PUBLIC NOTICE

SPECIAL MEETING/WORKSHOP

AGENDA

LOCKHART CITY COUNCIL

TUESDAY, APRIL 13, 2021

CLARK LIBRARY ANNEX-COUNCIL CHAMBERS 217 SOUTH MAIN STREET, 3rd FLOOR LOCKHART, TEXAS

6:00 P.M.

- CALL TO ORDER Mayor Lew White
- DISCUSSION/ACTION ITEMS
 A. Discussion and/or action regarding Downtown capital improvement projects.
- 3. ADJOURNMENT

Posted on the bulletin board in the Municipal Building, 308 West San Antonio Street, Lockhart, Texas, on the 9th day of April 2021 at 3:30 p.m.



Lockhart Downtown Improvements Project



- Project Overview
- Additional Scope Items to Consider
- Estimated Costs
- Work to Do / Schedule

Project Overview



- 2015 Bond Program
 - 9 12 square block centered on Courthouse
 - Water Main Replacement
 - Sewer Main Replacement
 - Storm Drain Improvements
 - Street Improvements

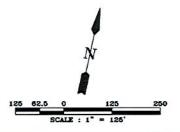


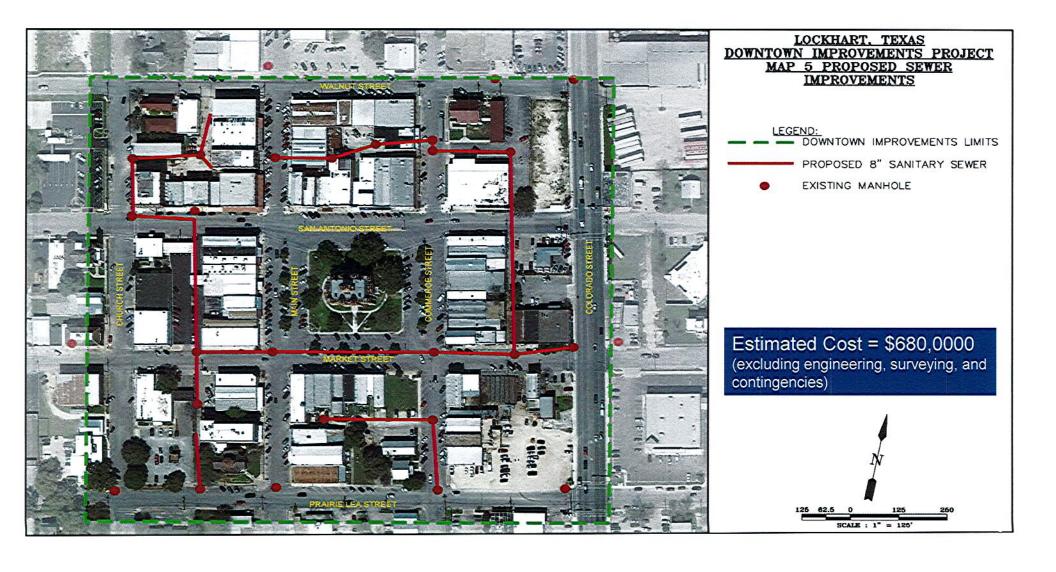


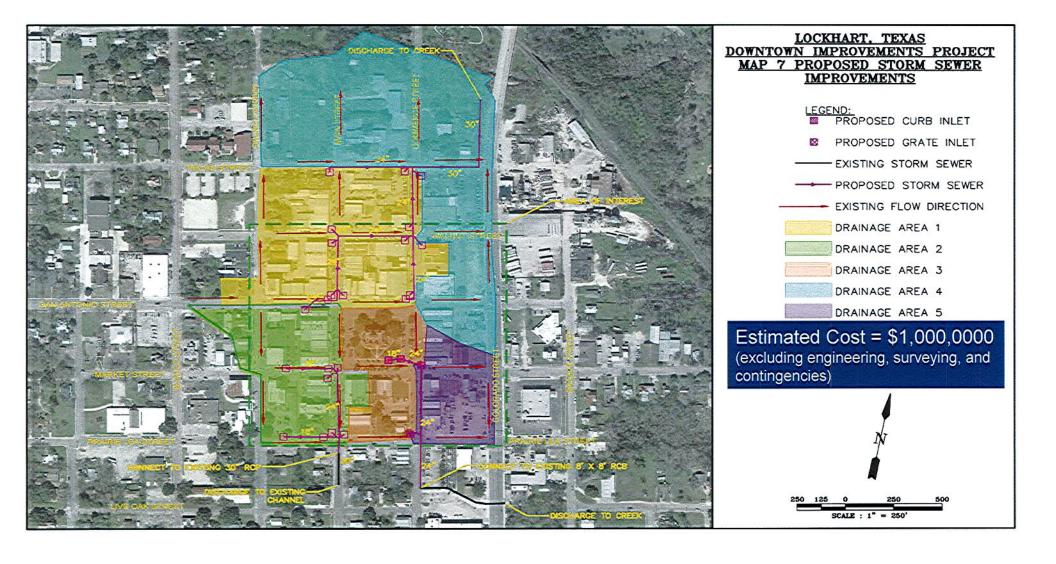
LOCKHART, TEXAS DOWNTOWN IMPROVEMENTS PROJECT MAP 3 PROPOSED WATER IMPROVEMENTS

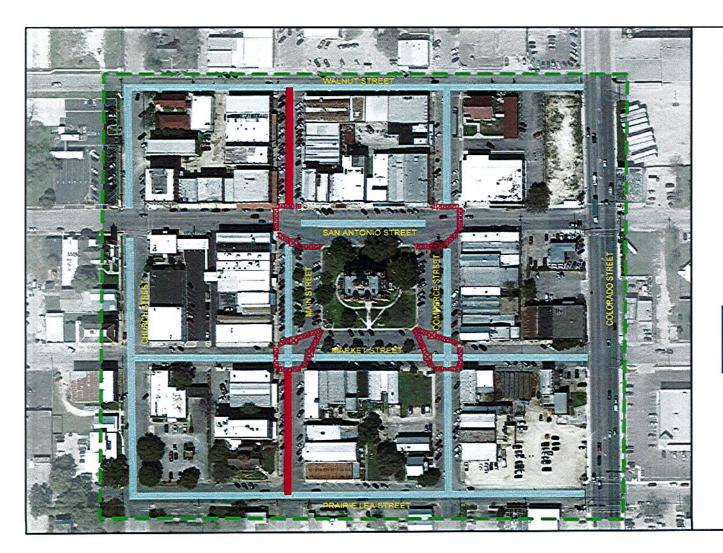
PROPOSED 8" WATER MAIN

