED AS TO FORM:


Megan Mahan, City Attorney

Chuong Q. Phung, Assistant City Attorney

CONTRACT FOR PRICE AGREEMENT ~ RFB #21119
(City Standard Form—Revision June 2021)



CITY OF GRAND PRAIRIE, TEXAS

REQUEST FOR BIDS

RFB # 21119 – Pavement Crack & Joint Sealing Services

DUE DATE: PRIOR TO 2PM July 16, 2021

DUE TO: Angi Mize, Sr. Buyer
Purchasing Division
www.publicpurchase.com
Grand Prairie, Texas 75050

Late responses will be unopened and not accepted for consideration. The City of Grand Prairie is not responsible for lateness or failure of timely delivery via mail (whether delays are internal/external), carrier, etc. Please ensure you allow time to provide your response timely so that you may be properly considered. EMAIL BIDS WILL NOT BE ACCEPTED.

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CITY OF GRAND PRAIRIE
ADVERTISEMENT FOR BIDS

Sealed bids will be received via www.PublicPurchase.com until **July 16, 2021**, at 2:00 PM, and publicly opened and read via teleconference for the purchase of the following:

BID # 21119 – Pavement Crack & Joint Sealing Services

Further information and specifications may be obtained at www.publicpurchase.com, www.gptx.org, or from the Purchasing division at (972) 237-8262.

The city reserves the right to reject any or all bids and to waive formalities. The city also reserves the right to purchase these items through state awarded contracts or other intergovernmental agreements when it is in the best interest of the city.

Publish: June 23rd & June 30th, 2021

1. PROJECT SCOPE

It is the intent of this specification to obtain an annual price agreement for the purchase of pavement crack and joint sealing services for the City of Grand Prairie Street Division. These services shall include but not limited to cleaning, prepping and sealing of joints and/or cracks on both asphalt and concrete streets. This contract will begin on or after September 1, 2021.

2. PAVEMENT CRACK SEALING REQUIREMENTS

- 2.1** All cracks shall be cleaned and dry before sealing.
- 2.2** Cracks that are 1/8 inch should be routed to ¼ inch.
- 2.3** A backer rod equal to Cera-Rod (attachment A) shall be installed in cracks that are two (2) inches deep.
- 2.4** A backer rod shall be compressible, non-shrinking, non-absorbent material with a melting point higher than the temperature of the material.

3. PAVEMENT JOINT SEALING REQUIREMENTS

- 3.1** All joints shall be cleaned and dry before sealing.
- 3.2** All forging materials shall be removed before sealing.

4. PRODUCT INFORMATION

- 4.1** Material shall be Crafcro, Inc. Polyflex Type 3 (attachment B). For the purpose of describing products required by the City of Grand Prairie, a brand name or City approved compatible specification shall be used. This is in no way meant to be restrictive. The city of Grand Prairie shall have the sole responsibility of determining approved compatibles. If you are submitting an equal or compatible product you must submit a sample and the specification by **July 12, 2021**, to be approved prior to bid opening. Please email specification sheet(s) to Manuel Alonzo, malonzo@gptx.org.

5. TRAFFIC CONTROL

- 5.1** The contractor shall provide construction and maintenance signs, construction lights, barricades, channelizing devices and flagmen as required to provide for the safety of the traveling public. These items shall be in accordance with the recommended practices of the latest version of the Texas Manual on Uniform Traffic Control Devices for Streets and Highways (M.U.T.C.D.) (<http://www.txdot.gov/government/enforcement/signage/tmutcd.html>) .
- 5.2** Traffic control will be broken into the following two categories:
 - Residential: The contractor will be required to provide all traffic control on residential streets as part of the unit cost.
 - Thoroughfare: Traffic control on thoroughfares will be paid for as a separate unit cost as provided in the contract. Thoroughfare street work cannot begin prior to 8:45 am and must be clear by 4:30 pm unless prior written approval is given by city.
- 5.3** Construction signs shall not be removed from the project until approved by the city.
- 5.4** No street shall be closed except upon written authority from the city.
- 5.5** At the end of each day, the contractor shall prepare the work to the satisfaction of the city to ensure safe driving at night; and shall place temporary pavement markings and maintain it until the city has approved the final inspection.

- 5.6 Contractor shall submit a traffic control plan for approval four (4) days prior to starting work at any location. All barricades, detour signs for total closure of the street, and all maintenance of signs and removals upon completion of project shall be in accordance with Texas M.U.T.C.D.
- 5.7 All street work and closures will require a four (4) day notice to city so it may be publicized in the local paper as necessary.
- 5.8 Contractor shall provide all temporary pavement marking as needed and placed before removal of barricades for the safety of public until permanent markings are installed by owner.

6. **WORKING HOURS**

- 6.1 No street, lane, or alley closures will be allowed on weekends or holidays (listed below) and working times are 7:00 am to 4:30 pm (except on major thoroughfares) Monday through Friday; except as herein written in specifications.
- 6.2 Holidays
 - New Year's Day – January 1
 - Martin Luther King's Birthday – January 15
 - Memorial Day – Last Monday in May
 - Independence Day – July 4
 - Labor Day – First Monday in September
 - Thanksgiving – Fourth Thursday and Friday in November
 - Christmas – December 24th & 25th

7. **PAYMENT AND INVOICING**

- 7.1 **Payment** - The City will authorize payment upon satisfactory completion, inspection and acceptance by the City. Repair work found unacceptable by the City will be corrected at the Vendor's expense. All work will be performed in accordance with the outlined quote and purchase order furnished by the city. Vendors are subject to non-payment for any/all unauthorized repair/restoration work.
- 7.2 **Invoicing** - The following requirement applies to all invoices. Invoices for parts and repair services must reference a purchase order number and have attached a copy of the matching estimate(s). The invoice should include the following:
 - Purchase Order number
 - Invoice number
 - Total Hours Charged
 - Contract rates
 - Original cost for parts & cost after mark-up
 - Total amount due

8. VENDOR RESPONSIBILITIES

- 8.1 Supervision** – The Vendor shall, during all periods of contract performance, provide competent supervision of his employees to assure complete and satisfactory fulfillment of the work and the terms of this contract. The Vendor or a capable, fully authorized representative must be immediately available during all work activities to receive all special instructions from the City agent.
- 8.2 Defective Work and Damages** – The Vendor shall be wholly responsible for and shall promptly correct or restore all defective work or damages to any/all City facilities caused by its activities. Restoration and correction shall be to the complete satisfaction of the City. This shall apply to any part of a building, its appurtenances, the adjacent grounds, or any other tangible damage incurred in the performance of the Contract. Any damage will be immediately reported to the Fleet Services Manager or his agent. Failure by the Vendor to proceed promptly with corrective actions may be cause for cancellation of this contract with amount(s) necessary to correct defective work and/or damage being withheld from payments due or to become due to the Vendor.
- 8.3 Warranty** - The Vendor agrees to warrant all services performed (workmanship, parts, refinishing, etc.) for a minimum period of one (1) year from date of acceptance. Longer warranty periods will be viewed favorably.

9. VENDOR QUALIFICATIONS

- 9.1** Vendor must be engaged in the business of providing pavement crack and joint sealing services for a minimum of five years within the last seven years.
- 9.2** Vendor must be in good financial standing, not in any form of bankruptcy, current in payment of all taxes and fees such as state franchise fees. The City reserves the right to request a copy of vendor's audited or un-audited financial statement. When financial statements are requested, the City will review the vendor's audited or un-audited financial statement to this solicitation in accordance with Texas Government Code, Title 10, Subtitle D, Section 2156.007 to evaluate the sufficiency of the vendor's financial resources and ability to perform the contract or provide the service required in the solicitation. The City will be the sole judge in determining the sufficiency of the vendor's financial resources and ability to perform the contract or provide the service.
- 9.3** Vendor must provide a list of three (3) governmental or commercial references for work of a similar scope to this specification. The Vendor shall choose references that illustrate the Vendor's ability, capacity, and skill to perform the contract as specified.

10. SAFETY REQUIREMENTS

- 10.1** The Vendor must be thoroughly familiar with all prevailing safety measures pertinent to its operation and shall meet or exceed those measures. This shall include, but not necessarily be limited to Environmental Health Agency (EPA) regulations, State of Texas regulations, local city ordinances, and Occupational Safety and Health Agency (OSHA) regulations. In addition, the Vendor shall be wholly responsible for instructing its employees in these safety measures and seeing that they are fully complied with in every respect.
- 10.2** Vendor will provide all required safety signage, barricades, and flashers/strobes.
- 10.3** All employees shall follow all applicable safety procedures, have appropriate fuel safety training certification when required by federal or state law, have immediate access to all appropriate safety equipment, and shall be trained in the use of that equipment.
- 10.4** All vehicles shall have proper safety signage, be fit for their intended purpose, and meet all OSHA, and State of Texas requirements.
- 10.5** Vendors discovered working without necessary safety devices or equipment in place will be required to stop all work in progress until adequate equipment has been obtained and approved by to the Contract Administrator.
- 10.6** Any hazardous condition or any damage to City property is to be immediately reported to the City Contract Administrator.
- 10.7** Vendor will not permit unsafe practices. Examples of unsafe practices include but are not limited to: using inappropriate equipment for the job, operating or removing chains or other safety devices from equipment, traveling with an operator sitting in the back of a pickup truck with the tailgate lowered and operating equipment at excessive speed. Unsafe practices will be grounds for termination of the contract.

11. PROCUREMENT SCHEDULE

The projected schedule for this procurement is as follows:

Activity	Target Dates
Release Bid	Wednesday, June 23, 2021
Deadline for Questions	Monday, July 12, 2021
Responses to Questions	Tuesday, July 13, 2021
Deadline for Receipt of Bids	Friday, July 16, 2021
Council Date	Tuesday, August 3, 2021

12. CONTACT

Information, questions or clarification concerning the intent of this RFB should be in writing and addressed to Angi Mize at amize@gptx.org by 4:00 p.m. (CST) of the Deadline for Questions outlined in the Procurement Schedule. City of Grand Prairie's response to questions and requests for clarification will be posted to Public Purchase (www.publicpurchase.com)

13. BID EVALUATION

Award will be based on responsive bids best value as outlined in the Evaluation Criteria below. The City of Grand Prairie reserves the right to accept or reject all bids in whole or in part and waive any informality in the competitive bid process. Further, the city reserves the right to enter any contract deemed to be in the best interest of the city.

14. EVALUATION CRITERIA

The following evaluation criteria will be utilized in the selection of a vendor:

	EVALUATION CRITERIA	POINTS
1	Cost	50
2	Qualifications	25
3	References	10
4	Past Experience with the City or other municipality	10
5	Local Business Presence	5
TOTAL POSSIBLE		100

15. SUBMITTAL RESPONSE GUIDELINES

Vendor response to this Request for Bid shall include:

- 15.1** Completed and signed proposal check list.
- 15.2** Bid Pricing Form filled in with unit prices, extended prices, and total.
- 15.3** Questionnaire and References. References provided should be for similar work/projects with up to date contact information (phone and email).
- 15.4** Bid Affirmation form reviewed and signed.
- 15.5** Completed Historically Underutilized Business Questionnaire and Completed House Bill 89 Verification Form.

16. AGREEMENT TERMS AND AWARD

The term of the agreement will be for an initial one-year agreement with the option to renew for up to four (4) additional one-year periods. The price agreement shall be awarded to the vendor(s) submitting the bid(s) deemed to be in the best interest of the City. The City may award one Primary and one Secondary vendor by portions or for the entire bid. The City of Grand Prairie may award to a single vendor, multiple vendors, or use any combination that serves the best interest of the City. Successful Vendor will enter into a contract with the City for an annual agreement in accordance with the terms and conditions found within.

GUIDE SPECIFICATION FOR NON-GASSING, HEAT RESISTANT BACKER ROD: CERA-ROD™ JOINT FILLER

SECTION 07 91 23 – BACKER RODS

BACKER ROD FOR COLD-APPLIED SEALANTS

Specifier Notes: This guide specification is written according to the Construction Specifications Institute (CSI) format. The section must be carefully reviewed and edited by the architect or engineer to meet the requirements of the project. Coordinate this section with other specification sections and the drawings.

Specifier Notes: CERA-ROD is a round, flexible, continuous-length, non-absorbent, non-gassing, non-staining and non-shrinking material extruded from a cross-linked polyethylene. Compression/deflection is approximately 8 psi (55.2 KPa) at 25% deflection.

CERA-ROD is used in joints or large cracks in Portland cement or asphalt concrete. It provides the correct sealant reservoir configuration, controls joint depth, and prevents sealant run-out through the bottom of the joint. CERA-ROD also acts as a bond-breaker to prevent bottom-side sealant adhesion. CERA-ROD can be used with cold- or hot-applied sealants. It will not melt, shrink, evaporate, or stain.

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Application of closed-cell foam backer rod.

1.02 RELATED SECTIONS

Specifier Notes: Edit the list of related sections as required for the project. List other sections dealing with work directly related to this section.

- A. Section 03 00 00 - Concrete.
- B. Section 32.12.16 – Asphalt Paving.
- C. Section 32.13.13 – Concrete Paving.
- C. Section 32 13 73 – Concrete Paving Joint Sealants.

1.03 REFERENCES

- A. ASTM D 5249 Standard Specification for Backer Material for Use with Cold- and Hot-Applied Joint Sealants in Portland-Cement Concrete and Asphalt Joints

1.04 SUBMITTALS

- A. Comply with Section 01 33 00 - Submittal Procedures.
- B. Submit manufacturer's product data and application instructions.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- B. Store materials in a clean, dry area in accordance with manufacturer's instructions.

Project Name 1/28/2016

07 91 23-1

Backer Rods

- C. Protect materials during handling and application to prevent damage.

PART 2 PRODUCTS

2.01 MANUFACTURER

- A. W. R. MEADOWS[®], INC., PO Box 338, Hampshire, Illinois 60140-0338. (800) 342-5976. (847) 683-4500. Fax (847) 683-4544. Web Site www.wrmeadows.com.

2.02 MATERIALS

- A. Performance Based Specification: backer rod joint filler shall be flexible, lightweight, non-staining, polyethylene, and closed cell. It shall be a heat-resistant, chemical-resistant, ultraviolet-stable, non-absorbent, low density, compressible foam.
- B. Proprietary Based Specification: CERA-ROD backer rod by W. R. MEADOWS.

Specifier Notes: Specify the diameter of the backer rod based on pavement joint width. Select backer rod with diameter 1/8" larger than the width of the joint for joint widths up to 3/4". For joints 3/4" and larger, add 1/4" to diameter rod selection.

- 1. Diameter: [3/8 inch] [1/2 inch] [5/8 inch] [7/8 inch] [1 inch] [1 1/4 inch] 1 1/2 inch [2 inch] ([9.5 mm] [12.7 mm] [15.9 mm] [22.2 mm] [25.4 mm] [31.8 mm] [38.1 mm] [50.8 mm]).

PART 3 EXECUTION

3.01 EXAMINATION

- A. Examine areas to receive backer rod. Notify architect if areas are not acceptable. Do not begin application until unacceptable conditions have been corrected.

3.02 APPLICATION

- A. Install backer rod in accordance with manufacturer's instructions.
- B. Ensure joint or opening is clean, dry, and free of obstructions.
- C. Select backer rod with diameter 1/8" larger than the width of the joint for joint widths up to 3/4".
- D. For joints 3/4" and larger, add 1/4" to diameter rod selection.
- E. Uniformly install backer rod with a single-wheeled or three-wheeled roller
- F. Seal the concrete with compatible joint sealant.

3.03 PROTECTION

- A. Protect pavement joint sealant from traffic until fully cured.

END OF SECTION



SAFETY DATA SHEET

Page 1 of 2

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION								
Product:	CERA-ROD™ HEAT RESISTANT BACKER ROD			Part Number:	4680500			
Manufacturer:	W. R. Meadows®, Inc.			Address:	300 Industrial Drive Hampshire, Illinois 60140			
Telephone:	(847) 214-2100			In case of emergency, dial (800) 424-9300 (CHEMTREC)				
Revision Date:	9/9/2014							
Product Use:	Backer Rod							
SECTION 2: HAZARDS IDENTIFICATION/EXPOSURE LIMITS								
HMIS								
Health	0	Product is classified as non-hazardous per OSHA 1910.1200. Ceramar is						
Flammability	0	defined by OSHA as an "article," a manufactured item that is formed to a specific shape or						
Reactivity	0	design during manufacture that does not release or result in exposure to a hazardous						
Personal Protection		chemical under normal use conditions.						
SECTION 3: HAZARDS COMPONENTS								
Chemical Name:	CAS Number	% by Weight	SARA 313	Vapor Pressure (mm Hg@20°C)	LEL (@24°C)			
1. None								
Under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1966 (SARA) and 40 CFR Part 372, chemicals listed on the 313 List (40 CFR Part 373.65) are identified under the heading "SARA 313."								
SECTION 4: EMERGENCY AND FIRST AID PROCEDURES								
EYE CONTACT: Flush eyes with water to remove particles								
SKIN CONTACT: Flush with water to remove particles. Wash affected areas with soap and water if available								
INHALATION: Not expected to be an exposure route.								
INGESTION: Not expected to be an exposure source.								
SECTION 5: FIRE AND EXPLOSIVES HAZARDS								
FLASHPOINT: Not Applicable								
EXTINGUISHING MEDIA: Water fog, foam, dry chemical.								
CHEMICAL/COMBUSTION HAZARDS: Carbon monoxide, carbon dioxide, and incomplete combustion products.								
PRECAUTIONS/PERSONAL PROTECTIVE EQUIPMENT: Avoid smoke inhalation. Use appropriate respiratory protection.								
SECTION 6: ACCIDENTAL RELEASE MEASURES								
SPILL OR LEAK PROCEDURES: Not applicable. Product is a solid.								
SECTION 7: HANDLING AND STORAGE								
SAFE HANDLING PROCEDURES: No special requirements.								
SAFE STORAGE: None.								
SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION								
Chemical Name:	PEL	OSHA PEL/CEILING	PEL/STEL	SKIN	TLV	ACGIH TLV/CEILING	TLV/STEL	SKIN
1. None								
ENGINEERING CONTROLS: None required under normal use conditions.								
PERSONAL PROTECTIVE EQUIPMENT: None required under normal conditions of use.								
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES								
BOILING POINT: N/A	VAPOR DENSITY: N/A		% VOLATILE BY VOLUME: N/A					
EVAPORATION RATE: N/A	pH LEVEL: N/A		% VOLATILE BY WEIGHT: N/A					
WEIGHT PER GALLON: N/A	PRODUCT APPEARANCE: Red solid		VOC CONTENT: N/A					
SECTION 10: STABILITY/REACTIVITY								
STABILITY: Stable.		HAZARDOUS POLYMERIZATION: Will not occur.						
CONDITIONS AND MATERIALS TO AVOID: None recognized.								
HAZARDOUS DECOMPOSITION PRODUCTS: None recognized.								
SECTION 11: TOXICOLOGICAL INFORMATION								
EYE CONTACT: Direct contact may cause mechanical irritation.								
SKIN CONTACT: Direct contact may cause slight mechanical skin irritation.								
INHALATION: Not anticipated to be an exposure route.								
INGESTION: Not anticipated to be an exposure route.								
SIGNS AND SYMPTOMS: Symptoms of eye irritation include tearing, reddening, and swelling. Symptoms of skin irritation include redness and swelling. Gastrointestinal irritation symptoms include nausea, vomiting, and abdominal discomfort.								
AGGRAVATED MEDICAL CONDITIONS: None recognized.								
OTHER HEALTH EFFECTS: None recognized								

SAFETY DATA SHEET

Date of Preparation: 9/9/14	Page 2 of 2	4680500
SECTION 12: ECOLOGICAL INFORMATION		
ECOTOXICITY: N/E	DEGRADABILITY: N/E	BIOACCUMULATIVE POTENTIAL: N/E
SOIL MOBILITY: N/E	OTHER ADVERSE EFFECTS: None Recognized	
SECTION 13: WASTE DISPOSAL INFORMATION		
WASTE DISPOSAL INFORMATION: Product is classified as a non-hazardous waste.		
SECTION 14: TRANSPORTATION INFORMATION		
HAZARDOUS/NON-HAZARDOUS MATERIAL: Not regulated by DOT.		
UN NUMBER: None	HAZARD CLASS: N/A	PACKING GROUP: N/A
UN PROPER SHIPPING NAME: N/A		
ENVIRONMENTAL HAZARDS: None recognized.		
BULK TRANSPORTATION INFORMATION: None.		
SPECIAL PRECAUTIONS: None.		
SECTION 15: REGULATORY INFORMATION		
OTHER REGULATORY CONSIDERATIONS: None recognized.		
SECTION 16: OTHER INFORMATION		
PREPARATION DATE:	9/9/2014	
PREPARED BY:	Dave Carey	

The information contained herein is based on the data available to us and is believed to be correct. However, we make no warranty, expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for injury from the use of this product described herein.



420 N. Roosevelt Ave. • Chandler AZ 85226
1-800-526-8242 • (602) 276-0406 • FAX (480) 961-0513
www.crafco.com

PRODUCT DATA SHEET

POLYFLEX TYPE 3

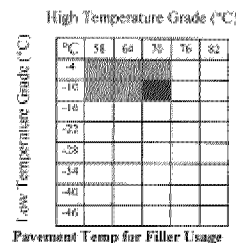
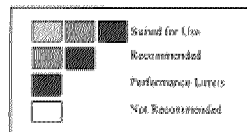
PART NO. 34521

MARCH 2009

READ BEFORE USING THIS PRODUCT

GENERAL Crafco PolyFlex Type 3 is a hot-applied, asphalt based product used to fill cracks and joints in asphalt and portland cement concrete pavements in warm to hot climates. PolyFlex Type 3 is supplied in solid form which when melted and properly applied forms a highly adhesive and flexible compound that resists cracking in the winter and resists flow and pick-up at summer temperatures. Polyflex Type 3 is used in highway, street, airfield and parking lot pavements and is applied to pavement cracks using either pressure feed melter applicators or pour pots. At application temperature, PolyFlex Type 3 is a medium viscosity product which flows and penetrates cracks. PolyFlex Type 3 is formulated as an economical yet effective pavement maintenance crack filler product. Compared to products based on reclaimed rubber, PolyFlex Type 3 offers lower viscosity for easier application, improved summer temperature pick-up resistance, quicker set-up times and improved low temperature flexibility. Polyflex Type 3 has been a quality Crafco product for 20 years. Several states have adopted specifications based on the performance of Polyflex Type 3. VOC = 0 g/l.

USAGE GUIDELINES PolyFlex Type 3 pavement temperature performance limits are 70-110 for crack filling. Usage recommendations are shown in Crafco pavement temperature grade charts shown at the right. Refer to Crafco Product Selection Procedures to determine sealant or filler use and pavement temperature grades.



SPECIFICATION CONFORMANCE The Crafco recommended specification limits for PolyFlex Type 3 when heated in accordance with ASTM D5078 to the maximum heating temperature are as follows:

Test	Recommended Specification
Cone Penetration (ASTM D5329)	20-40
Resilience (ASTM D5329)	30% min.
Softening Point (ASTM D36)	210°F (99°C) min.
Ductility, 77°F (25°C) (ASTM D113)	30 cm min.
Flexibility (ASTM D3111 Modified)	Pass at 30°F (-1°C)
Flow 140°F (60°C) (ASTM D5329)	3 mm max
Brookfield Viscosity, 400°F (204°C) (ASTM D2669)	100 Poise max.
Asphalt Compatibility (ASTM D5329)	Pass
Bitumen Content (ASTM D4)	60% min
Tensile Adhesion (ASTM D5329)	400% min.
Maximum Heating Temperature	400°F (204°C)
Minimum Application Temperature	380°F (193°C)

INSTALLATION The unit weight of Crafco PolyFlex Type 3 is 10.0 lbs. per gallon (1.20 kg/L) at 60°F (15.5°C). Prior to use, the user must read and follow Installation Instructions for Hot-Applied RoadSaver, PolyFlex, Parking Lot and Asphalt Rubber Products to verify proper product selection, heating methods, pavement preparation procedures, application geometry, usage precautions and safety procedures. These instructions are provided with each pallet of product.

PACKAGING Packaging consists of individual boxes of product which are palletized into shipping units. Boxes contain a non-adherent film which permits easy removal of the product. Each pallet contains 72 boxes which are stacked in six layers of 12 boxes per layer. The weight of product in each box does not exceed 40 lbs. (18kg) and pallet weights do not exceed 2,880 lbs. (1310kg). Pallets of product are weighed and product is sold by the net weight of product. Product boxes are manufactured from double wall kraft board producing a minimum bursting test certification of 350 psi (241 N/cm²) and using water resistant adhesives. Boxes use tape closure and do not contain any staples. Boxes are labeled with the product name, part number, lot number, specification conformance, application temperatures and safety instructions. Palletized units are protected from the weather using a three mil thick plastic bag, a weather and moisture resistant cap sheet and a minimum of two layers of six month u.v. protected stretch wrap. Pallets are labeled with the product part number, lot number and net weight. Installation Instructions are provided with each pallet in a weather resistant enclosure.

WARRANTY Crafco, Inc. warrants that Crafco products meet applicable ASTM, AASHTO, Federal or State specifications at time of shipment. Techniques used for the preparation of the cracks and joints prior to sealing or filling are beyond our control as are the use and application of the products; therefore, Crafco shall not be responsible for improperly applied or misused products. Remedies against Crafco, Inc., as agreed to by Crafco, are limited to replacing nonconforming product or refund (full or partial) of purchase price from Crafco, Inc. All claims for breach of this warranty must be made within three (3) months of the date of use or twelve (12) months from the date of delivery by Crafco, Inc. whichever is earlier. There shall be no other warranties expressed or implied. For optimum performance, follow Crafco recommendations for product installation.

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SOLICITATION STANDARD TERMS AND CONDITIONS

1. **INSTRUCTIONS:** These standard terms apply to all solicitations.
2. **BEST INTEREST:** The City reserves the right to reject any or all responses and to waive formalities. The City also reserve the right to purchase through State awarded contracts or other intergovernmental agreements when it is in the best interest of the City.
3. **PRICING:** Price(s) quoted must be held firm for ninety (90) days to allow for evaluation unless otherwise noted in this document.
4. **SILENCE OF SPECIFICATION:** The apparent silence of these specifications as to any detail or to the apparent omission of a detailed description concerning any point, shall be regarded as meaning that only the best commercial practices are to prevail. All interpretations of these specifications shall be made based on this statement.
5. **F.O.B.:** All shipping shall be F.O.B. Destination.
6. **COOPERATIVE/INTERLOCAL PURCHASING:** If the vendor checked yes on the submittal affirmation form to allow for Interlocal Purchasing the following will apply: Government Entities utilizing Inter-Governmental Contracts with the City of Grand Prairie will be eligible, but not obligated, to purchase goods and services under this contract (s) awarded as a result of this solicitation. All purchases by Governmental Entities other than the City of Grand Prairie will be billed directly to that Governmental Entity and paid by that Governmental Entity. The City of Grand Prairie will not be responsible for another Governmental Entity's debts. Each Governmental Entity will order their goods and services as needed.
7. **SPLIT AWARD:** The City of Grand Prairie reserves the right to award a separate contract to separate vendors for each item/group or to award one contract for the entire bid.
8. **WITHDRAWAL OF RESPONSE TO SOLICITATION:** A response may not be withdrawn or cancelled by the vendor for a period of ninety (90) days following the date designated for the receipt without approval by the City.
9. **ERROR-QUANTITY:** Submittals must be made on units of quantity specified, extend, and show total(s). In the event of discrepancies in extension, the unit price shall govern.
10. **LATE SUBMITTALS:** Submittals received after the submission deadline shall be returned unopened and will be considered void and unacceptable. The City of Grand Prairie is not responsible for lateness from any carrier for any reason.
11. **TAXES:** The City of Grand Prairie is exempt from Federal Manufacture's Excise, and State Sales taxes. **TAX MUST NOT BE INCLUDED IN PRICING.** Tax exemption certificates will be executed by the City and furnished upon request.
12. **ADDENDA:** Any interpretations, corrections or changes to these specifications will be made by addenda. Sole issuing authority of the addenda shall be vested in the City of Grand Prairie Purchasing Department. Addenda will be mailed to all who are known to have received a copy of this solicitation. It is the responsibility of proposers to ensure they have received and understand any issued addenda.
13. **PROTEST:** Protests shall be submitted in writing and filed with the Purchasing Division no less than three business days prior to the City Council meeting at which the award appears on the agenda. A written response will be prepared by the Purchasing Manager in consultation with the end user department and City Attorney in accordance with the City Purchasing Manual. If the protesting vendor does not agree with the staff recommendation, they may appeal to the City Council. Protesting vendors must contact the City Secretary in order to be acknowledged and heard by City Council at the first available Council meeting.
14. **PAYMENT TERMS:** Payment terms are Net 30 unless otherwise specified by the City in this document.
15. **PATENT RIGHTS:** The vendor agrees to indemnify and hold the City harmless from any claim involving patent right infringement or copyrights on goods supplied.
16. **FUNDING:** The City of Grand Prairie is a home-rule municipal corporation operated and funded on an annual basis for Oct. 1 to Sept. 30. The City reserves the right to terminate, without liability to the City, any contract for which funding is not available.
17. **ASSIGNMENT:** Vendor shall not sell, assign, transfer, or convey this contract in whole or in part, without the prior written consent of the City.
18. **VENUE:** This agreement will be governed and construed according to the laws of the State of Texas.
19. **RIGHT OF REVIEW:** Vendor covenants and agrees that the City, upon reasonable notice to vendor, may review any of the work performed by vendor under this Contract.
20. **DELIVERY TIMES:** Deliveries will be acceptable only during normal working hours at the designated City Municipal Facility.
21. **STANDARD WARRANTY:** Standard manufacturer's warranty shall be provided and submitted to the City of Grand Prairie upon request.
22. **PACKAGING:** Unless otherwise indicated, items will be new, unused, and in first class condition in containers suitable for damage-free shipment and storage.
23. **ORDERS AND INVOICING:** A Purchase Order Number is required for all purchases. All invoices must identify the purchase order number, include the bid unit pricing by item, identify the ordering department/user, and include contact phone and email.

- 24. CONFLICT OF INTEREST:** The successful vendor hereby covenants and agrees that during the Contract period that vendor and any of vendor's associates and employees will have no interest nor acquire any interest, either direct or indirect, which will conflict in any manner with the performance of the services called for under this Contract. All activities, investigations and other efforts made by vendor pursuant to this Contract will be conducted by employees or associates of vendor. Vendor further covenants and agrees that it understands that the Code of Ordinances of the City of Grand Prairie prohibits any officer or employee of the City from having any financial interest, either direct or indirect, in any business transaction with the City. Any violation of this paragraph which occurred with the actual or constructive knowledge of vendor will render this contract voidable by the City.
- a. **FORM CIQ** – is required when a conflict exists in accordance with Chapter 176, Local Government Code, by a vendor who has a business relationship as defined by Section 176.001(1-a) with a local governmental entity and the vendor meets requirements under Section 176.006(a). By law this questionnaire must be filed with the records administrator of the local governmental entity not later than the 7th business day after the date the vendor becomes aware of facts that require the statement to be filed. See Section 176.006(a-1), Local Government Code. A vendor commits an offense if the vendor knowingly violates Section 176.006, Local Government Code. An offense under this section is a misdemeanor. This form may be obtained from the Texas Ethic Commission's website.
- 25. CONFIDENTIAL WORK:** Any reports, designs, plan, information, project evaluations, data or any other documentation given to or prepared or assembled by vendor under this contract shall be kept confidential and may not be made available to any individual or organization by vendor without the prior written approval of the City except as may be required by law.
- 26. WARRANTY, HOLD HARMLESS, AND INDEMNITY:** Vendor warrants that the commodities it delivers to the City shall be delivered in a good and workmanlike manner, and that any items delivered to the City under this contract will be fit for the particular purpose for which it was furnished. Vendor shall defend, indemnify, and hold the City whole and harmless against any and all claims for damages, costs, and expenses to persons or property that may arise out of, or be occasioned by, the execution or performance of this Contract or any of vendor's activities or any act of commission or omission related to this Contract of any representative, agent, customer, employee, sub-vendor or invitee of vendor or any representative, agent, employee, or servant of the City. If an item is covered by a manufacturer's warranty, it is the responsibility of the vendor to obtain the information for City and to get the manufacturer to honor the warranty.
- 27. PROPRIETARY INFORMATION:** Any material or information that is considered proprietary in nature must be clearly marked as such and will be treated as confidential by the City of Grand Prairie to the extent permitted under the Open Records Act.
- 28. WAIVER OF ATTORNEYS FEES:** Vendor and City expressly covenant and agree that in the event of any litigation arising between the parties to this contract, each party shall be solely responsible for payment of its attorneys and that in no event shall either party be responsible for the other party's attorney's fees regardless of the outcome of the litigation.
- 29. CHANGE ORDERS:** No Oral statement of any person shall modify or otherwise change or affect the terms, conditions, or specifications stated in the resulting contract. All change orders to the contract will be made in writing by the City of Grand Prairie.
- 30. TERMINATION:** The City may, at its option and without prejudice to any other remedy to which it may be entitled at law or in equity, terminate the right for vendor to accept further orders under this Contract, in whole or in part, by giving at least thirty (30) days prior written notice thereof to vendor with the understanding that no further orders may be accepted after the date specified in such notice. The City shall equitably compensate vendor, in accordance with the terms of this Contract for the commodities properly ordered prior to the date specified in such notice following inspection and acceptance of same by the City. Vendor shall not, however, be entitled to lost or anticipated profits should the City choose to exercise its option to terminate.
- 31. TERMINATION FOR DEFAULT:** The CITY reserves the right to enforce the performance of this purchase order in any manner prescribed by law or deemed to be in the best interest of the CITY in the event of breach or default. The CITY reserves the right to terminate the purchase order immediately in the event the VENDOR fails to: (1) meet delivery schedules, or (2) otherwise perform in accordance with this contract and incorporated documents. Breach of contract or default authorizes the CITY to award to another VENDOR, purchase elsewhere and charge the full increase in cost and handling to the defaulting VENDOR.
- 32. PERFORMANCE OF WORK:** Vendor or vendor's associates and employees shall perform all the work called for in this Contract. Vendor hereby covenants and agrees that all of vendor's associates and employees who work on this project shall be fully qualified to undertake same and competent to do the work described in this Contract, and the services performed shall be performed in a good and workmanlike manner, and that the finished product shall be fit for the particular use(s) contemplated by this agreement.
- 33. OWNERSHIP OF DOCUMENTS:** VENDOR acknowledges that City owns all notes, reports, or other documents, intellectual property or documentation produced by the vendor pursuant to this agreement or in connection with its work which are not otherwise public records. Vendor acknowledges that City shall have copyright privileges to those notes, reports, documents, processes and information. Vendor shall provide City a copy of all such notes, reports, documents, and information (except to the extent that they contain confidential information about third parties) at City expense upon written request.

34. **PRICE REDETERMINATION:** Price redetermination shall only be considered by the City forty-five (45) days prior to the anniversary date of the initial contract award and subsequent renewals. Price redetermination requests must be substantiated in writing. The City of Grand Prairie reserves the right to reject the request when it is deemed to be in the best interest of the City.
35. **DRUG FREE WORKPLACE:** VENDOR hereby covenants and agrees that during the contract period that VENDOR and any of VENDOR's associates and employees shall follow the CITY'S drug free workplace policy.
36. **INSPECTION:** All goods and services will be subject to inspection and testing by CITY prior to acceptance. Goods rejected and goods supplied in excess of quantities ordered may be returned to the VENDOR at its expense. If any of the goods or services are found at any time to be defective in material or workmanship, or otherwise not in conformity with the requirements of this purchase order, including any applicable drawings and specifications, then CITY, in addition to such other rights and remedies it may have by contract or by law or equity, at its sole discretion may reject and return such goods at VENDOR's expense, require VENDOR to inspect the goods and remove nonconforming goods and/or require VENDOR to replace nonconforming goods or services with conforming goods or services.
37. **PACKAGING:** All goods must be packaged in the manner as specified by CITY and shipped in the manner and by the route and carrier designated by CITY. If CITY does not specify the way the goods must be packaged, VENDOR shall package the goods to avoid any damage in transit. If CITY does not specify the manner of shipment, route or carrier, VENDOR shall ship the goods at the lowest possible transportation rates, consistent with VENDOR's obligation to meet the delivery schedule set forth in this Order.
38. **AUDIT:** the CITY reserves the right to audit the records and performance of contractor during the contract and for three years thereafter.
39. **INSURANCE:** Prior to the commencement of work under this Contract, vendor shall obtain and shall continue to maintain in full force and effect during the term of this Contract any insurance required by Law and any additional insurance that may be required pursuant to the specification. Performance under the contract will not start until this obligation has been met. Carrier must be authorized to do business in Texas rated "A" or better in the current Best Key Rating Guide. All policies shall be of the "occurrence type" and the city of Grand Prairie shall be listed as an additional insured (to the extent Contractor/City are indemnified pursuant to the indemnity provisions herein) on all certificates of insurance. Additional Insured Clauses does not apply to Workers' Compensation and Employer's Liability. A waiver of Subrogation Clause, naming the city of Grand Prairie "shall be included" on all types of coverages.
- TYPE AMOUNT
- a. Workers' Compensation Statutory
 - b. Employer's Liability \$1,000,000
 - c. Comprehensive General Liability \$1,000,000 (Combined Single Limit)
 - d. Premises Operations
 - e. Products Operations Hazard
 - f. Contractual Insurance Comprehensive Automobile Liability \$1,000,000 (Combined Single Limit)
40. **HB 1295 FORM:** At time of contract execution vendor must provide a signed HB 1295 Form received directly from the State of Texas.
https://www.ethics.state.tx.us/whatsnew/elf_info_form1295.htm.
41. **CONTRACT EXECUTION AND START DATE:** The awarded vendor will have ten calendar days after receiving the notice of award to return the executed contract, certificate of insurance, HB 1295 form, and vendor setup packet (when applicable). The CITY reserves the right to terminate the contract immediately, place the VENDOR on the City's debarred vendor list, and award to another VENDOR in the event the VENDOR fails to return the required documents by the indicated time. After documentation is received by the City a notice to proceed or purchase order will be issued. The vendor will have up to five calendar days to begin performance under this contract, unless otherwise agreed in writing between the CITY and VENDOR.
42. **STORMWATER REQUIREMENTS:** The Contractor shall implement Best Management Practices (BMPs) and good housekeeping measures to prevent stormwater pollution in accordance with the current City of Grand Prairie Stormwater Discharges Ordinance (Article XXIII, Section 13).
43. **LOCAL PREFERENCE:** Section 271.9051 of the Texas Local Government Code authorizes a municipality, when considering competitive sealed bids when the bid evaluation is setup to award to the lowest responsible bidder, to enter into a contract for certain purchases with a bidder whose principal place of business is in the municipality and whose bid is within five percent of the lowest bid if the lowest bid is from a business outside the municipality and contracting with the local bidder would provide the best combination price and other economic benefits to the municipality. *Application for Local Bidder Preference must be submitted with bid to be considered by the City of Grand Prairie.* If your principal place of business is within the Grand Prairie city limits and you want to apply for local preference consideration, then you must provide a tax certificate for the most current year marked PAID, included with your Application for Local Bidder Preference.

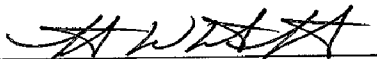
SUBMITTAL FORMS

SUBMITTAL CHECK LIST – Company Name Curteo, Inc.

Interested parties MUST submit responses online through www.publicpurchase.com. Response must include all the following items listed below for consideration. Please contact vendorsupport@publicpurchase.com for any issues in responding. The submission should be in the order stated below.

DOCUMENT	ATTACHED
1 Submittal Check List	☒
2 Bid Pricing	☒
3 Questionnaire & References	☒
4 Submittal Affirmation	☒
5 HUB Questionnaire and House Bill 89 Verification	☒

By my signature I affirm all items as listed above have been completed and submitted as part of my firm's proposal.


Authorized Signature

PRESIDENT
Title

Curtis Wheatcraft
Print/Type Name

7-8-21
Date

QUESTIONNAIRE

All questions should be answered clearly and completely. Marketing materials WILL NOT be accepted in lieu of this questionnaire. This questionnaire will assist the City in understanding your submittal and will be used in the evaluation process and therefore it is critical that the questionnaire be completed and submitted with your submittal.

GENERAL CONTACT INFORMATION					
Primary Contact:	Curtis Wheatcraft			Title:	President
Vendor Name:	Curtco, Inc				
Vendor Address:	6133 Hwy 27				
City:	Center Point	State:	Tx	Zip:	78010
Phone:	(830) 634-3434		Fax:	(830) 634-3435	
Email:	c.wheatcraft@aol.com			Tax ID:	74-2728472

Provide at Least 3 References, including contact name, agency name, title, phone number and email of those you have provided similar services in the past three years. This information will be used in the evaluation of your submittal.

REFERENCE #1		
Reference Name:	Manuel Alonzo	Title: Operations Supervisor
Reference Organization:	City of Grand Prairie	
Project Title:	Crack Sealing	
Email:	malonzo@cityofgp.org	Phone: (972) 237-2530

REFERENCE #2		
Reference Name:	Phillip Thomas	Title: Street Superintendent
Reference Organization:	City of Farmers Branch	
Project Title:	Crack Sealing	
Email:	phillip.thomas@farmersbranchtx.gov	Phone: (972) 919-2615

REFERENCE #3		
Reference Name:	James Brown	Title: Street Dept. Field Sup.
Reference Organization:	City of Duncanville	
Project Title:		
Email:	jbrown@duncanville.com	Phone: (972) 780-4947

EXPERIENCE			
How many years has your company been involved in providing these types of commodities or services?			
Years:	27	Months:	-
Do you have a corporate office, branch office or warehouse located in the Grand Prairie city limits? (5 points)	Yes ☐	No ☒	
Address if different from above:			
Please list all government entities your firm has worked with in the past three (3) years:			
City of Grand Prairie	City of Farmers Branch		
City of Denton	City of Fort Worth		
City of Frisco	City of Hickory Creek		
City of Weatherford	City of Plano		
City of Bedford	City of Mansfield		
Collin County	City of Duncanville		

BILLING			
What is the timeframe an invoice should be expected after services/commodities are delivered?			
Days	10	Weeks	Months
Briefly explain how your business maintains and executes a service schedule for various locations:			

LEGAL INFORMATION			
Has your firm failed to complete a contract?	Yes		No ☒
If yes, please identify the project and date:			
N/A			
Do you have any litigation issues pending in the last three (3) years?	Yes		No ☒
If yes, please explain:			
N/A			
Are there any judgements, claims, arbitration proceedings, or suits pending or outstanding against your organization or officers?	Yes		No ☒
If yes, please explain:			
N/A			

SUBMITTAL AFFIRMATION FORM

FORM AND ADDENDA ACKNOWLEDGEMENT

This will acknowledge your submittal contains all items and receipt of the following addenda which are part of the solicitation documents:

All items identified in Submittal Checklist have been submitted

Addendum No. _____

INTERLOCAL PURCHASING

Should other Government entities decide to participate in this contract, would you, the Vendor, agree that all terms, conditions, specifications and pricing would apply:

Yes ☒

No ☐

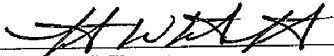
OTHER CONDITIONS

The undersigned agrees to the following:

- A. Agrees that the submittal is complete and all required information/forms were submitted.
- B. Agrees that the bid package was fully reviewed and fully understands the requirements.
- C. Agrees to the Terms & Conditions as included in this bid packet and have noted any exceptions.
- D. Agrees that their submittal shall be good and may not be withdrawn for a period of 90 calendar days after the scheduled closing time.
- E. Will supply all required insurance, and execute contract within the time stated on the notice of award.
- F. Affirms that the submittal was not prepared in collusion with any other firm and the contents of this submittal have not been communicated by the undersigned or any agent with any other person engaged in this type of

SUBMITTAL CERTIFICATION

By my signature I affirm that I am duly authorized to execute this proposal as an offer to contract and in compliance with this solicitation, the undersigned firm having examined the specifications, and being familiar with the conditions to be met, hereby submits a proposal for consideration of being selected as COGP 's provider for said services; and agrees to enter into negotiations if selected as a finalist for said services.


Authorized Signature

PRES.
Title

Curtis Wheatcraft
Print/Type Name

7.8.21
Date

HISTORICALLY UNDERUTILIZED BUSINESS (HUB) QUESTIONNAIRE

A Historically Underutilized Business (HUB) is a for-profit entity that has not exceeded the size standards prescribed by 34 TAC §20.23, and has its principal place of business in Texas, and is at least 51% owned by an Asian Pacific American, Black American, Hispanic American, Native American, American woman and/or Service Disabled Veteran, who reside in Texas and actively participate in the control, operations and management of the entity's affairs.

1. Is your business a certified historically underutilized business (HUB) or Disadvantaged Business Enterprise (DBE)?

☒ No

☐ Yes; and certifying agency: _____

If you answered in the affirmative, please include a copy of my certification as an attachment to your proposal.

HOUSE BILL 89 VERIFICATION

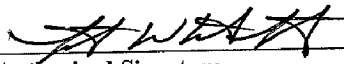
I hereby verify that the company named in this submittal, under the provisions of Subtitle F, Title 10, Government Code Chapter 2270:

1. Does not boycott Israel currently; and
2. Will not boycott Israel during the term of the contract.

Pursuant to Section 2270.01, Texas Government Code:

1. "Boycott Israel" means refusing to deal with, terminating business activities with, or otherwise taking any action that is intended to penalize, inflict economic harm on, or limit commercial relations specifically with Israel, or with a person or entity doing business in Israel or in an Israel-controlled territory, but does not include an action made for ordinary business purposes; and
2. "Company" means a for-profit sole proprietorship, organization, association, corporation, partnership, joint venture, limited partnership, limited liability partnership, or any limited liability company, including a wholly owned subsidiary, majority-owned subsidiary, parent company or affiliate of those entities or business associations that exist to make a profit.

By my signature I affirm the information provided in this submittal is accurate to the best of my knowledge.


Authorized Signature

PRES.
Title

Curtis Wheatcraft
Print/Type Name

7-8-21
Date

Pavement Crack & Joint Sealing Service

BID SHEET ~ RFB #21119

All prices shall include any and all delivery fees,
including but not limited to freight, fuel surcharge,
and environmental fees

Vendor:

Contact:

Email:

Phone:

City/State:

CARTCO INC
CURTIS WHEATERAFT
cwheateraft@aol.com
830-634-3434
CENTER POINT, TX 78010

DESCRIPTION		QTY	UOM	UNIT PRICE	EXTENDED
1	Routing and Seal Crack Concrete	500,000	LF	\$1.40	\$700,000. ⁰⁰
2	Routing and Seal Crack Asphalt	500,000	LF	\$1.40	\$700,000. ⁰⁰
3	Joint Sealing Services	500,000	LF	\$1.40	\$700,000. ⁰⁰
4	Crack Sealing Services	500,000	LF	\$6.42	\$210,000. ⁰⁰
5	Dust Control	500,000	LF	\$1.00	\$500,000. ⁰⁰
TOTAL					\$2,810,000.⁰⁰

BID PRICING

DESCRIPTION		QTY	LOM	UNIT PRICE	EXTENDED
1	Crack Sealing Services	900,000	LF	N/A	N/A
2	Joint Sealing Services	138,000	LF	N/A	N/A
TOTAL					N/A

By my signature I affirm all items as listed above have been completed and submitted as part of my firm's proposal.

Curtco, Inc
Vendor Name

[Signature]
Authorized Signature

Curtis Wheatcraft
Print/Type Name

PRES.
Title

7-8-21
Date

CERTIFICATE OF INTERESTED PARTIES

FORM 1295

1 of 1

Complete Nos. 1 - 4 and 6 if there are interested parties.
Complete Nos. 1, 2, 3, 5, and 6 if there are no interested parties.

OFFICE USE ONLY CERTIFICATION OF FILING

Certificate Number:
2016-109976

Date Filed:
09/09/2016

Date Acknowledged:

1 Name of business entity filing form, and the city, state and country of the business entity's place of business.

Curtco, Inc
Center Point, TX United States

2 Name of governmental entity or state agency that is a party to the contract for which the form is being filed.

City of Grand Prairie

3 Provide the identification number used by the governmental entity or state agency to track or identify the contract, and provide a description of the services, goods, or other property to be provided under the contract.

RFB#16133
Crack and Joint Sealing Services

4	Name of Interested Party	City, State, Country (place of business)	Nature of interest (check applicable)	
			Controlling	Intermediary
	Wheatcraft, Curtis	Center Point, TX United States	X	

5 Check only if there is NO Interested Party. ☐

6 AFFIDAVIT

I swear, or affirm, under penalty of perjury, that the above disclosure is true and correct.


Signature of authorized agent of contracting business entity

AFFIX NOTARY STAMP / SEAL ABOVE

Sworn to and subscribed before me, by the said Curtis Wheatcraft, this the 9th day of September, 20 16, to certify which, witness my hand and seal of office.


Signature of officer administering oath

Carla Edmiaston
Printed name of officer administering oath

Office Manager
Title of officer administering oath



CURTIN1

OP ID: KH

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

03/12/2021

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Insurance Concepts of San Antonio, Inc. 11120 Wurzbach, Suite 201 San Antonio, TX 78230-2426 Lana Sund	210-691-0067 CONTACT NAME: Kim Huoni PHONE (A/C, No, Ext): 210-691-0067 FAX (A/C, No): 210-691-2629 E-MAIL ADDRESS: kim@insuranceconcepts-sa.com														
INSURED Curtco, Inc. 6133 Hwy 27 Center Point, TX 78010-5596	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 80%;">INSURER(S) AFFORDING COVERAGE</th> <th style="width: 20%;">NAIC #</th> </tr> </thead> <tbody> <tr> <td>INSURER A: Addison Insurance Company</td> <td>10324</td> </tr> <tr> <td>INSURER B: United Fire Lloyds</td> <td>43559</td> </tr> <tr> <td>INSURER C: Texas Mutual Insurance Company</td> <td>22945</td> </tr> <tr> <td>INSURER D:</td> <td></td> </tr> <tr> <td>INSURER E:</td> <td></td> </tr> <tr> <td>INSURER F:</td> <td></td> </tr> </tbody> </table>	INSURER(S) AFFORDING COVERAGE	NAIC #	INSURER A: Addison Insurance Company	10324	INSURER B: United Fire Lloyds	43559	INSURER C: Texas Mutual Insurance Company	22945	INSURER D:		INSURER E:		INSURER F:	
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INSURER E:															
INSURER F:															

COVERAGES**CERTIFICATE NUMBER:****REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR	LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
B	X	COMMERCIAL GENERAL LIABILITY						
		CLAIMS-MADE ☒ OCCUR	X	X	60424006	01/01/2021	01/01/2022	
		GEN'L AGGREGATE LIMIT APPLIES PER:						
		POLICY ☒ PROJECT ☐ LOC						
		OTHER:						
								EACH OCCURRENCE \$ 1,000,000
								DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000
								MED EXP (Any one person) \$ 10,000
								PERSONAL & ADV INJURY \$ 1,000,000
								GENERAL AGGREGATE \$ 2,000,000
								PRODUCTS - COMP/OP AGG \$ 2,000,000
A		AUTOMOBILE LIABILITY						
	X	ANY AUTO OWNED AUTOS ONLY ☐ SCHEDULED AUTOS ☐	X	X	12308290	01/01/2021	01/01/2022	
		HIRED AUTOS ONLY ☐ NON-OWNED AUTOS ONLY ☐						
								COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000
								BODILY INJURY (Per person) \$
								BODILY INJURY (Per accident) \$
								PROPERTY DAMAGE (Per accident) \$
B		UMBRELLA LIAB ☒ EXCESS LIAB ☐						
		OCCUR CLAIMS-MADE			60424006	01/01/2021	01/01/2022	
		DED RETENTION \$						
								EACH OCCURRENCE \$ 5,000,000
								AGGREGATE \$ 5,000,000
C		WORKERS COMPENSATION AND EMPLOYERS' LIABILITY						
		ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) ☐ Y / N ☐ N / A		X	0001152369	01/01/2021	01/01/2022	
		If yes, describe under DESCRIPTION OF OPERATIONS below						
								X PER STATUTE ☐ OTH-ER ☐
								E.L. EACH ACCIDENT \$ 1,000,000
								E.L. DISEASE - EA EMPLOYEE \$ 1,000,000
								E.L. DISEASE - POLICY LIMIT \$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Re: RFB #16133 - Crack & Joint Sealing Service
 See attached endorsements that provide automatic Additional Insured and Waiver of Subrogation provisions when required by written and executed contract: CG 7208 7/17, CA 7109 1/17 and WC 42 03 04 B.

CERTIFICATE HOLDER**CANCELLATION**

GRANPR1 City of Grand Prairie PO Box 534045 Grand Prairie, TX 75053-4045	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE
--	---

**TEXAS - EXTENDED ULTRA LIABILITY PLUS ENDORSEMENT
COMMERCIAL GENERAL LIABILITY EXTENSION ENDORSEMENT SUMMARY OF COVERAGES**

This is a summary of the various additional coverages and coverage modifications provided by this endorsement. No coverage is provided by this summary.

- * Extended Property Damage
- * Expanded Fire Legal Liability to include Explosion, Lightning and Sprinkler Leakage
- * Coverage for non-owned watercraft is extended to 51 feet in length
- * Property Damage – Borrowed Equipment
- * Property Damage Liability – Elevators
- * Coverage D – Voluntary Property Damage Coverage
\$5,000 Occurrence with a \$10,000 Aggregate
- * Coverage E – Care, Custody and Control Property Damage Coverage
\$25,000 Occurrence with a \$100,000 Aggregate – \$500 Deductible
- * Coverage F – Electronic Data Liability Coverage – \$50,000
- * Coverage G – Product Recall Expense
\$25,000 Each Recall Limit with a \$50,000 Aggregate – \$1,000 Deductible
- * Coverage H – Water Damage Legal Liability – \$25,000
- * Coverage I – Designated Operations Covered by a Consolidated (Wrap-Up) Insurance Program – Limited Coverage
- * Increase in Supplementary Payments: Bail Bonds to \$1,000
- * Increase in Supplementary Payments: Loss of Earnings to \$500
- * For newly formed or acquired organizations – extend the reporting requirement to 180 days
- * Broadened Named Insured
- * Automatic Additional Insured – Owners, Lessees or Contractors – Automatic Status When Required in Construction Agreement With You – Including Upstream Parties
- * Contractors Blanket Additional Insured – Products – Completed Operations Coverage – Including Upstream Parties
- * Automatic Additional Insured – Vendors
- * Automatic Additional Insured – Lessor of Leased Equipment Automatic Status When Required in Lease Agreement With You
- * Automatic Additional Insured – Managers or Lessor of Premises
- * Additional Insured – Engineers, Architects or Surveyors Not Engaged by the Named Insured
- * Additional Insured – State or Governmental Agency or Subdivision or Political Subdivision – Permits or Authorizations
- * Additional Insured – Consolidated Insurance Program (Wrap-Up) Off-Premises Operations Only – Owners, Lessees or Contractors Automatic Status When Required in Construction Agreement With You
- * Additional Insured – Employee Injury to Another Employee
- * Automatically included – Aggregate Limits of Insurance (per location)
- * Automatically included – Aggregate Limits of Insurance (per project)
- * Knowledge of occurrence – Knowledge of an “occurrence”, “claim or suit” by your agent, servant or employee shall not in itself constitute knowledge of the named insured unless an officer of the named insured has received such notice from the agent, servant or employee
- * Blanket Waiver of Subrogation
- * Liberalization Condition
- * Unintentional failure to disclose all hazards. If you unintentionally fail to disclose any hazards existing at the inception date of your policy, we will not deny coverage under this Coverage Form because of such failure. However, this provision does not affect our right to collect additional premium or exercise our right of cancellation or non-renewal.
- * “Insured Contract” redefined for Limited Railroad Contractual Liability
- * Mobile equipment to include snow removal, road maintenance and street cleaning equipment less than 1,000 lbs GVW
- * Bodily Injury Redefined

**REFER TO THE ACTUAL ENDORSEMENT FOLLOWING ON PAGES 2 THROUGH 14 FOR CHANGES
AFFECTING YOUR INSURANCE PROTECTION**

C. SUPPLEMENTARY PAYMENTS – COVERAGES A AND B is amended:

1. To read SUPPLEMENTARY PAYMENTS

2. Bail Bonds

Item **1.b.** is amended as follows:

- b.** Up to \$1,000 for cost of bail bonds required because of accidents or traffic law violations arising out of the use of any vehicle to which the Bodily Injury Liability Coverage applies. We do not have to furnish these bonds.

3. Loss of Earnings

Item **1.d.** is amended as follows:

- d.** All reasonable expenses incurred by the insured at our request to assist us in the investigation or defense of the claim or "suit", including actual loss of earnings up to \$500 a day because of time off from work.

4. The following language is added to Item 1.

However, we shall have none of the duties set forth above when this insurance applies only for **Voluntary Property Damage Coverage** and/or **Care, Custody or Control Property Damage Coverage** and we have paid the Limit of Liability or the Aggregate Limit for these coverages.

SECTION II – WHO IS AN INSURED

A. The following change is made:

Extended Reporting Requirements

Item **3.a.** is deleted and replaced by the following :

- a.** Coverage under this provision is afforded only until the 180th day after you acquire or form the organization or the end of the policy period, whichever is earlier.

B. The following provisions are added:

4. BROAD FORM NAMED INSURED

Item **1.f.** is added as follows:

- f.** Any legally incorporated entity of which you own more than 50 percent of the voting stock during the policy period only if there is no other similar insurance available to that entity. However:

- (1) Coverage **A** does not apply to "bodily injury" or "property damage" that occurred before you acquired more than 50 percent of the voting stock; and
- (2) Coverage **B** does not apply to "personal and advertising injury" arising out of an offense committed before you acquired more than 50 percent of the voting stock.

5. Additional Insured – Owners, Lessees or Contractors-Automatic Status When Required in Construction or Service Agreement With You – Including Upstream Parties

- a.** Any person or organization for whom you are performing operations when you and such person or organization have agreed in writing in a contract or agreement that such person or organization be added as an additional insured on your policy;
- b.** Any other person or organization you are required to add as an additional insured under the contract or agreement described in Paragraph **a.** above.

Such person(s) or organization(s) is an additional insured only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" which may be imputed to that person or organization directly arising out of:

1. Your acts or omissions; or
 2. The acts or omissions of those acting on your behalf;
- in the performance of your ongoing operations for the additional insured.

However, the insurance afforded to such additional insured:

1. Only applies to the extent permitted by law; and

2. Will not be broader than that which you are required by the contract or agreement to provide for such additional insured.
- c. With respect to the insurance afforded to these additional insureds, the following additional exclusions apply:
This insurance does not apply to:

1. "Bodily injury", "property damage" or "personal and advertising injury" arising out of the rendering of, or the failure to render, any professional architectural, engineering or surveying services, including:
 - a. The preparing, approving, or failing to prepare or approve, maps, shop drawings, opinions, reports, surveys, field orders, change orders or drawings and specifications; or
 - b. Supervisory, inspection, architectural or engineering activities.

This exclusion applies even if the claims against any insured allege negligence or other wrongdoing in the supervision, hiring, employment, training or monitoring of others by that insured, if the "occurrence" which caused the "bodily injury" or "property damage", or the offense which caused the "personal and advertising injury", involved the rendering of or the failure to render any professional architectural, engineering or surveying services.

2. "Bodily injury" or "property damage" occurring after:
 - a. All work, including materials, parts or equipment furnished in connection with such work, on the project (other than service, maintenance or repairs) to be performed by or on behalf of the additional insured(s) at the location of the covered operations has been completed; or
 - b. That portion of "your work" out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in performing operations for a principal as a part of the same project.

6. Additional Insured – Products Completed Operations Coverage – Including Upstream Parties

- a. Any person or organization for whom you are performing operations when you and such person or organization have agreed in writing in a contract or agreement that such person or organization be added as an additional insured on your policy; and
- b. Any other person or organization you are required to add as an additional insured under the contract or agreement described in Paragraph a. above.

Such person(s) or organization(s) is an additional insured only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" which may be imputed to that person or organization directly arising out of "your work" specified in the "written contract" and included in the "products-completed operations hazard".

However:

- (1) The insurance afforded to such additional insureds only applies to the extent permitted by law;
- (2) If coverage provided to the additional insured is required by a contract or agreement, the insurance afforded to such additional insured will not be broader than that which you are required by the contract or agreement to provide for such additional insured.
- (3) Such coverage will not apply subsequent to the first to occur of the following:
 - i. The expiration of the period of time required by the "written contract"; or
 - ii. The expiration of any applicable statute of limitations or statute of repose with respect to claims arising out of "your work".
- c. With respect to the insurance afforded to any additional insured under this endorsement, the following additional exclusionary language shall apply:

This insurance does not apply to "bodily injury" or "property damage" arising out of the rendering of, or the failure to render, any professional architecture, engineering or surveying services, including:

- (1) The preparing, approving, or failing to prepare or approve, maps, shop drawings, opinions, reports, surveys, field orders, change orders or drawings and specifications; or
- (2) Supervisory, inspection, architectural or engineering activities.

- (b) If a claim is made or "suit" is brought against any insured, you must:
- i. Immediately record the specifics of the claim or "suit" and the date received; and
 - ii. Notify us as soon as practicable.

You must see to it that we receive written notice of the claim or "suit" as soon as practicable. Knowledge of a claim or "suit" by your agent, servant or employee shall not in itself constitute knowledge of the named insured unless an officer of the named insured has received such notice from the agent, servant or employee.

2. Where **Broad Form Named Insured** is added in **SECTION II – WHO IS AN INSURED** of this endorsement, Condition 4. **Other Insurance b. Excess Insurance (1).(a)** is replaced by the following:

- (a) Any of the other insurance, whether primary, excess, contingent or on any other basis, that is available to an insured solely by reason of ownership by you of more than 50 percent of the voting stock, and not withstanding any other language in any other policy. This provision does not apply to a policy written to apply specifically in excess of this policy.

B. The following are added:

1. Condition **(5) of 2.c.**

- (5) Upon our request, replace or repair the property covered under Voluntary Property Damage Coverage at your actual cost, excluding profit or overhead.

10. Blanket Waiver Of Subrogation

We waive any right of recovery we may have against any person or organization because of payments we make for injury or damage arising out of: premises owned or occupied by or rented or loaned to you, ongoing operations performed by you or on your behalf, done under a contract with that person or organization, "your work", or "your products". We waive this right where you have agreed to do so as part of a written contract, executed by you before the "bodily injury" or "property damage" occurs or the "personal injury" or "advertising injury" offense is committed.

11. Liberalization

If a revision to this Coverage Part, which would provide more coverage with no additional premium becomes effective during the policy period in the state designated for the first Named Insured shown in the Declarations, your policy will automatically provide this additional coverage on the effective date of the revision.

12. Unintentional Failure to Disclose All Hazards

Based on our reliance on your representations as to existing hazards, if you unintentionally should fail to disclose all such hazards at the inception date of your policy, we will not deny coverage under this Coverage Part because of such failure. However, this provision does not affect our right to collect additional premium or exercise our right of cancellation or non-renewal.

13. The following conditions are added in regard to Coverage G – Product Recall Expense

In event of a "product recall", you must

- a. See to it that we are notified as soon as practicable of a "product recall". To the extent possible, notice should include how, when and where the "product recall" took place and estimated "product recall expense".
- b. Take all reasonable steps to minimize "product recall expense". This will not increase the limits of insurance.
- c. If requested, permit us to question you under oath at such times as may be reasonably required about any matter relating to this insurance or your claim, including your books and records. Your answers must be signed.
- d. Permit us to inspect and obtain other information proving the loss. You must send us a signed, sworn statement of loss containing the information we request to investigate the claim. You must do this within 60 days after our request.
- e. Cooperate with us in the investigation or settlement of any claim.
- f. Assist us upon our request, in the enforcement of any rights against any person or organization which may be liable to you because of loss to which this insurance applies.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

BUSINESS AUTO ULTRA ENDORSEMENT

This endorsement modifies insurance provided under the following:

BUSINESS AUTO COVERAGE FORM

COMMON POLICY CONDITIONS

COVERAGE INDEX

DESCRIPTION	PAGE
Temporary Substitute Auto Physical Damage	2
Broad Form Insured	2
Employee as Insureds	2
Additional Insured Status by Contract, Agreement or Permit	2
Bail Bond Coverage	3
Loss of Earnings Coverage	3
Amended Fellow Employee Coverage	3
Towing and Labor	3
Physical Damage Additional Transportation Expense Coverage	3
Extra Expense - Theft	3
Rental Reimbursement and Additional Transportation Expense	4
Personal Effects Coverage	4
Personal Property of Others	4
Locksmith Coverage	4
Vehicle Wrap Coverage	5
Airbag Accidental Discharge	5
Audio, Visual and Data Electronic Equipment Coverage	5
Auto Loan/Lease Total Loss Protection	5
Glass Repair – Deductible Amendment	5
Amended Duties in the Event of Accident, Claim, Suit or Loss	6
Waiver of Subrogation Required by Contract	6
Unintentional Failure to Disclose	6
Hired, Leased, Rented or Borrowed Auto Physical Damage	6
Mental Anguish	7
Extended Cancellation Condition	7

The COVERAGE INDEX set forth above is informational only and grants no coverage.

Terms set forth in ***(Bold Italics)*** are likewise for information only and by themselves shall be deemed to grant no coverage.

(Temporary Substitute Auto Physical Damage)

A. TEMPORARY SUBSTITUTE AUTO PHYSICAL DAMAGE

SECTION I – COVERED AUTOS, paragraph C. Certain Trailers, Mobile Equipment and Temporary Substitute Autos is amended by adding the following at the end of the existing language:

If Physical Damage Coverage is provided under this Coverage form for an "auto" you own, the Physical Damage coverages provided for that owned "auto" are extended to any "auto" you do not own while used with the permission of its owner as a temporary substitute for the covered "auto" you own that is out of service because of its breakdown, repair, servicing, "loss", or destruction

B. BROADENED LIABILITY COVERAGES

SECTION II – LIABILITY COVERAGE in Paragraph A. Coverage at 1. Who Is An Insured is amended to include the following:

(Broad Form Insured)

- d. Any legally incorporated subsidiary in which you own more than 50% of the voting stock on the effective date of the Coverage Form. However, the Named Insured does not include any subsidiary that is an "insured" under any other automobile policy or would be an "insured" under such a policy but for its termination or the exhaustion of its Limit of Insurance.
- e. Any organization that is acquired or formed by you, during the term of this policy and over which you maintain majority ownership. However, the Named Insured does not include any newly formed or acquired organization:
 - (1) That is a joint venture or partnership,
 - (2) That is an "insured" under any other policy,
 - (3) That has exhausted its Limits of Insurance under any other policy, or
 - (4) 180 days or more after its acquisition or formation by you, unless you have given us notice of the acquisition or formation

Coverage does not apply to "bodily injury" or "property damage" that results from an accident that occurred before you formed or acquired the organization.

(Employee as Insureds)

- f. Any employee of yours while acting in the course of your business or your personal affairs while using a covered "auto" you do not own, hire or borrow.

(Additional Insured Status by Contract, Agreement or Permit)

- g. Any person or organization whom you are required to add as an additional insured on this policy under a written contract or agreement; but the written contract or agreement must be:
 - (1) Currently in effect or becoming effective during the term of this policy; and
 - (2) Executed prior to the "bodily injury" or "property damage."

The additional insured status will apply only with respect to your liability for "bodily injury" or "property damage" which may be imputed to that person(s) or organization(s) directly arising out of the ownership, maintenance or use of the covered "autos" at the location(s) designated, if any.

Coverage provided by this endorsement will not exceed the limits of liability required by the written contract or written agreement even if the limits of liability stated in the policy exceed those limits. This endorsement shall not increase the limits stated in **Section II. C. Limits of Insurance.**

For any covered "auto" you own this Coverage Form provides primary coverage.

(Amended Duties in the Event of Accident, Claim, Suit or Loss)

I. AMENDED DUTIES IN THE EVENT OF ACCIDENT, CLAIM, SUIT OR LOSS

Under **SECTION IV – BUSINESS AUTO CONDITIONS, A. Loss Conditions**, the following is added to paragraph **2. Duties In The Event of Accident, Suit or Loss:**

- d. Knowledge of any "accident", "claim", "suit" or "loss" will be deemed knowledge by you when notice of such "accident", "claim", "suit" or "loss" has been received by:
 - (1) You, if you are an individual;
 - (2) Any partner or insurance manager if you are a partnership;
 - (3) An executive officer or insurance manager, if you are a corporation;
 - (4) Your members, managers or insurance manager, if you are a limited liability company; or
 - (5) Your officials, trustees, board members or insurance manager, if you are a not-for-profit organization.

(Waiver of Subrogation by Contract)

J. WAIVER OF SUBROGATION REQUIRED BY CONTRACT

Under **SECTION IV, BUSINESS AUTO CONDITIONS, A. Loss Conditions 5. Transfer of Rights of Recovery Against Others to Us** the following language is added:

However, we waive any rights of recovery we may have against the person or organization with whom you have agreed in writing in a contract, agreement or permit, to provide insurance such as is afforded under the policy to which this endorsement is attached. This provision does not apply unless the written contract or written agreement has been executed, or permit has been issued, prior to the "bodily injury" or "property damage."

(Unintentional Failure to Disclose)

K. UNINTENTIONAL FAILURE TO DISCLOSE

Under **SECTION IV – BUSINESS AUTO CONDITIONS, B. General Conditions**, the following is added to **2. Concealment, Misrepresentation Or Fraud:**

Your unintentional error in disclosing, or failing to disclose, any material fact existing at the effective date of this Coverage Form, or during the policy period in connection with any additional hazards, will not prejudice your rights under this Coverage Form.

(Hired, Leased, Rented or Borrowed Auto Physical Damage)

L. HIRED, LEASED, RENTED OR BORROWED AUTO PHYSICAL DAMAGE

Under **SECTION IV – BUSINESS AUTO CONDITIONS B. General Conditions 5. Other Insurance** Paragraph **5.b.** is replaced by the following:

- b. (1) For "Comprehensive" and "Collision" Auto Physical Damage coverage provided by this endorsement, the following are deemed to be covered "autos" you own:
 - (a) Any Covered "auto" you lease, hire, rent or borrow; and
 - (b) Any Covered "auto" hired or rented by your "employee" under a contract in that individual "employee's" name, with your permission, while performing duties related to the conduct of your business.

However, any "auto" that is leased, hired, rented or borrowed with a driver is not a covered "auto"

(2) Limit of Insurance For This Section

The most we will pay for any one "loss" is the lesser of the following:

- (a) \$75,000 per accident, or
- (b) actual cash value at the time of loss, or
- (c) cost of repair.

TEXAS WAIVER OF OUR RIGHT TO RECOVER FROM OTHERS ENDORSEMENT

This endorsement applies only to the insurance provided by the policy because Texas is shown in item 3.A. of the Information Page.

We have the right to recover our payments from anyone liable for an injury covered by this policy. We will not enforce our right against the person or organization named in the Schedule, but this waiver applies only with respect to bodily injury arising out of the operations described in the schedule where you are required by a written contract to obtain this waiver from us.

This endorsement shall not operate directly or indirectly to benefit anyone not named in the Schedule.

The premium for this endorsement is shown in the Schedule.

Schedule

1. ☐ Specific Waiver

Name of person or organization

☒ Blanket Waiver

Any person or organization for whom the Named Insured has agreed by written contract to furnish this waiver.

2. Operations: ALL TEXAS OPERATIONS

3. Premium:

The premium charge for this endorsement shall be **2.00** percent of the premium developed on payroll in connection with work performed for the above person(s) or organization(s) arising out of the operations described.

4. Advance Premium: Included, see Information Page

This endorsement changes the policy to which it is attached effective on the inception date of the policy unless a different date is indicated below.

(The following "attaching clause" need be completed only when this endorsement is issued subsequent to preparation of the policy.)

This endorsement, effective on 1/1/21 at 12:01 a.m. standard time, forms a part of:

Policy no. 0001152369 of Texas Mutual Insurance Company effective on 1/1/21

Issued to: CURTCO INC

This is not a bill



Authorized representative

NCCI Carrier Code: 29939

12/30/20

Dept: * Purchasing

Contract ID: 21186 R3

For: Transportation Services

Bid Number: 21119

Contact Name: Kimberley Ruiz

Contact Phone: * 8089

Contact Email: * kgruiz@gptx.org

Vendor Name: Curtco, Inc.

Vendor Email: cwheatcraft@aol.com

Project Name: Pavement Crack & Joint Sealing Services

Summary: Renewal 3 - price increase

Permanent Retention *

☐ Yes

☒ No

Contract Amount

\$ 2,810,000.00

Total Contract Amount over all terms

\$ 14,050,000.00

Account #

Work Order #

Implementation Date

9/1/2024

Termination Date

8/31/2025

Council Approval Date

8/17/2021

Contract Approvals

Department Manager:

Latifia M. Coleman

Date: 11/6/2024

City Attorney Signature

Ronald Gregory Harper

Date: 10/29/2024

City Manager Signature

Megan Mahan

Date: 11/15/2024

City Secretary Signature

Gloria Colvin

Date: 11/15/2024

Legal Reviewer

Which attorney previously reviewed this contract?

No Prior Legal Review

**CITY OF GRAND PRAIRIE
AMENDMENT #1 TO PRICE AGREEMENT**

THIS AMENDMENT (hereinafter "AMENDMENT") is made and entered into this date by and between the **CITY OF GRAND PRAIRIE**, a Texas municipal corporation (hereinafter "**CITY**"), and **CURTCO, INC** (hereinafter "**VENDOR**"). Collectively, **CITY** and **VENDOR** are hereinafter referred to as the "**PARTIES**" and individually as a "**PARTY**."

WHEREAS, the **CITY** and **VENDOR** have entered into a price contract to provide pavement crack & joint sealing services (hereinafter "**ORIGINAL CONTRACT**"), per bid award resulting from vendor's response to **RFB #21119**, submitted by **Curts Wheatcraft** on **July 8, 2021**; and

WHEREAS, the above-referenced **ORIGINAL CONTRACT** was for an initial term of one (1) year with the option to renew for four (4) additional one (1) year periods, totaling **FOURTEEN MILLION FIFTY THOUSAND DOLLARS 00/100 (\$14,050,000.00)** if all extensions were exercised. The **ORIGINAL CONTRACT** was effective as of **September 1, 2021**, and was to terminate at midnight on **August 31, 2022**, unless the **PARTIES** mutually agreed in writing to extend the term of the **ORIGINAL CONTRACT** through an allowable renewal option, or unless otherwise terminated as provided in Paragraph XVI of the **ORIGINAL CONTRACT**; and

WHEREAS, the **first (1) of four (4)** available renewal options was executed on **July 25, 2022**, and extended the term of the **ORIGINAL CONTRACT** through **August 31, 2023**; the **second (2) of four (4)** renewal options was executed on **June 30, 2023**, and extended the term of the **ORIGINAL CONTRACT** through **August 31, 2024**; and

WHEREAS, the above-referenced **ORIGINAL CONTRACT** provides that **VENDOR** may request a price increase through a price redetermination request, substantiated in writing, to become effective on the anniversary date of the **ORIGINAL CONTRACT** to cover verifiable increases in cost to the applicable industry.

NOW, THEREFORE, for and in consideration of the mutual acts and covenants set out herein, the **CITY** and **VENDOR** agree as follows:

1. **RECITALS.** The recitals contained herein are true and correct and are incorporated for all purposes.
2. **TERM.** The **PARTIES** mutually agree to execute the **third (3) of the four (4)** available renewal options and extend the **ORIGINAL CONTRACT** expiration to midnight on **August 31, 2025** at which time all of the work called for under the **ORIGINAL CONTRACT** must be completed unless the **PARTIES** mutually agree in writing to extend the term of the **ORIGINAL CONTRACT** through an additional allowable renewal option, or, unless otherwise terminated as provided in provided in Paragraph XVI of the **ORIGINAL CONTRACT**.
3. **PRICE REDETERMINATION.** The **CITY** and **VENDOR** agree that the vendor's price redetermination proposal (hereinafter "**VENDOR'S PRICE REDETERMINATION PROPOSAL**", attached hereto to as "**EXHIBIT A**" and incorporated herein in its entirety), contains a price redetermination request in writing that covers verifiable increases in cost, is acceptable and in the best interest of the **CITY**. The **VENDOR'S PRICE**

REDETERMINATION PROPOSAL shall become effective on the anniversary date of the ORIGINAL CONTRACT.

4. ORDER OF PRECEDENCE. If there is any conflict between the terms of the ORIGINAL CONTRACT and the VENDOR'S PRICE REDETERMINATION PROPOSAL, the order of precedence shall be the ORIGINAL CONTRACT then VENDOR'S PRICE REDETERMINATION PROPOSAL.
5. FEES. The amount paid from CITY to VENDOR shall continue to be an amount not to exceed **TWO MILLION EIGHT HUNDRED TEN THOUSAND DOLLARS 00/100 (\$2,810,000.00)** annually and not to exceed **FOURTEEN MILLION FIFTY THOUSAND DOLLARS-00/100 (\$14,050,000.00)** if all extensions are authorized.
6. INSURANCE. VENDOR shall obtain and shall continue to maintain at no cost to the CITY, in full force and effect during the term of this CONTRACT, a comprehensive liability insurance policy with a company licensed to do business in the State of Texas and rated not less than "A" in the current Best Key Rating Guide, which shall include bodily injury, death, automobile liability, worker's compensation, and property damage coverage, in accordance with any CITY ordinance or directive. The minimum limits for this coverage shall be \$1,000,000.00 per occurrence / \$2,000,000 aggregate for general liability and for property damage, and \$1,000,000 combined single limit for automobile liability unless modified in accordance with any ordinance or directive. Insurance obtained by VENDOR shall be primary and noncontributory, and CITY shall be named as an additional insured under the general liability and automobile policies. A provision shall be incorporated in the policies whereby CITY shall be given at least thirty (30) days prior notice of any material change in coverage or of cancellation of such policies, and Vendor shall provide the City with a copy of any such notice of material change in coverage or cancellation of any such policies, within three (3) business days of its receipt of such a notice. For purposes of this section, a material change in coverage includes, but is not limited to, a reduction in coverage below the amounts required under this CONTRACT. VENDOR shall provide a waiver of subrogation in favor of the CITY on all coverages and represents that it has taken all actions necessary under the policy or policies for the City to have the status of additional insured and to effectuate any required waiver of subrogation. VENDOR shall furnish the CITY with original copies of the policies or certificates evidencing such coverage prior to commencement of any work under this Contract.
7. TERMS AND CONDITIONS. This AMENDMENT shall constitute authorization for the extension of the CONTRACT as set out in the ORIGINAL CONTRACT between the PARTIES. All the terms and conditions of the ORIGINAL CONTRACT shall remain in full force and effect, as amended hereto, unless set out otherwise herein.
8. NOTICES. All notices, requests, or other communications (excluding invoices) hereunder must be in writing and transmitted via overnight courier, email, hand delivery, or certified or registered mail, postage prepaid and return receipt requested to the CITY and VENDOR as follows:

CITY:

City of Grand Prairie

ATTN: Kimberley Ruiz, Senior Buyer | Purchasing Division

300 W. Main Street, Grand Prairie, TX 75050

PO Box 534045, Grand Prairie, TX 75053-4045
Phone 972-237- 8089 | Email kg Ruiz@gptx.org
Accounts Payable Contact: accountspayable@gptx.org

City of Grand Prairie
ATTN: Leland Miller
1821 S SH161, Grand Prairie, TX 75050
PO Box 534045, Grand Prairie, TX 75053-4045
Phone 972-235-8529 | Email lrmiller@gptx.org

VENDOR:
Curtco, Inc.
ATTN: Curtis Wheatcraft
6133 Hwy 27, Center Point, TX, 78010
Phone 830-634-3434 | Email cwheatcraft@aol.com

Any notice required or desired to be given to either party hereto shall be deemed to be delivered: (i) on the date of delivery, if hand delivered or emailed; (ii) one (1) day after sending, if sent by overnight courier; or (iii) three (3) days after the same is deposited in an official depository under the regular care and custody of the United States Postal Service located within the confines of the United States of America and sent by registered or certified mail, return receipt requested, and addressed to such party at the address hereinafter specified. Either party hereto may change such party's address for notice to another address within the United States of America, but until written notice of such change is received by the other party, the last address of such party designated for notice shall remain such party's address for notice.

9. AUTHORIZED SIGNATURES. Each PARTY represents to the other that the signatory set forth below is duly authorized to bind that party to this AMENDMENT.
10. VERIFICATIONS. VENDOR VERIFIES THAT: (1) It does not have a practice, policy, guidance, or directive that discriminates against a firearm entity or firearm trade association, as defined in Texas Government Code § 2274.001, and that it will not during the term of the contract discriminate against a firearm entity or firearm trade association; (2) It does not "boycott Israel" as that term is defined in Texas Government Code § 808.001 and it will not boycott Israel during the term of this contract; and (3) It does not "boycott energy companies," as those terms are defined in Texas Government Code §§ 809.001 and 2274.001, and it will not boycott energy companies during the term of the contract.

REST OF THE DOCUMENT INTENTIONALLY BLANK. SIGNATURE PAGE FOLLOWS.

EXECUTED this the _____ day of _____, 2024.

CITY OF GRAND PRAIRIE, TEXAS

By: Megan Mahan
Deputy City Manager

CURTCO, INC

By: ~~Wheatcraft~~

Printed
Name: CURTIS WHEATERAFT

ATTEST:

Title: PRESIDENT

for Gloria Colvin
Mona Lisa Galicia, City Secretary

APPROVED AS TO FORM:



Ron Harper
Assistant City Attorney

CURTCO INC.
6133 HWY 27
CENTER POINT, TX 78010
PHONE 830-634-3434

Date: August 16, 2024
RE: Bid Price Adjustment
RFB 21119
Attn: Kim Ruiz, City of Grand Prairie

Curtco Inc., requested and was granted a price increase on June 17, 2022.

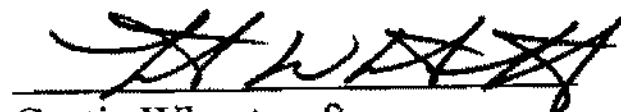
The cost of labor continues to increase. Since the beginning of this contract (2021) we has experienced a 20 – 25% increase in our hourly rate for our employees.

The work that we preform is very labor intensive, with the bulk of our overhead associated with that cost.

We are requesting a 8.69% increase on Bid Items 1, 2, &3. In addition, we are requesting a 4% increase on Bid Item 4. We are not asking for an increase on Item 5- Dust Control. If approved, the unit pricing would increase as follows:

<i>Description</i>	<i>Old price</i>	<i>New price</i>
1.Routing and Seal Crack Concrete	\$1.61	\$1.75
2.Routing and Seal Crack Asphalt	\$1.61	\$1.75
3.Joint Sealing Services	\$1.61	\$1.75
4.Crack Sealing Services	\$0.50	\$0.52
5.Dust Control	\$1.00	\$1.00

Sincerely,


Curtis Wheatcraft



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
01/05/2024

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER InSource Insurance 503 Med Ct, Suite 100 San Antonio TX 78258	CONTACT NAME: Kim Gonzalez PHONE (A/C, No, Ext): (210) 471-0500 FAX (A/C, No): E-MAIL ADDRESS: kim.gonzalez@relationinsurance.com														
INSURED Curtco, Inc. 6133 Hwy 27 Center Point TX 78010	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">INSURER(S) AFFORDING COVERAGE</th> <th style="text-align: left;">NAIC #</th> </tr> </thead> <tbody> <tr> <td>INSURER A: United Fire Lloyds</td> <td>43559</td> </tr> <tr> <td>INSURER B: Texas Mutual Insurance Company</td> <td>22945</td> </tr> <tr> <td>INSURER C: Navigators Specialty Insurance Company</td> <td>36056</td> </tr> <tr> <td>INSURER D:</td> <td></td> </tr> <tr> <td>INSURER E:</td> <td></td> </tr> <tr> <td>INSURER F:</td> <td></td> </tr> </tbody> </table>	INSURER(S) AFFORDING COVERAGE	NAIC #	INSURER A: United Fire Lloyds	43559	INSURER B: Texas Mutual Insurance Company	22945	INSURER C: Navigators Specialty Insurance Company	36056	INSURER D:		INSURER E:		INSURER F:	
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INSURER F:															

COVERAGES

CERTIFICATE NUMBER: 24/25 Master

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS														
A	☒ COMMERCIAL GENERAL LIABILITY ☐ CLAIMS-MADE ☒ OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: ☐ POLICY ☒ PROJECT ☐ LOC OTHER:			60541730	01/01/2024	01/01/2025	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>EACH OCCURRENCE</td><td>\$ 1,000,000</td></tr> <tr><td>DAMAGE TO RENTED PREMISES (Ea occurrence)</td><td>\$ 100,000</td></tr> <tr><td>MED EXP (Any one person)</td><td>\$ 50,000</td></tr> <tr><td>PERSONAL & ADV INJURY</td><td>\$ 1,000,000</td></tr> <tr><td>GENERAL AGGREGATE</td><td>\$ 2,000,000</td></tr> <tr><td>PRODUCTS - COMPIOP AGG</td><td>\$ 2,000,000</td></tr> <tr><td></td><td>\$</td></tr> </table>	EACH OCCURRENCE	\$ 1,000,000	DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 100,000	MED EXP (Any one person)	\$ 50,000	PERSONAL & ADV INJURY	\$ 1,000,000	GENERAL AGGREGATE	\$ 2,000,000	PRODUCTS - COMPIOP AGG	\$ 2,000,000		\$
EACH OCCURRENCE	\$ 1,000,000																				
DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 100,000																				
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PRODUCTS - COMPIOP AGG	\$ 2,000,000																				
	\$																				
A	☒ AUTOMOBILE LIABILITY ☒ ANY AUTO ☐ OWNED AUTOS ONLY ☐ SCHEDULED AUTOS ☐ HIRED AUTOS ONLY ☐ NON-OWNED AUTOS ONLY			60541730	01/01/2024	01/01/2025	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>COMBINED SINGLE LIMIT (Ea accident)</td><td>\$ 1,000,000</td></tr> <tr><td>BODILY INJURY (Per person)</td><td>\$</td></tr> <tr><td>BODILY INJURY (Per accident)</td><td>\$</td></tr> <tr><td>PROPERTY DAMAGE (Per accident)</td><td>\$</td></tr> <tr><td></td><td>\$</td></tr> </table>	COMBINED SINGLE LIMIT (Ea accident)	\$ 1,000,000	BODILY INJURY (Per person)	\$	BODILY INJURY (Per accident)	\$	PROPERTY DAMAGE (Per accident)	\$		\$				
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BODILY INJURY (Per accident)	\$																				
PROPERTY DAMAGE (Per accident)	\$																				
	\$																				
A	☒ UMBRELLA LIAB ☒ OCCUR ☐ EXCESS LIAB ☐ CLAIMS-MADE DED: RETENTION \$			60541730	01/01/2024	01/01/2025	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>EACH OCCURRENCE</td><td>\$ 5,000,000</td></tr> <tr><td>AGGREGATE</td><td>\$ 5,000,000</td></tr> <tr><td></td><td>\$</td></tr> </table>	EACH OCCURRENCE	\$ 5,000,000	AGGREGATE	\$ 5,000,000		\$								
EACH OCCURRENCE	\$ 5,000,000																				
AGGREGATE	\$ 5,000,000																				
	\$																				
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N Y	N/A	0001152369	01/01/2024	01/01/2025	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>☒ PER STATUTE</td> <td>☐ OTHER</td> <td></td> </tr> <tr><td>E.L. EACH ACCIDENT</td><td></td><td>\$ 1,000,000</td></tr> <tr><td>E.L. DISEASE - EA EMPLOYEE</td><td></td><td>\$ 1,000,000</td></tr> <tr><td>E.L. DISEASE - POLICY LIMIT</td><td></td><td>\$ 1,000,000</td></tr> </table>	☒ PER STATUTE	☐ OTHER		E.L. EACH ACCIDENT		\$ 1,000,000	E.L. DISEASE - EA EMPLOYEE		\$ 1,000,000	E.L. DISEASE - POLICY LIMIT		\$ 1,000,000		
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C	Pollution Liability			SF24ECP01131NC	01/01/2024	01/01/2026	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Per Incident</td><td>\$1,000,000</td></tr> <tr><td>Aggregate</td><td>\$1,000,000</td></tr> </table>	Per Incident	\$1,000,000	Aggregate	\$1,000,000										
Per Incident	\$1,000,000																				
Aggregate	\$1,000,000																				

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Re: RFB No. 21119 - Crak & Joint Sealing Service
 General Liability - Additional Insured and Waiver of Subrogation CG7208 07/17.
 Auto Liability - Additional Insured Form CA 7109 01/17.
 Workers' Compensation - Waiver of Subrogation Form WC420304B.

CERTIFICATE HOLDER

CANCELLATION

City of Grand Prairie PO Box 534045 Grand Prairie TX 75053	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE
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**TEXAS - EXTENDED ULTRA LIABILITY PLUS ENDORSEMENT
COMMERCIAL GENERAL LIABILITY EXTENSION ENDORSEMENT SUMMARY OF COVERAGES**

This is a summary of the various additional coverages and coverage modifications provided by this endorsement. No coverage is provided by this summary.

- * Extended Property Damage
- * Expanded Fire Legal Liability to include Explosion, Lightning and Sprinkler Leakage
- * Coverage for non-owned watercraft is extended to 51 feet in length
- * Property Damage – Borrowed Equipment
- * Property Damage Liability – Elevators
- * Coverage D – Voluntary Property Damage Coverage
\$5,000 Occurrence with a \$10,000 Aggregate
- * Coverage E – Care, Custody and Control Property Damage Coverage
\$25,000 Occurrence with a \$100,000 Aggregate – \$500 Deductible
- * Coverage F – Electronic Data Liability Coverage – \$50,000
- * Coverage G – Product Recall Expense
\$25,000 Each Recall Limit with a \$50,000 Aggregate – \$1,000 Deductible
- * Coverage H – Water Damage Legal Liability – \$25,000
- * Coverage I – Designated Operations Covered by a Consolidated (Wrap-Up) Insurance Program – Limited Coverage
- * Increase in Supplementary Payments: Bail Bonds to \$1,000
- * Increase in Supplementary Payments: Loss of Earnings to \$500
- * For newly formed or acquired organizations – extend the reporting requirement to 180 days
- * Broadened Named Insured
- * Automatic Additional Insured – Owners, Lessees or Contractors – Automatic Status When Required in Construction Agreement With You – Including Upstream Parties
- * Contractors Blanket Additional Insured – Products – Completed Operations Coverage – Including Upstream Parties
- * Automatic Additional Insured – Vendors
- * Automatic Additional Insured – Lessor of Leased Equipment Automatic Status When Required in Lease Agreement With You
- * Automatic Additional Insured – Managers or Lessor of Premises
- * Additional Insured – Engineers, Architects or Surveyors Not Engaged by the Named Insured
- * Additional Insured – State or Governmental Agency or Subdivision or Political Subdivision – Permits or Authorizations
- * Additional Insured – Consolidated Insurance Program (Wrap-Up) Off-Premises Operations Only – Owners, Lessees or Contractors Automatic Status When Required in Construction Agreement With You
- * Additional Insured – Employee Injury to Another Employee
- * Automatically included – Aggregate Limits of Insurance (per location)
- * Automatically included – Aggregate Limits of Insurance (per project)
- * Knowledge of occurrence – Knowledge of an “occurrence”, “claim or suit” by your agent, servant or employee shall not in itself constitute knowledge of the named insured unless an officer of the named insured has received such notice from the agent, servant or employee
- * Blanket Waiver of Subrogation
- * Liberalization Condition
- * Unintentional failure to disclose all hazards. If you unintentionally fail to disclose any hazards existing at the inception date of your policy, we will not deny coverage under this Coverage Form because of such failure. However, this provision does not affect our right to collect additional premium or exercise our right of cancellation or non-renewal.
- * “Insured Contract” redefined for Limited Railroad Contractual Liability
- * Mobile equipment to include snow removal, road maintenance and street cleaning equipment less than 1,000 lbs GVW
- * Bodily Injury Redefined

**REFER TO THE ACTUAL ENDORSEMENT FOLLOWING ON PAGES 2 THROUGH 14 FOR CHANGES
AFFECTING YOUR INSURANCE PROTECTION**

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

TEXAS – EXTENDED ULTRA LIABILITY PLUS ENDORSEMENT

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SECTION I – COVERAGES

A. The following changes are made at **COVERAGE A – BODILY INJURY AND PROPERTY DAMAGE LIABILITY**:

1. **Extended Property Damage**

At **2. Exclusions** exclusion **a. Expected or Intended Injury** is replaced with the following:

"Bodily injury" or "property damage" expected or intended from the standpoint of the insured. This exclusion does not apply to "bodily injury" or "property damage" resulting from the use of reasonable force to protect persons or property.

2. **Expanded Fire Legal Liability**

At **2. Exclusions** the last paragraph is deleted and replaced by the following:

Exclusions **c.** through **n.** do not apply to damage by fire, explosion, lightning, smoke resulting from such fire, explosion, or lightning or sprinkler leakage to premises while rented to you or temporarily occupied by you with permission of the owner. A separate limit of insurance applies to this coverage as described in **SECTION III – LIMITS OF INSURANCE**.

3. **Non-Owned Watercraft**

At **2. Exclusions** exclusion **g. Aircraft, Auto Or Watercraft (2) (a)** is deleted and replaced by the following:

(a) Less than 51 feet long;

4. **Property Damage – Borrowed Equipment**

At **2. Exclusions** the following is added to paragraph **(4)** of exclusion **j. Damage To Property**:

This exclusion does not apply to "property damage" to borrowed equipment while at a jobsite and while not being used to perform operations. The most we will pay for "property damage" to any one piece of borrowed equipment under this coverage is \$25,000 per occurrence. The insurance afforded under this provision is excess over any valid and collectible property insurance (including deductible) available to the insured, whether primary, excess, contingent or on any other basis.

5. **Property Damage Liability – Elevators**

At **2. Exclusions** the following is added to paragraphs **(3)**, **(4)** and **(6)** of exclusion **j. Damage To Property**:

This exclusion does not apply to "property damage" resulting from the use of elevators. However, any insurance provided for such "property damage" is excess over any valid and collectible property insurance (including deductible) available to the insured, whether primary, excess, contingent or on any other basis.

B. The following coverages are added:

1. **COVERAGE D – VOLUNTARY PROPERTY DAMAGE COVERAGE**

"Property damage" to property of others caused by the insured:

- a. While in your possession; or
- b. Arising out of "your work".

Coverage applies at the request of the insured, whether or not the insured is legally obligated to pay.

For the purposes of this **Voluntary Property Damage Coverage** only:

Exclusion j. Damage to Property is deleted and replaced by the following:

j. Damage to Property

"Property damage" to:

- (1) Property held by the insured for servicing, repair, storage or sale at premises you own, rent, lease, operate or use;
- (2) Property transported by or damage caused by any "automobile", "watercraft" or "aircraft" you own, hire or lease;
- (3) Property you own, rent, lease, borrow or use.

The amount we will pay is limited as described below in **SECTION III – LIMITS OF INSURANCE**.

For the purposes of this Voluntary Property Damage Coverage, our right and duty to defend ends when we have paid the Limit of Liability or the Aggregate Limit for each coverage, and we are granted sole discretion in making payments under this coverage.

2. COVERAGE E – CARE, CUSTODY AND CONTROL PROPERTY DAMAGE COVERAGE

For the purpose of this **Care, Custody and Control Property Damage Coverage** only:

- a. Item (4) of **Exclusion j.** does not apply.

The amount we will pay is limited as described below in **SECTION III – LIMITS OF INSURANCE**.

For the purposes of this Care, Custody and Control Property Damage Coverage, our right and duty to defend ends when we have paid the Limit of Liability or the Aggregate Limit for each coverage, and we are granted sole discretion in making payments under this coverage.

3. COVERAGE F – ELECTRONIC DATA LIABILITY COVERAGE

For the purposes of this **Electronic Data Liability Coverage** only:

- a. **Exclusion p. of Coverage A – Bodily Injury And Property Damage Liability** in **Section I – Coverages** is replaced by the following:

2. Exclusions

This insurance does not apply to:

p. Electronic Data

Damages arising out of the loss of, loss of use of, damage to, corruption of, inability to access, or inability to manipulate "electronic data" that does not result from physical injury to tangible property.

However, this exclusion does not apply to liability for damages because of "bodily injury".

- b. **"Property Damage"** means:

- (1) Physical injury to tangible property, including all resulting loss of use of that property. All such loss of use shall be deemed to occur at the time of the physical injury that caused it; or
- (2) Loss of use of tangible property that is not physically injured. All such loss of use shall be deemed to occur at the time of the "occurrence" that caused it; or
- (3) Loss of, loss of use of, damage to, corruption of, inability to access or inability to properly manipulate "electronic data", resulting from physical injury to tangible property. All such loss of "electronic data" shall be deemed to occur at the time of the "occurrence" that caused it.

For the purposes of this **Electronic Data Liability Coverage**, "electronic data" is not tangible property.

The amount we will pay is limited as described below in **SECTION III – LIMITS OF INSURANCE**.

4. COVERAGE G – PRODUCT RECALL EXPENSE

- a. Insuring Agreement

- (1) We will pay 90% of "product recall expense" you incur as a result of a "product recall" you initiate during the coverage period.
- (2) We will only pay for "product recall expense" arising out of "your products" which have been physically relinquished to others.

The amount we will pay is limited as described below in **SECTION III – LIMITS OF INSURANCE**.

b. Exclusions

This insurance does not apply to "product recall expense" arising out of:

- (1) Any fact, circumstance or situation which existed at the inception date of the policy and which you were aware of, or could reasonably have foreseen that would have resulted in a "product recall".
- (2) Deterioration, decomposition or transformation of a chemical nature, except if caused by an error in the manufacture, design, processing, storage, or transportation of "your product".
- (3) The withdrawal of similar products or batches that are not defective, when a defect in another product or batch has been found.
- (4) Acts, errors or omissions of any of your employees, done with prior knowledge of any of your officers or directors.
- (5) Inherent vice, meaning a natural condition of property that causes it to deteriorate or become damaged.
- (6) "Bodily Injury" or "Property Damage".
- (7) Failure of "your product" to accomplish its intended purpose, including any breach of warranty of fitness, quality, efficacy or efficiency, whether written or implied.
- (8) Loss of reputation, customer faith or approval, or any costs incurred to regain customer market, or any other consequential damages.
- (9) Legal fees or expenses.
- (10) Damages claimed for any loss, cost or expense incurred by you or others for the loss of use of "your product".
- (11) "Product recall expense" arising from the "product recall" of any of "your products" for which coverage is excluded by endorsement.
- (12) Any "product recall" initiated due to the expiration of the designated shelf life of "your product".

5. COVERAGE H – WATER DAMAGE LEGAL LIABILITY

The Insurance provided under Coverage H (Section I) applies to "property damage" arising out of water damage to premises that are both rented to and occupied by you.

The Limit under this coverage shall not be in addition to the Damage To Premises Rented To You Limit.

The amount we will pay is limited as described below in **SECTION III – LIMITS OF INSURANCE**.

6. COVERAGE I – DESIGNATED OPERATIONS COVERED BY A CONSOLIDATED (WRAP-UP) INSURANCE PROGRAM

The following exclusion is added to Paragraph 2. **Exclusions** of **SECTION I – COVERAGES COVERAGE A – BODILY INJURY AND PROPERTY DAMAGE LIABILITY**:

- r. This insurance does not apply to "bodily injury" or "property damage" arising out of either your ongoing operations or operations included within the "products-completed operations hazard" for any "consolidated (Wrap-up) insurance program" which has been provided by the prime contractor/project manager or owner of the construction project in which you are involved.

This exclusion applies whether or not a consolidated (Wrap-up) insurance program:

- a. Provides coverage identical to that provided by this Coverage Part; or
- b. Has limits adequate to cover all claims.

This exclusion does not apply if a "consolidated (Wrap-up) insurance program" covering your operations has been cancelled, non-renewed or otherwise no longer applies for reasons other than exhaustion of all available limits, whether such limits are available on a primary, excess or on any other basis. You must advise us of such cancellation, nonrenewal or termination as soon as practicable.

For purposes of this exclusion a "consolidated (wrap-up) insurance program" is a program providing insurance coverage to all parties for exposures involved with a particular (typically major) construction project.

C. SUPPLEMENTARY PAYMENTS – COVERAGES A AND B is amended:

1. To read SUPPLEMENTARY PAYMENTS

2. Bail Bonds

Item **1.b.** is amended as follows:

- b.** Up to \$1,000 for cost of bail bonds required because of accidents or traffic law violations arising out of the use of any vehicle to which the Bodily Injury Liability Coverage applies. We do not have to furnish these bonds.

3. Loss of Earnings

Item **1.d.** is amended as follows:

- d.** All reasonable expenses incurred by the insured at our request to assist us in the investigation or defense of the claim or "suit", including actual loss of earnings up to \$500 a day because of time off from work.

4. The following language is added to Item 1.

However, we shall have none of the duties set forth above when this insurance applies only for **Voluntary Property Damage Coverage** and/or **Care, Custody or Control Property Damage Coverage** and we have paid the Limit of Liability or the Aggregate Limit for these coverages.

SECTION II – WHO IS AN INSURED

A. The following change is made:

Extended Reporting Requirements

Item **3.a.** is deleted and replaced by the following :

- a.** Coverage under this provision is afforded only until the 180th day after you acquire or form the organization or the end of the policy period, whichever is earlier.

B. The following provisions are added:

4. BROAD FORM NAMED INSURED

Item **1.f.** is added as follows:

- f.** Any legally incorporated entity of which you own more than 50 percent of the voting stock during the policy period only if there is no other similar insurance available to that entity. However:

- (1) Coverage **A** does not apply to "bodily injury" or "property damage" that occurred before you acquired more than 50 percent of the voting stock; and
- (2) Coverage **B** does not apply to "personal and advertising injury" arising out of an offense committed before you acquired more than 50 percent of the voting stock.

5. Additional Insured – Owners, Lessees or Contractors-Automatic Status When Required in Construction or Service Agreement With You – Including Upstream Parties

- a.** Any person or organization for whom you are performing operations when you and such person or organization have agreed in writing in a contract or agreement that such person or organization be added as an additional insured on your policy;
- b.** Any other person or organization you are required to add as an additional insured under the contract or agreement described in Paragraph **a.** above.

Such person(s) or organization(s) is an additional insured only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" which may be imputed to that person or organization directly arising out of:

1. Your acts or omissions; or
2. The acts or omissions of those acting on your behalf;
- in the performance of your ongoing operations for the additional insured.

However, the insurance afforded to such additional insured:

1. Only applies to the extent permitted by law; and

2. Will not be broader than that which you are required by the contract or agreement to provide for such additional insured.
- c. With respect to the insurance afforded to these additional insureds, the following additional exclusions apply:
This insurance does not apply to:

1. "Bodily injury", "property damage" or "personal and advertising injury" arising out of the rendering of, or the failure to render, any professional architectural, engineering or surveying services, including:
 - a. The preparing, approving, or failing to prepare or approve, maps, shop drawings, opinions, reports, surveys, field orders, change orders or drawings and specifications; or
 - b. Supervisory, inspection, architectural or engineering activities.

This exclusion applies even if the claims against any insured allege negligence or other wrongdoing in the supervision, hiring, employment, training or monitoring of others by that insured, if the "occurrence" which caused the "bodily injury" or "property damage", or the offense which caused the "personal and advertising injury", involved the rendering of or the failure to render any professional architectural, engineering or surveying services.

2. "Bodily injury" or "property damage" occurring after:
 - a. All work, including materials, parts or equipment furnished in connection with such work, on the project (other than service, maintenance or repairs) to be performed by or on behalf of the additional insured(s) at the location of the covered operations has been completed; or
 - b. That portion of "your work" out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in performing operations for a principal as a part of the same project.

6. Additional Insured – Products Completed Operations Coverage – Including Upstream Parties

- a. Any person or organization for whom you are performing operations when you and such person or organization have agreed in writing in a contract or agreement that such person or organization be added as an additional insured on your policy; and
- b. Any other person or organization you are required to add as an additional insured under the contract or agreement described in Paragraph a. above.

Such person(s) or organization(s) is an additional insured only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" which may be imputed to that person or organization directly arising out of "your work" specified in the "written contract" and included in the "products-completed operations hazard".

However:

- (1) The insurance afforded to such additional insureds only applies to the extent permitted by law;
- (2) If coverage provided to the additional insured is required by a contract or agreement, the insurance afforded to such additional insured will not be broader than that which you are required by the contract or agreement to provide for such additional insured.
- (3) Such coverage will not apply subsequent to the first to occur of the following:
 - i. The expiration of the period of time required by the "written contract"; or
 - ii. The expiration of any applicable statute of limitations or statute of repose with respect to claims arising out of "your work".
- c. With respect to the insurance afforded to any additional insured under this endorsement, the following additional exclusionary language shall apply:

This insurance does not apply to "bodily injury" or "property damage" arising out of the rendering of, or the failure to render, any professional architecture, engineering or surveying services, including:

- (1) The preparing, approving, or failing to prepare or approve, maps, shop drawings, opinions, reports, surveys, field orders, change orders or drawings and specifications; or
- (2) Supervisory, inspection, architectural or engineering activities.

7. Additional Insured – Vendors

- a. Any person(s) or organization(s) (referred to throughout this additional coverage as vendor), but only with respect to "bodily injury" or "property damage", which may be imputed to that person(s) or organization(s) arising out of "your products" shown with the Schedule which are distributed or sold in the regular course of the vendor's business is an insured.

However:

- (1) The insurance afforded to such vendor only applies to the extent permitted by law; and
- (2) If coverage provided to the vendor is required by a contract or agreement, the insurance afforded to such vendor will not be broader than that which you are required by the contract or agreement to provide for such vendor.

- b. With respect to the insurance afforded to these vendors, the following additional exclusions apply:

- (1) This insurance afforded the vendor does not apply to:
 - (a) "Bodily injury" or "property damage" for which the vendor is obligated to pay damages by reason of the assumption of liability in a contract or agreement. This exclusion does not apply to liability for damages that the vendor would have in the absence of the contract or agreement;
 - (b) Any express warranty unauthorized by you;
 - (c) Any physical or chemical change in the product made intentionally by the vendor;
 - (d) Repackaging, except when unpacked solely for the purpose of inspection, demonstration, testing, or the substitution of parts under instructions from the manufacturer, and then repackaged in the original container.
 - (e) Any failure to make such inspections, adjustments, tests or servicing as the vendor has agreed to make or normally undertakes to make in the usual course of business, in connection with the distribution or sale of products.
 - (f) Demonstration, installation, servicing or repair operations, except such operations performed at the vendor's premises in connection with the sale of the product.
 - (g) Products which, after distribution or sale by you, have been labeled or relabeled or used as a container, part or ingredient of any other thing or substance by or for the vendor.
 - (h) "Bodily injury" or "property damage" arising out of the sole negligence of the vendor for its own acts or omissions or those of its employees or anyone else acting on its behalf. However, this exclusion does not apply to:
 - i. The exceptions contained in Sub-paragraphs d. or f.; or
 - ii. Such inspections, adjustments, tests or servicing as the vendor has agreed to make or normally undertakes to make in the usual course of business, in connection with the distribution or sale of the products.
- (2) This insurance does not apply to any insured person or organization, from whom you have acquired such products, or any ingredient, part or container, entering into, accompanying or containing such products.

8. Additional Insured – Lessor of Leased Equipment – Automatic Status When Required in Lease Agreement With You

- a. Any person(s) or organization(s) from whom you lease equipment when you and such person(s) or organization(s) have agreed in writing in a contract or agreement that such person(s) or organization(s) be added as an additional insured on your policy. Such person(s) or organization(s) is an insured only with respect to your liability for "bodily injury", "property damage" or "personal and advertising injury" directly arising out of the maintenance, operation or use of equipment leased to you, which may be imputed to such person or organization as the lessor of equipment.

However, the insurance afforded to such additional insured:

- (1) Only applies to the extent permitted by law; and
- (2) Will not be broader than that which you are required by the contract or agreement to provide for such additional insured.

A person's or organization's status as an additional insured under this endorsement ends when their contract or agreement with you for such leased equipment ends.

- b. With respect to the insurance afforded to these additional insureds, this insurance does not apply to any "occurrence" which takes place after the equipment lease expires.

9. Additional Insured – Managers or Lessors of Premises

- a. Any person(s) or organization(s), but only with respect to liability arising out of the ownership, maintenance or use of that part of the premises leased to you and subject to the following additional exclusions:

This insurance does not apply to:

- (1) Any "occurrence" which takes place after you cease to be a tenant in that premises.
- (2) Structural alterations, new construction or demolition operations performed by or on behalf of the person(s) or organization(s) shown in the Schedule.

However:

- (1) The insurance afforded to such additional insured only applies to the extent permitted by law; and
- (2) If coverage provided to the additional insured is required by a contract or agreement, the insurance afforded to such additional insured will not be broader than that which you are required by the contract or agreement to provide for such additional insured.

10. Additional Insured – Engineers, Architects or Surveyors Not Engaged by the Named Insured

- a. Any architects, engineers or surveyors who are not engaged by you are insureds, but only with respect to liability for "bodily injury" or "property damage" or "personal and advertising injury" which may be imputed to that architect, engineer or surveyor arising out of:

- (1) Your acts or omissions; or
- (2) Your acts or omissions of those acting on your behalf;

in the performance of your ongoing operations performed by you or on your behalf.

But only if such architects, engineers or surveyors, while not engaged by you, are contractually required to be added as an additional insured to your policy.

However, the insurance afforded to such additional insured:

- (1) Only applies to the extent permitted by law; and
- (2) Will not be broader than that which you are required by the contract or agreement to provide for such additional insured.

- b. With respect to the insurance afforded to these additional insureds, the following additional exclusion applies:

This insurance does not apply to "bodily injury", "property damage" or "personal and advertising injury" arising out of the rendering of or failure to render any professional services, including:

- (1) The preparing, approving, or failing to prepare or approve, maps, drawings, opinions, reports, surveys, change orders, designs or specifications; or
- (2) Supervisory, inspection or engineering services.

This exclusion applies even if the claims against any insured allege negligence or other wrongdoing in the supervision, hiring, employment, training or monitoring of others by that insured, if the "occurrence" which caused the "bodily injury" or "property damage", or the offense which caused the "personal and advertising injury", involved the rendering of or the failure to render any professional services.

11. Additional Insured – State or Governmental Agency or Subdivision or Political Subdivision – Permits or Authorizations

Any state or governmental agency or subdivision or political subdivision is an insured, subject to the following provisions:

- a. This insurance applies only with respect to operations performed by you or on your behalf for which the state or governmental agency or subdivision or political subdivision has issued a permit or authorization.

However:

- (1) The insurance afforded to such additional insured only applies to the extent permitted by law; and
- (2) If coverage provided to the additional insured is required by a contract or agreement, the insurance afforded to such additional insured will not be broader than that which you are required by the contract or agreement to provide for such additional insured.

- b. This insurance does not apply to:

- (1) "Bodily injury", "property damage" or "personal and advertising injury" arising out of operations performed for the federal government, state or municipality; or
- (2) "Bodily injury" or "property damage" included within the "products-completed operations hazard".

12. Additional Insured Consolidated Insurance Program (Wrap-Up) Off-Premises Operations Only – Owners, Lessees or Contractors

- a. Any persons or organizations for whom you are performing operations, for which you have elected to seek coverage under a Consolidated Insurance Program, when you and such person or organization have agreed in writing in a contract or agreement that such person or organization be added as an additional insured on your policy as an insured. Such person or organization is an additional insured only with respect to your liability which may be imputed to that person or organization directly arising out of your ongoing operations performed for that person or organization at a premises other than any project or location that is designated as covered under a Consolidated Insurance Program. A person's or organization's status as an insured under this endorsement ends when your operations for that insured are completed.
- b. With respect to the insurance afforded to these additional insureds, the following additional exclusion applies.

This insurance does not apply to:

"Bodily injury", "property damage", or "personal and advertising injury" arising out of the rendering of, or failure to render, any professional architectural, engineering or surveying services, including:

- (1) The preparing, approving, or failing to prepare or approve, maps, shop drawings, opinions, reports, surveys, field orders, change orders or drawings and specifications; and
- (2) Supervisory, inspection, architectural or engineering activities.

13. Additional Insured – Employee Injury to Another Employee

With respect to your "employees" who occupy positions which are supervisory in nature:

Paragraph 2.a.(1) of **SECTION II – WHO IS AN INSURED** is amended to read:

- a. "Bodily injury" or "personal and advertising injury":
 - (1) To you, to your partners or members (if you are a partnership or joint venture), or to your members (if you are a limited liability company);
 - (2) For which there is any obligation to share damages with or repay someone else who must pay damages because of the injury described in paragraph (1)(a) above; or
 - (3) Arising out of his or her providing or failing to provide professional healthcare services. Paragraph 3.a. is deleted.

For the purpose of this Item 12 only, a position is deemed to be supervisory in nature if that person performs principle work which is substantially different from that of his or her subordinates and has authority to hire, direct, discipline or discharge.

SECTION III – LIMITS OF INSURANCE

A. The following Items are deleted and replaced by the following:

2. The General Aggregate Limit is the most we will pay for the sum of:
 - a. Medical expenses under Coverage C;
 - b. Damages under Coverage A, except damages because of "bodily injury" or "property damage" included in the "products-completed operations hazard"; and
 - c. Damages under Coverage B; and
 - d. Damages under Coverage H.
3. The Products-Completed Operations Aggregate Limit is the most we will pay under Coverage A for damages because of "bodily injury" and "property damage" included in the "products-completed operations hazard" and Coverage G.
6. Subject to 5. above, the Damage to Premises Rented to You Limit is the most we will pay under Coverage A for damages because of "property damage" to any one premises, while rented to you, or in the case of damage by fire, explosion, lightning, smoke resulting from such fire, explosion, or lightning or sprinkler leakage while rented to you or temporarily occupied by you with permission of the owner.

B. The following are added:

8. Subject to Paragraph 5. of **SECTION III – LIMITS OF INSURANCE** \$25,000 is the most we will pay under Coverage H for **Water Damage Legal Liability**.

9. Coverage G – Product Recall Expense

Aggregate Limit \$50,000

Each Product Recall Limit \$25,000

- a. The Aggregate Limit shown above is the most we will pay for the sum of all "product recall expense" you incur as a result of all "product recalls" you initiate during the endorsement period.
- b. The Each Product Recall Limit shown above is the most we will pay, subject to the Aggregate and \$1,000 deductible, for "product recall expense" you incur for any one "product recall" you initiate during the endorsement period.

We will only pay for the amount of Product Recall Expenses which are in excess of the deductible amount. The deductible applies separately to each Product Recall. The limits of insurance will not be reduced by the amount of this deductible.

We may, or will if required by law, pay all or any part of any deductible amount. Upon notice of our payment of a deductible amount, you shall promptly reimburse us for the part of the deductible amount we paid.

10. Aggregate Limits of Insurance (Per Location)

The General Aggregate Limit applies separately to each of your "locations" owned by or rented to you or temporarily occupied by you with the permission of the owner.

"Location" means premises involving the same or connecting lots, or premises whose connection is interrupted only by a street, roadway, waterway or right-of-way of a railroad.

11. Aggregate Limits of Insurance (Per Project)

The General Aggregate Limit applies separately to each of your projects away from premises owned by or rented to you.

12. With respects to the insurance afforded to additional insureds afforded coverage by items 5 through 13 of **SECTION II – WHO IS AN INSURED** above, the following is added:

The most we will pay on behalf of the additional insured is the amount of insurance:

- a. Required by the contract or agreement;
- b. Available under the applicable Limits of Insurance shown in the Declarations;

Whichever is less.

This endorsement shall not increase the applicable Limits of Insurance shown in the Declarations.

13. Subject to 5. of **SECTION III – LIMITS OF INSURANCE**, a \$5,000 "occurrence" limit and a \$10,000 "aggregate" limit is the most we will pay under Coverage A for damages because of "property damage" covered under **Coverage D – Voluntary Property Damage Coverage**.

For the purposes of this Voluntary Property Damage Coverage, our right and duty to defend ends when we have paid the Limit of Liability or the Aggregate Limit for each coverage, and we are granted sole discretion in making payments under this coverage.

14. Subject to 5. of **SECTION III – LIMITS OF INSURANCE**, a \$25,000 "occurrence" limit and a \$100,000 "aggregate" limit is the most we will pay under **Coverage E – Care, Custody and Control Coverage** regardless of the number of:

- a. Insureds;
- b. Claims made or "suits" brought; or
- c. Persons or organizations making claims or bringing "suits".

Deductible - Our obligation to pay damages on your behalf applies only to the amount of damages in excess of \$500.

This deductible applies to all damages because of "property damage" as the result of any one "occurrence" regardless of the number of persons or organizations who sustain damages because of that "occurrence".

We may pay any part or all of the deductible amount to effect settlement of any claim or "suit" and upon notification of the action taken, you shall promptly reimburse us for such part of the deductible amount as has been paid by us.

As respects this coverage "Aggregate" is the maximum amount we will pay for all covered "occurrences" during one policy period.

For the purposes of this Care, Custody and Control Property Damage Coverage, our right and duty to defend ends when we have paid the Limit of Liability or the Aggregate Limit for each coverage, and we are granted sole discretion in making payments under this coverage.

15. Subject to 5. of **SECTION III – LIMITS OF INSURANCE**, the most we will pay for "property damage" under **Coverage F – Electronic Data Liability Coverage** for loss of "electronic data" is \$50,000 without regard to the number of "occurrences".

SECTION IV – COMMERCIAL GENERAL LIABILITY CONDITIONS

- A. The following conditions are amended:

1. Knowledge of Occurrence

- a. Condition 2., Items a. and b. are deleted and replaced by the following:

(1) Duties In The Event Of Occurrence, Offense, Claim Or Suit

- (a) You must see to it that we are notified as soon as practicable of an "occurrence" or an offense which may result in a claim. Knowledge of an "occurrence" by your agent, servant or employee shall not in itself constitute knowledge of the named insured unless an officer of the named insured has received such notice from the agent, servant or employee. To the extent possible, notice should include:
 - i. How, when and where the "occurrence" took place;
 - ii. The names and addresses of any injured persons and witnesses, and
 - iii. The nature and location of any injury or damage arising out of the "occurrence" or offense.

- (b) If a claim is made or "suit" is brought against any insured, you must:
 - i. Immediately record the specifics of the claim or "suit" and the date received; and
 - ii. Notify us as soon as practicable.

You must see to it that we receive written notice of the claim or "suit" as soon as practicable. Knowledge of a claim or "suit" by your agent, servant or employee shall not in itself constitute knowledge of the named insured unless an officer of the named insured has received such notice from the agent, servant or employee.

- 2. Where **Broad Form Named Insured** is added in **SECTION II – WHO IS AN INSURED** of this endorsement, Condition 4. **Other Insurance b. Excess Insurance (1).(a)** is replaced by the following:

- (a) Any of the other insurance, whether primary, excess, contingent or on any other basis, that is available to an insured solely by reason of ownership by you of more than 50 percent of the voting stock, and not withstanding any other language in any other policy. This provision does not apply to a policy written to apply specifically in excess of this policy.

B. The following are added:

- 1. Condition (5) of 2. **"Duties in the event Occurrence, Offense, Claim or Suit"** c. You or any other involved insured must:

- (5) Upon our request, replace or repair the property covered under Voluntary Property Damage Coverage at your actual cost, excluding profit or overhead.

10. Blanket Waiver Of Subrogation

We waive any right of recovery we may have against any person or organization because of payments we make for injury or damage arising out of: premises owned or occupied by or rented or loaned to you, ongoing operations performed by you or on your behalf, done under a contract with that person or organization, "your work", or "your products". We waive this right where you have agreed to do so as part of a written contract, executed by you before the "bodily injury" or "property damage" occurs or the "personal injury" or "advertising injury" offense is committed.

11. Liberalization

If a revision to this Coverage Part, which would provide more coverage with no additional premium becomes effective during the policy period in the state designated for the first Named Insured shown in the Declarations, your policy will automatically provide this additional coverage on the effective date of the revision.

12. Unintentional Failure to Disclose All Hazards

Based on our reliance on your representations as to existing hazards, if you unintentionally should fail to disclose all such hazards at the inception date of your policy, we will not deny coverage under this Coverage Part because of such failure. However, this provision does not affect our right to collect additional premium or exercise our right of cancellation or non-renewal.

13. The following conditions are added in regard to Coverage G – Product Recall Expense

In event of a "product recall", you must

- a. See to it that we are notified as soon as practicable of a "product recall". To the extent possible, notice should include how, when and where the "product recall" took place and estimated "product recall expense".
- b. Take all reasonable steps to minimize "product recall expense". This will not increase the limits of insurance.
- c. If requested, permit us to question you under oath at such times as may be reasonably required about any matter relating to this insurance or your claim, including your books and records. Your answers must be signed.
- d. Permit us to inspect and obtain other information proving the loss. You must send us a signed, sworn statement of loss containing the information we request to investigate the claim. You must do this within 60 days after our request.
- e. Cooperate with us in the investigation or settlement of any claim.
- f. Assist us upon our request, in the enforcement of any rights against any person or organization which may be liable to you because of loss to which this insurance applies.

g. Claims Handling

(1) Within 15 days after we receive written notice of claim, we will:

- (a) Acknowledge receipt of the claim. If we do not acknowledge receipt of the claim in writing, we will keep a record of the date, method and content of the acknowledgment;
- (b) Begin any investigation of the claim; and
- (c) Request a signed, sworn proof of loss, specify the information you must provide and supply you with the necessary forms. We may request more information at a later date, if during the investigation of the claim such additional information is necessary.

(2) We will notify you in writing as to whether:

- (a) The claim or part of the claim will be paid;
- (b) The claim or part of the claim has been denied, and inform you of the reasons for denial;
- (c) More information is necessary; or
- (d) We need additional time to reach a decision. If we need additional time, we will inform you of the reasons for such need.

(3) We will provide notification, as described in (2)(a) through (2)(d) above, within:

- (a) 15 business days after we receive the signed, sworn proof of loss and all information we requested; or
- (b) 30 days after we receive the signed, sworn proof of loss and all information we requested, if we have reason to believe the loss resulted from arson.

If we have notified you that we need additional time to reach a decision, we must then either approve or deny the claim within 45 days of such notice.

h. We will pay for covered loss or damage within 5 business days after:

- (1) We have notified you that payment of the claim or part of the claim will be made and have reached agreement with you on the amount of loss; or
- (2) An appraisal award has been made.

However, if payment of the claim or part of the claim is conditioned on your compliance with any of the terms of this policy, we will make payment within 5 business days after the date you have complied with such terms.

i. Catastrophe Claims

If a claim results from a weather related catastrophe or a major natural disaster, the claim handling and claim payment deadlines described in a. and b. above are extended for an additional 15 days.

Catastrophe or Major Natural Disaster means a weather related event which is:

- (1) Declared a disaster under the Texas Disaster Act of 1975; or
- (2) Determined to be a catastrophe by the State Board of Insurance.

j. The term "business day", as used in this endorsement, means a day other than Saturday, Sunday or a holiday recognized by the state of Texas.

k. We will issue loss payment to the first Named Insured shown in the Declarations and any mortgagee or loss payee as designated.

14. Limited Railroad Contractual Liability

The following conditions are applicable only to coverage afforded by reason of the redefining of an "insured contract" in the **DEFINITIONS** section of this endorsement:

- a. Railroad Protective Liability coverage provided by **Railroad Protective Liability Coverage Form (CG 00 35)** with minimum limits of \$2,000,000 per occurrence and a \$6,000,000 general aggregate limit must be in place for the entire duration of any project.
- b. Any amendment to the Other Insurance condition of **Railroad Protective Liability Coverage Form (CG 00 35)** alters the primacy of the coverage or which impairs our right to contribution will rescind any coverage afforded by the redefined "insured contract" language.
- c. For the purposes of the Other Insurance condition of **Railroad Protective Liability Coverage Form (CG 00 35)** you, the named insured, will be deemed to be the designated contractor.

SECTION V – DEFINITIONS

A. At item **12. Mobile Equipment** the wording at f.(1) is deleted and replaced by the following:

f. (1) Equipment designed primarily for:

- (a) Snow removal;
- (b) Road maintenance, but not construction or resurfacing; or
- (c) Street cleaning;

except for such vehicles that have a gross vehicle weight less than 1,000 lbs which are not designed for highway use.

B. Item **3. "bodily injury"** is deleted and replaced with the following:

- 3. "bodily injury" means physical injury, sickness or disease sustained by a person. This includes mental anguish, mental injury, shock, fright or death that results from such physical injury, sickness or disease.

C. Item **9. "Insured Contract"** c. is deleted and replaced with the following:

- c. Any easement or license agreement;

D. Item **9. "Insured Contract"** f.(1) is deleted.

E. The following definitions are added for this endorsement only:

23. "Electronic data" means information, facts or programs stored as or on, created or used on, or transmitted to or from computer software, including systems and applications software, hard or floppy disks, CD-ROMS, tape drives, cells, data processing devices or any other media which are used with electronically controlled equipment.

24. "Product recall" means a withdrawal or removal from the market of "your product" based on the determination by you or any regulatory or governmental agency that:

- a. The use or consumption of "your product" has caused or will cause actual or alleged "bodily injury" or "property damage"; and
- b. Such determination requires you to recover possession or control of "your product" from any distributor, purchaser or user, to repair or replace "your product", but only if "your product" is unfit for use or consumption, or is hazardous as a result of:
 - (1) An error or omission by an insured in the design, manufacturing, processing, labeling, storage, or transportation of "your product"; or
 - (2) Actual or alleged intentional, malicious or wrongful alteration or contamination of "your product" by someone other than you.

25. "Product recall expense" means reasonable and necessary expenses for:

- a. Telephone, radio and television communication and printed advertisements, including stationery, envelopes and postage.
- b. Transporting recalled products from any purchaser, distributor or user, to locations designated by you.
- c. Remuneration paid to your employees for overtime, as well as remuneration paid to additional employees or independent contractors you hire.
- d. Transportation and accommodation expense incurred by your employees.
- e. Rental expense incurred for temporary locations used to store recalled products.
- f. Expense incurred to properly dispose of recalled products, including packaging that cannot be reused.
- g. Transportation expenses incurred to replace recalled products.
- h. Repairing, redistributing or replacing covered recalled products with like products or substitutes, not to exceed your original cost of manufacturing, processing, acquisition and/or distribution.

These expenses must be incurred as a result of a "product recall".

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

BUSINESS AUTO ULTRA ENDORSEMENT

This endorsement modifies insurance provided under the following:

BUSINESS AUTO COVERAGE FORM

COMMON POLICY CONDITIONS

COVERAGE INDEX

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The COVERAGE INDEX set forth above is informational only and grants no coverage.

Terms set forth in ***(Bold Italics)*** are likewise for information only and by themselves shall be deemed to grant no coverage.

(Temporary Substitute Auto Physical Damage)

A. TEMPORARY SUBSTITUTE AUTO PHYSICAL DAMAGE

SECTION I – COVERED AUTOS, paragraph C. Certain Trailers, Mobile Equipment and Temporary Substitute Autos is amended by adding the following at the end of the existing language:

If Physical Damage Coverage is provided under this Coverage form for an "auto" you own, the Physical Damage coverages provided for that owned "auto" are extended to any "auto" you do not own while used with the permission of its owner as a temporary substitute for the covered "auto" you own that is out of service because of its breakdown, repair, servicing, "loss", or destruction

B. BROADENED LIABILITY COVERAGES

SECTION II – LIABILITY COVERAGE in Paragraph A. Coverage at 1. Who Is An Insured is amended to include the following:

(Broad Form Insured)

- d. Any legally incorporated subsidiary in which you own more than 50% of the voting stock on the effective date of the Coverage Form. However, the Named Insured does not include any subsidiary that is an "insured" under any other automobile policy or would be an "insured" under such a policy but for its termination or the exhaustion of its Limit of Insurance.
- e. Any organization that is acquired or formed by you, during the term of this policy and over which you maintain majority ownership. However, the Named Insured does not include any newly formed or acquired organization:
 - (1) That is a joint venture or partnership,
 - (2) That is an "insured" under any other policy,
 - (3) That has exhausted its Limits of Insurance under any other policy, or
 - (4) 180 days or more after its acquisition or formation by you, unless you have given us notice of the acquisition or formation

Coverage does not apply to "bodily injury" or "property damage" that results from an accident that occurred before you formed or acquired the organization.

(Employee as Insureds)

- f. Any employee of yours while acting in the course of your business or your personal affairs while using a covered "auto" you do not own, hire or borrow.

(Additional Insured Status by Contract, Agreement or Permit)

- g. Any person or organization whom you are required to add as an additional insured on this policy under a written contract or agreement; but the written contract or agreement must be:
 - (1) Currently in effect or becoming effective during the term of this policy; and
 - (2) Executed prior to the "bodily injury" or "property damage."

The additional insured status will apply only with respect to your liability for "bodily injury" or "property damage" which may be imputed to that person(s) or organization(s) directly arising out of the ownership, maintenance or use of the covered "autos" at the location(s) designated, if any.

Coverage provided by this endorsement will not exceed the limits of liability required by the written contract or written agreement even if the limits of liability stated in the policy exceed those limits. This endorsement shall not increase the limits stated in **Section II. C. Limits of Insurance.**

For any covered "auto" you own this Coverage Form provides primary coverage.

C. BROADENED SUPPLEMENTARY PAYMENTS

SECTION II. LIABILITY A. Coverage 2. Coverage Extensions a. Supplementary Payments (2) and (4) are replaced by the following:

(Bail Bond Coverage)

- (2) Up to \$5,000 for cost of bail bonds (including bonds for related traffic violations) required because of an "accident" we cover. We do not have to furnish these bonds.

(Loss of Earnings Coverage)

- (4) All reasonable expenses incurred by the "insured" at our request, including actual loss of earning up to \$500 a day because of time off from work.

(Amended Fellow Employee Exclusion)

D. AMENDED FELLOW EMPLOYEE EXCLUSION

Only with respect to your "employees" who occupy positions which are supervisory in nature, **SECTION II. LIABILITY B.**

Exclusion 5. Fellow Employee is replaced by:

5. Fellow Employee

"Bodily Injury":

- a. To you, or your partners or members (if you are a partnership or joint venture), or to your members (if you are a limited liability company);
- b. To your "executive officers" and directors (if you are an organization other than a partnership, joint venture, or limited liability company) but only with respect to performance of their duties as your officers or directors;
- c. For which there is an obligation to share damages with or repay someone else who must pay damages because of the injury described in paragraph a and b above; or
- d. Arising out of his or her providing or failing to provide professional health care services.

For purposes of this endorsement, a position is deemed to be supervisory in nature if that person performs principle work which is substantially different from that of his or her subordinates and has authority to hire, transfer, direct, discipline or discharge.

E. BROADENED PHYSICAL DAMAGE COVERAGES

SECTION III – PHYSICAL DAMAGE COVERAGE A. Coverage is amended as follows:

(Towing and Labor)

2. Towing is deleted and replaced with the following:

2. Towing and Labor

We will pay towing and labor costs incurred, up to the limits shown below, each time a covered "auto" is disabled:

- a. For private passenger type vehicles we will pay up to \$100 per disablement.
- b. For all other covered "auto's" we will pay up to \$500 per disablement

However, the labor must be performed at the place of disablement.

(Physical Damage Additional Transportation Expense Coverage)

4. Coverage Extensions

- a. **Transportation Expenses** is amended to provide the following limits:

We will pay up to \$60 per day to a maximum of \$1,800. All other terms and provisions of this section remain applicable.

The following language is added to **4. Coverage Extensions**:

(Extra Expense – Theft)

c. Theft Recovery Expense

If you have purchased Comprehensive Coverage on an "auto" that is stolen, we will pay the expense of returning that stolen auto to you. The limit for this coverage extension is \$5,000.

(Rental Reimbursement and Additional Transportation Expense)

d. Rental Reimbursement

We will provide Rental Reimbursement and Additional Expense coverage only for those Physical Damage coverages for which a premium is shown in the Declarations or schedule pages. Coverage applies only to a covered "auto".

- (1) We will pay for auto rental expense and the expense incurred by you because of "loss" to remove and transfer your materials and equipment from a covered "auto" to a covered "auto." Payment applies in addition to the otherwise applicable coverage you have on a covered "auto." No deductible applies to this coverage.
- (2) We will pay only for expenses incurred during the policy period and beginning 24 hours after the "loss" and ending, regardless of the policy's expiration, with the lesser of the following number of days:
 - (a) The number of days reasonably required to repair or replace the covered "auto." If "loss" is caused by theft, this number of days is added to the number of days it takes to locate the covered "auto" and return it to you, or
 - (b) 30 days.
- (3) Our payment is limited to the lesser of the following amounts:
 - (a) Necessary and actual expenses incurred; or
 - (b) \$75 per day.
 - (c) This coverage does not apply while there are spare or reserve "autos" available to you for your operations.
 - (d) If "loss" results from the total theft of a covered "auto" of the private passenger or light truck type, we will pay under this coverage only that amount of your rental reimbursement expense which is not already provided for under the **SECTION III – PHYSICAL DAMAGE COVERAGE, A. Coverage, 4. Coverage Extensions, a. Transportation Expenses.**

(Personal Effects Coverage)

e. Personal Effects

If you have purchased Comprehensive Coverage on this policy for an "auto" you own and that "auto" is stolen, we will pay, without application of a deductible, up to \$500 for Personal Effects stolen with the "auto". The insurance provided under this provision is excess over any other collectible insurance. For this coverage extension, Personal Effects means tangible property that is worn or carried by an "insured".

(Personal Property of Others)

f. Personal Property of Others

We will pay up to \$500 for loss to personal property of others in or on your covered "auto." This coverage applies only in the event of "loss" to your covered "auto" caused by fire, lightning, explosion, theft, mischief or vandalism, the covered "auto's" collision with another object, or the covered "auto's" overturn. No deductibles apply to this coverage.

(Locksmith Coverage)

g. Locksmith Coverage

We will pay up to \$250 per occurrence for necessary locksmith services for keys locked inside a covered private passenger "auto". The deductible is waived for these services.

(Vehicle Wrap Coverage)

h. Vehicle Wrap Coverage

If you have Comprehensive or Collision coverage on an "auto" that is a total loss, in addition to the actual cash value of the "auto", we will pay up to \$1,000 for vinyl vehicle wraps which are displayed on the covered "auto" at the time of total loss. Regardless of the number of autos deemed a total loss, the most we will pay under this Vehicle Wrap Coverage for any one "loss" is \$5,000. For purposes of this coverage provision, signs or other graphics painted or magnetically affixed to the vehicle are not considered vehicle wraps.

(Airbag Accidental Discharge)

F. SECTION III – PHYSICAL DAMAGE COVERAGE, B. Exclusions is amended at 3. to include the following language:

If you have purchased Comprehensive or Collision Coverage under this policy, this exclusion does not apply to mechanical breakdown relating to the accidental discharge of an air bag. This coverage applies only to a covered auto you own and is excess of any other collectible insurance or warranty. No deductible applies to this coverage.

G. BROADENED LIMITS OF INSURANCE

(Audio, Visual and Data Electronic Equipment Coverage)

SECTION III – PHYSICAL DAMAGE COVERAGE – C. Limit of Insurance at 1.b. is amended to provide the following limits:

- b. Limits of \$1,000 per "loss" is increased to \$5,000 per "loss". All other terms and provisions of this section remain applicable.

(Auto Loan/Lease Total Loss Protection)

SECTION III – PHYSICAL DAMAGE COVERAGE – C. Limit of Insurance is amended by adding the following language:

- 4. In the event of a total "loss" to a covered "auto" shown in the Schedule pages, subject at the time of the "loss" to a loan or lease, we will pay any unpaid amount due including up to a maximum of \$500 for early termination fees or penalties on the lease or loan for a covered "auto" less:
 - a. The amount paid under the Physical Damage Coverage Section of the policy; and
 - b. Any:
 - (1) Overdue lease / loan payments at the time of the "loss";
 - (2) Financial penalties imposed under a lease for excessive use, abnormal wear and tear or high mileage;
 - (3) Security deposits not returned by the lessor;
 - (4) Costs for extended warranties, Credit Life Insurance, Health, Accident or Disability Insurance purchased with the loan or lease; and
 - (5) Carry-over balances from previous loans or leases.

(Glass Repair – Deductible Amendment)

H. GLASS REPAIR – DEDUCTIBLE

SECTION III – PHYSICAL DAMAGE COVERAGE – D. Deductible is amended by adding the following:

Any deductible shown in the Declarations as applicable to the covered "auto" will not apply to glass breakage if the damaged glass is repaired, rather than replaced.

(Amended Duties in the Event of Accident, Claim, Suit or Loss)

I. AMENDED DUTIES IN THE EVENT OF ACCIDENT, CLAIM, SUIT OR LOSS

Under **SECTION IV – BUSINESS AUTO CONDITIONS, A. Loss Conditions**, the following is added to paragraph **2. Duties In The Event of Accident, Suit or Loss:**

- d. Knowledge of any "accident", "claim", "suit" or "loss" will be deemed knowledge by you when notice of such "accident", "claim", "suit" or "loss" has been received by:
 - (1) You, if you are an individual;
 - (2) Any partner or insurance manager if you are a partnership;
 - (3) An executive officer or insurance manager, if you are a corporation;
 - (4) Your members, managers or insurance manager, if you are a limited liability company; or
 - (5) Your officials, trustees, board members or insurance manager, if you are a not-for-profit organization.

(Waiver of Subrogation by Contract)

J. WAIVER OF SUBROGATION REQUIRED BY CONTRACT

Under **SECTION IV, BUSINESS AUTO CONDITIONS, A. Loss Conditions 5. Transfer of Rights of Recovery Against Others to Us** the following language is added:

However, we waive any rights of recovery we may have against the person or organization with whom you have agreed in writing in a contract, agreement or permit, to provide insurance such as is afforded under the policy to which this endorsement is attached. This provision does not apply unless the written contract or written agreement has been executed, or permit has been issued, prior to the "bodily injury" or "property damage."

(Unintentional Failure to Disclose)

K. UNINTENTIONAL FAILURE TO DISCLOSE

Under **SECTION IV – BUSINESS AUTO CONDITIONS, B. General Conditions**, the following is added to **2. Concealment, Misrepresentation Or Fraud:**

Your unintentional error in disclosing, or failing to disclose, any material fact existing at the effective date of this Coverage Form, or during the policy period in connection with any additional hazards, will not prejudice your rights under this Coverage Form.

(Hired, Leased, Rented or Borrowed Auto Physical Damage)

L. HIRED, LEASED, RENTED OR BORROWED AUTO PHYSICAL DAMAGE

Under **SECTION IV – BUSINESS AUTO CONDITIONS B. General Conditions 5. Other Insurance** Paragraph **5.b.** is replaced by the following:

- b. (1) For "Comprehensive" and "Collision" Auto Physical Damage coverage provided by this endorsement, the following are deemed to be covered "autos" you own:
 - (a) Any Covered "auto" you lease, hire, rent or borrow; and
 - (b) Any Covered "auto" hired or rented by your "employee" under a contract in that individual "employee's" name, with your permission, while performing duties related to the conduct of your business.

However, any "auto" that is leased, hired, rented or borrowed with a driver is not a covered "auto"

(2) Limit of Insurance For This Section

The most we will pay for any one "loss" is the lesser of the following:

- (a) \$75,000 per accident, or
- (b) actual cash value at the time of loss, or
- (c) cost of repair.

Minus a \$500 deductible. An adjustment for depreciation and physical condition will be made in determining actual cash value in the event of a total loss. No deductible applies to "loss" caused by fire or lightning.

(3) This Hired Auto Physical Damage coverage is excess over any other collectible insurance.

(4) Definitions For This Section

- (a) Comprehensive Coverage: from any cause except the covered "auto's" collision with another object or the covered "auto's" overturn. We will pay glass breakage, "loss" caused by hitting a bird or animal and, "loss" caused by falling objects or missiles.
- (b) Collision Coverage: caused by the covered "auto's" collision with another object or by the covered "auto's" overturn.

(Mental Anguish)

M. MENTAL ANGUISH

Under **SECTION V – DEFINITIONS**, **C.** is replaced by the following:

C. "Bodily injury" means bodily injury, sickness or disease sustained by a person including mental anguish or death resulting from bodily injury, sickness, or disease.

(Extended Cancellation Condition)

N. EXTENDED CANCELLATION CONDITION

Under **CANCELLATION**, of the **COMMON POLICY CONDITIONS** form, item **2.b.** is replaced by the following:

- b.** 60 days before the effective date of cancellation if we cancel for any other reason.

TEXAS WAIVER OF OUR RIGHT TO RECOVER FROM OTHERS ENDORSEMENT

This endorsement applies only to the insurance provided by the policy because Texas is shown in item 3.A. of the Information Page.

We have the right to recover our payments from anyone liable for an injury covered by this policy. We will not enforce our right against the person or organization named in the Schedule, but this waiver applies only with respect to bodily injury arising out of the operations described in the schedule where you are required by a written contract to obtain this waiver from us.

This endorsement shall not operate directly or indirectly to benefit anyone not named in the Schedule.

The premium for this endorsement is shown in the Schedule.

Schedule

1. ☐ Specific Waiver

Name of person or organization

☒ Blanket Waiver

Any person or organization for whom the Named Insured has agreed by written contract to furnish this waiver.

2. Operations: All Texas operations

3. Premium:

The premium charge for this endorsement shall be **2.00** percent of the premium developed on payroll in connection with work performed for the above person(s) or organization(s) arising out of the operations described.

4. Advance Premium: Included, see Information Page

This endorsement changes the policy to which it is attached effective on the inception date of the policy unless a different date is indicated below.
(The following "attaching clause" need be completed only when this endorsement is issued subsequent to preparation of the policy.)
This endorsement, effective on 1/1/24 at 12:01 a.m. standard time, forms a part of:

Policy no. 0001152369 of Texas Mutual Insurance Company effective on 1/1/24

Issued to: CURTCO INC

This is not a bill



Authorized representative

NCCI Carrier Code: 29939

1/4/24



City of Lucas

City Council Agenda Request

December 5, 2024

Requester: Fire Chief Ted Stephens

Agenda Item Request

Consider authorizing the Mayor to execute the Interlocal Cooperation Agreement For Automatic Fire and EMS Assistance with the City of Wylie, Texas.

Background Information

At the August 3, 2023, Lucas City Council meeting a presentation was provided regarding our automatic and mutual aid provisions, specifically concerning our EMS to the Princeton/Branch area. Councilmember Fisher expressed an interest in reviewing the mutual aid agreements with staff and the city attorney. Staff was tasked with putting a plan together in order to determine what work would need to be done and if a subcommittee will be required.

On August 24, 2023, City Manager Joni Clarke and Fire Chief Ted Stephens met to review all agreements relating to mutual aid and those agreements were previously forwarded to City Attorney Joe Gorfida to evaluate as well.

On September 24, 2023, Councilmember Fisher, Councilmember Lawrence, City Attorney Joe Gorfida, City Manager Joni Clarke, and Fire Chief Ted Stephens met concerning our active automatic and mutual aid agreements.

On November 2, 2023, City Council requested updating the following:

1. Agreement for Mutual Aid executed by the City of Lucas on 2/18/15 and the City of Wylie on 3/8/15
2. Interlocal Automatic Mutual Aid Agreement executed by the Town of Fairview on 6/3/08, the City of Parker on 8/12/08 and the City of Lucas on 9/4/08.

Fire Chief Ted Stephens has been working with the above entities to update the agreements. To date, the Town of Fairview's ILA was executed on April 4, 2024. The City of Parker has the ILA with their city attorney.

Effective October 1, 2024, the City of Wylie became an Emergency Medical Services Provider and was required to execute new ILAs for all their automatic aid cities. This new ILA has small changes in the ILA we presented to them. The main difference in the ILA being presented tonight is section 2.4 Special Response Teams. This section highlights Wylie's special response capabilities that Lucas does not have, specifically their HazMat and Technical Rescue Response Teams. The ILA being presented tonight has been approved by City Attorney Joe Gorfida.



City of Lucas

City Council Agenda Request

December 5, 2024

Attachments/Supporting Documentation

1. Wylie and Lucas Automatic and Mutual Aid ILA-2024

Budget/Financial Impact

NA

Recommendation

Staff Recommends authorizing the Mayor to execute the Wylie and Lucas Automatic and Mutual Aid ILA-2024

Motion

I make a motion to approve/deny authorizing the Mayor to execute the Wylie and Lucas Automatic and Mutual Aid ILA-2024.

**WYLIE AND LUCAS
AUTOMATIC AID AND MUTUAL AID INTERLOCAL AGREEMENT**

THIS INTERLOCAL AGREEMENT is by and between the **CITY OF WYLIE**, a Texas Home Rule Municipal Corporation (Wylie), and the **CITY OF LUCAS**, a Texas Home Rule Municipal Corporation (Lucas), collectively referenced as the Parties, each acting by and through their authorized agents.

RECITALS:

WHEREAS, the Parties are authorized by the Interlocal Cooperation Act, Texas Government Code, Chapter 791, to enter into a joint agreement for the performance of the governmental functions of providing fire department services and emergency medical services; and

WHEREAS, WYLIE and LUCAS are authorized under Section 342.011 of the Texas Local Government Code to provide fire department services and Chapter 774 of the Texas Health & Safety Code to contract with each other to provide emergency medical services; and

WHEREAS, the Parties recognize Mutual and Automatic Aid has been provided in the past and have determined that it is in their best interest to create a plan and foster communication and the sharing of equipment, facilities, and trained personnel in the event of an Emergency; and

WHEREAS, this agreement is not intended to replace or modify the current Agreement for Mutual Aid in Disaster Assistance, as amended between the Parties for Disaster or Civil Emergencies, and assistance under the Agreement shall be considered as “pre-planned” mutual aid response; and

NOW, THEREFORE, in consideration of the mutual promises, benefits, and covenants made herein, the Parties agree as follows:

I. DEFINITIONS

The following words and phrases have the following meanings unless the context clearly indicates otherwise:

- 1.1 Automatic Aid** means immediately dispatching the closest appropriate resource to all designated incidents in either jurisdiction.
- 1.2 Chief** means Fire Chief or Fire Chief’s designee.
- 1.3 Mutual Aid** means the Parties will assist one another by furnishing personnel, equipment, or expertise from the other only when the Requesting Agency is depleted or in need of a specialized resource from the appropriate resources of the other Agency. The Fire Chief or designee will approve such requests.
- 1.4 Requesting Agency** means the Party requesting assistance.
- 1.5 Responding Agency** means the Party providing assistance.
- 1.6 Responsible Party** means any individual, company, organization, or entity that is responsible for causing an emergency response or mitigation for a hazmat release or technical rescue, including:

- a. Current owner and operator of a facility or site,
- b. Past owner and operator of a facility at the time hazardous wastes were disposed of,
- c. Generator and/or entity that arranges for the disposal or transport of the hazardous substance and/or
- d. Transporter of hazardous waste that selected the site where the hazardous substances were brought.

II. PROVIDING AID

2.1 The Parties agree to cooperate in providing aid with fire and EMS personnel for fire service, EMS, technical rescue response, hazardous materials response, securely sharing sensitive and non-sensitive information and records, and providing additional resources and equipment outside their jurisdictions, subject to availability and the Chief's discretion.

2.1.1. Requesting Aid. The Requesting Agency's Chief or designee should request aid, including the amount and type of equipment and/or resources, the number of personnel, and the specific dispatch location.

2.1.2. Providing Aid. The Providing Agency's Chief or designee, in his or her sole discretion, has determined sufficient personnel, equipment, and resources are available for the specific assignment. The health, safety, or welfare of the Responding Agency's citizens will not be endangered by dispatching personnel or equipment or resources outside of the Responding Agency's jurisdictional limits. If the agreed upon response from Responding Party is not available or is temporarily depleted, the Responding Party department will advise the Requesting Party department and the Responding Party department shall not be required to respond; provided, however, a fill-in company which is in quarters at a fire station of the Responding Party department that is the subject of this Agreement shall respond, if available. It is recognized that each Party has the duty and responsibility of rendering services to citizens of that Party's Jurisdiction. In the performance of the services under this Agreement, the Responding Party shall have the sole discretion to determine the priorities in the dispatching and use of equipment and personnel. The Requesting Party understands that the availability of the Responding Party's equipment and personnel will be subject to the demands within the Responding Party's Jurisdiction, which will in all cases take priority, as well as other existing interlocal and mutual aid agreements. Each Party agrees and understands that the other Party will at no time reduce capacity to respond to the needs of the citizens of the Requesting Party.

2.2 Automatic Aid Response to Fire and Emergency Medical Services.

- a. **Automatic Aid.** Each Party will respond with Automatic Aid for any call for service from the other Party's jurisdiction for all call types (natures) as determined by the dispatch center.

2.3 Mutual Aid Response to Fire and Emergency Medical Services.

- a. **Mutual Aid.** Each Party will request Mutual Aid response for calls for service from the other Party's jurisdiction only when the requesting jurisdiction has no appropriate units available, and the responding agency has the capacity to assist.

2.4 Special Response Teams.

- a. **Wylie Hazmat Response.** Wylie will invoice any Responsible Party for a Hazmat Response.

If Lucas is the Responsible Party, Wylie will invoice Lucas only for supplies and consumables. Wylie will not invoice Lucas for personnel time related to a Hazmat Response.

- b. **Wylie Technical Rescue Response.** Wylie will invoice any Responsible Party for a Technical Rescue Response. If Lucas is responsible, Wylie will invoice Lucas only for supplies and consumables. Wylie will not invoice Lucas for personnel time related to a Technical Rescue Response.

III. PARTY RESPONSIBILITIES

3.1 Funds. The Responding Agency provides aid with available funds from current revenues. Neither Party is liable for failing to expend unbudgeted funds to provide aid.

3.2 Command. Responding personnel are under the command of the Requesting Agency's Chief or his/her designee, have the same powers as the Requesting Agency's personnel, and are deemed acting as personnel of the Requesting Agency regardless of compensation when responding to an incident. At no time will the Responding Agency's employees be considered employees of the Requesting Agency.

3.3 Authority. Personnel have the same fire and emergency medical services authority as if acting in their jurisdiction, and no other oath, bond, or compensation needs to be made or posted.

3.4 Communication. Communication between the Parties is determined by the Requesting Agency's officer in command of the incident. When practical, the primary means of communication shall be by telephone or two-way radio communications, either mobile-to-mobile or mobile-to-base, with the Requesting Agency providing communication center coordination. Routine day-to-day communications for aid are done by the most practical means.

3.5 Release of Aid. The Responding Agency's personnel will be released by the Requesting Agency when they are no longer needed. The Chief of the Responding Agency may at any time, in the Chief's sole discretion, withdraw the Responding Agency's aid or discontinue participation in any response.

3.6 Compensation. Personnel who are assigned, designated, or ordered by proper authority to perform duties pursuant to this Agreement shall continue to receive the same wages, salary, pension, and other compensation and benefits for the performance of such duties, including injury or death benefits, disability payments, and workers' compensation benefits, as though the service had been rendered within the limits of the City where the personnel are regularly employed. Moreover, all medical expenses, wage and disability payments, pension payments, damage to equipment and clothing shall be paid by the Party in which the employee in question is regularly employed.

3.7 Vehicles, Equipment, and Supplies. Each Party will be responsible for the purchase, maintenance, and replacement of that Party's vehicles, equipment, resources, and supplies.

3.8 Term and Termination. The initial Agreement term is one (1) year. The Agreement will automatically renew for successive one (1) year terms after the initial term, until terminated. Any Party wanting to terminate this Agreement must provide written notice to the other Party no less than thirty (30) days before the termination date.

IV. GENERAL TERMS

4.1 Interlocal Cooperation Act. The Parties to this Agreement are local governments as defined in the Interlocal Cooperation Act. Nothing in this Agreement will be construed as a waiver or relinquishment by either Party of its right to claim such exemptions, privileges, and immunities as may be provided by the Constitution and the laws of the State of Texas. No separate legal entity is created by this Agreement.

4.2 Amendment. The terms and conditions of this Agreement may be amended upon written mutual consent of each governing body.

4.3 Hold Harmless. To the extent permitted by the Constitution and the laws of the State of Texas, and subject to the limitations as to liability and damages in the Texas Tort Claims Act, and without waiving its governmental immunity, each Party agrees to hold harmless each other, its governing board, officers, agents, and employees for any liability, loss, damages, claims, or causes of action caused or asserted to have been caused directly or indirectly by any other party to this Agreement or any of its officers, agents, or employees, or as the result of its performance under this Agreement. Each Party remains solely responsible for any legal defense and any civil liability due to the acts or omission of each Party's employees. Notwithstanding any other terms in this Agreement, nothing is construed as a waiver of any legal defense or remedy of any nature to any claim against a Party.

4.4 Insurance. The Parties must maintain statutory workers' compensation coverage on each Party's employees, and each must carry additional insurance against public liability for injury to persons including death and property damage arising out of or in connection with this Agreement. Limits of liability of such insurance policies shall be in an amount not less than **\$1,000,000.00 per occurrence with a \$2,000,000.00 aggregate.**

4.5 Automobile Liability Coverage. Each Party shall be responsible for its own actions and is responsible for complying with the Texas motor vehicle financial responsibility laws.

4.6 Entire Agreement. This Agreement contains the entire agreement between the Parties and supersedes any and all prior agreements, arrangements, and understandings between the Parties relating to the subject matter of this Agreement. No oral understandings, statements, promises, or inducements contrary to the terms of this agreement exist. This Agreement cannot be changed or terminated orally. No verbal agreement or conversation with any officer, agent, or employee of any Party before or after the execution of this Agreement shall affect or modify any of the terms or obligations hereunder.

4.7 Venue and Choice of Law. This Agreement has been made under and shall be governed by the laws of the State of Texas. Performance and all matters related thereto shall be in Collin County, Texas, United States of America, and the venue shall be in any court having jurisdiction in Collin County.

4.8 Authority to Contract. Each Party has the full power and authority to enter into and perform this Agreement and the person signing this agreement on behalf of each Party has been properly authorized and empowered to enter into this Agreement. The persons executing this agreement hereby represent they have authorization to sign on behalf of their respective governmental bodies.

4.9 Waiver. Failure of any Party, at any time, to enforce a provision of this Agreement, shall in no way constitute a waiver of that provision, nor in any way affect the validity of this agreement, any part hereof, or the right of either Party thereafter to enforce each and every provision hereof. No term of this Agreement shall be deemed waived or breach excused, unless the waiver shall be in writing and signed by the Party claimed to have waived. Furthermore, any consent to or waiver of a breach will not constitute consent to, waiver of, or excuse of any other different or subsequent breach.

4.10 Savings Clause. If one or more provisions or terms contained in this Agreement shall, for any

Automatic Aid and
Mutual Aid ILA

reason, be held invalid, illegal, or otherwise unenforceable, such invalidity, illegality, or unenforceability shall not affect any other provision or term hereof and this Agreement shall be construed as if such invalid, illegal, or unenforceable provision or term had never been contained herein.

4.11 Multiple Originals. It is understood and agreed this Agreement may be executed in a number of identical counterparts, each of which shall be deemed an original for all purposes.

4.12 Effective Date. This Agreement is effective when signed by the last Party signing, thereby making the Agreement fully executed.

4.13 Prior Agreement. On the Effective Date, this Agreement will terminate the previous Mutual Aid Agreement dated February 15, 2015.

4.14 Notice. Any official notices by one Party to another must be in writing and sent by certified mail return receipt requested, and properly addressed to the respective Parties as stated below. Any other day-to-day communication by the Parties' staff may be by any other means of sufficient communication.

If intended for Lucas, to:

Attn: John Whitsell
City Manager
City of Lucas, Texas
665 Country Club Road
Lucas, Texas 75002

With a copy to:

Ted Stephens
Fire Chief
Lucas Fire-Rescue
165 Country Club Road
Lucas, Texas 75002

With a copy to:

Attn: Joe Gorfida
City Attorney
Nichols, Jackson, Dillard,
Hager & Smith, L.L.P.
Suite 1800, Ross Tower
500 N. Akard Street
Dallas, Texas 75201

If intended for Wylie, to:

Attn: Brent Parker
City Manager
City of Wylie, Texas
300 Country Club Road
Wylie, Texas 75098

With a copy to:

Attn: Brandon Blythe
Fire Chief
Wylie Fire Department
2000 N. State HWY 78
Wylie, Texas 75098

With a copy to:

Attn: Ryan D. Pittman
Abernathy Roeder Boyd & Hullett, P.C.
1700 Redbud Blvd. Ste. 300
McKinney, Texas 75069

[Signature Pages Follow]

EXECUTED this _____ day of _____, 2023 by **City of WYLIE.**

CITY OF WYLIE

By:

Mayor

ATTEST:

APPROVED

City Secretary

City Manager

City Attorney

Assistant City Manager/CFO

EXECUTED this _____ day of _____, 2023 by **City of LUCAS**.

CITY OF LUCAS

By:

Mayor

ATTEST:

APPROVED AS TO FORM:

City Secretary

City Attorney



City of Lucas

City Council Agenda Request

December 5, 2024

Requester: City Council

Agenda Item Request

Consider Parks and Open Space Board appointments to serve a two-year term beginning on January 1, 2025, and expiring on December 31, 2026, for the following:

A. Parks and Open Space Board (also serving as the Lucas Farmers Market Committee)

Background Information

Per the Board Appointment Policy established in December 2019, new board/commission applications are submitted to the City Council during November to consider prospective applicants to be interviewed for vacant positions or possible appointments.

City Secretary Toshia Kimball has contacted existing board/commission members whose terms are expiring this year to confirm if they would like to be considered for reappointment.

Parks and Open Space Board (Also Serves as Lucas Farmers Market Committee)	
John Elliott, Vice Chair	Yes
Laura Giles, Member	No
Christel Parish, Member	Yes
Joan Phillips, Member	Yes
Vacant, Alternate Member 2	

Attachments/Supporting Documentation

1. Board Appointment Policy
2. Candidate Interview List and Applications will be sent out as a separate attachment to City Council

Budget/Financial Impact

NA

Recommendation

NA

Motion



City of Lucas

City Council Agenda Request

December 5, 2024

Item No. 09

I make a motion to reappoint the following to the Parks and Open Space Board (also serving as the Lucas Farmers Market Committee) for two-year terms beginning on January 1, 2025, and expiring on December 31, 2026:



City of Lucas

BOARD APPOINTMENT POLICY

PURPOSE

The purpose of the Board Appointment Policy is to provide procedures and standards for the appointment process by the City Council, and guidelines for citizens being appointed to a City of Lucas board or commission.

APPLICATION PROCESS

The City of Lucas will advertise in the Lucas Leader and on the City website during the months of September and October each year for the recruitment of new board members.

A Meet and Greet reception will be held on the 4th Thursday in October at 6:30 pm at City Hall for citizens interested in serving on a board as well as existing board members. The reception will provide an opportunity for each City Council liaison to provide information on the board/commission they represent.

Board applications will be accepted through November 1st each year.

New board member applications will be submitted to the City Council for review at the first meeting in November, and the City Council will determine which prospective applicants they would like to interview.

Interviews with the City Council may take place at the second meeting in November.

Prospective applicants of the Board of Adjustment and Planning and Zoning Commission may meet with City Councilmembers during Executive Session. Prospective applicants of the Parks and Open Space Board and Technology Committee may meet with the City Council during the open regular session of the meeting and may be called upon to speak at the podium with the City Council.

During the interview process in Executive Session or during the regular open session meeting, a prospective board member may expect to be asked about the following items:

- Why the applicant would like to serve their community
- What experience the applicant could bring to a board/commission
- What is the applicant's vision for the City
- How the applicant's skillset would benefit the board they are interested in serving
- Any other questions the City Council deems appropriate for that board/commission

APPOINTMENT PROCESS FOR NEW BOARD MEMBERS

At the first City Council meeting in December, board member appointments will be placed on the City Council agenda.

Following City Council appointment, the City Secretary will notify new board members of their appointment along with procedures for setting up email and appropriate training.

Each new board member will be required to take part in Open Meetings Act training (50-minute video on Attorney General's website), sign a Statement of Officer paperwork and Oath of Office paperwork within 30 days of being appointed. Each new board member will also be required to setup a City of Lucas email account where the City will correspond with the board member for meeting notices, Board packet distribution, and general correspondence.

REAPPOINTMENT PROCESS FOR EXISTING BOARD MEMBERS

In October each year, the City Secretary shall contact existing board members whose terms are expiring confirming they would like to be considered for reappointments.

At the first City Council meeting in December, reappointment of existing board members whose term are expiring will be considered. Board member attendance may be brought before the City Council as part of reappointment consideration.

The City Council will review each board and vote upon each board member whose term is expiring.

The City Secretary shall contact each board member who was reappointed for another two-year term.

For any existing board members that would like to serve on a different board, a new application shall be completed and submitted for City Council consideration.

Approved by City Council: December 19, 2019



City of Lucas

City Council Agenda Request

December 5, 2024

Item No. 10

Requester: Mayor Dusty Kuykendall

Agenda Item Request

Executive Session:

- A. The City Council will convene into Executive Session pursuant to Section 551.074(a)(1) of the Texas Government Code, Personnel Matters, to deliberate the appointment of members to the Planning and Zoning Commission and the Board of Adjustments.

Background Information

This meeting is closed to the public as authorized by Section 551.074(a)(1) of the Texas Government Code.

Attachments/Supporting Documentation

NA

Budget/Financial Impact

NA

Recommendation

NA

Motion

NA



City of Lucas

City Council Agenda Request

December 5, 2024

Item No. 11

Requester: City Council

Agenda Item Request

Reconvene from Executive Session and take any action necessary as a result of the Executive Session.

Background Information

NA

Attachments/Supporting Documentation

NA

Budget/Financial Impact

NA

Recommendation

NA

Motion

NA