Estimated Cost = \$650,0000 (excluding engineering, surveying, and contingencies)









LOCKHART, TEXAS DOWNTOWN IMPROVEMENTS PROJECT MAP 8 PROPOSED STREET IMPROVEMENTS

LEGEND:
DOWNTOWN IMPROVEMENTS LIMITS

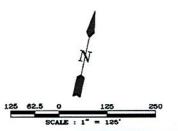
PROPOSED 3" MILL & OVERLAY

PROPOSED RECONSTRUCTION

PROPOSED CROSSWALK

PEDESTRIAN REFUGE

Estimated Cost = \$1,400,000 (excluding engineering, surveying, and contingencies)



Opinion of Probable Cost



2015 Bond Program

- Water Main Replacement = \$650,000
- Sanitary Sewer Main Replacement = \$680,000
- Storm Drain Improvements = \$1,000,000
- Street Improvements = \$1,400,000

Construction Cost = \$3,730,000

Contingencies, Engineering, Surveying (30%) = \$1,120,000

TOTAL PROJECT COST = \$4,850,000

Additional Scope Items to Consider



- Sidewalk / Pedestrian Safety Improvements
 - Sustainable Places Project
- Lighting or other electrical design
- Landscape design and other aesthetic improvements
 - Alleyway enhancements
 - Remove flagpoles?
 - Decorative street and wayfinding signs
- Public relations during design and construction
- On-site inspector during construction
- Construction phasing

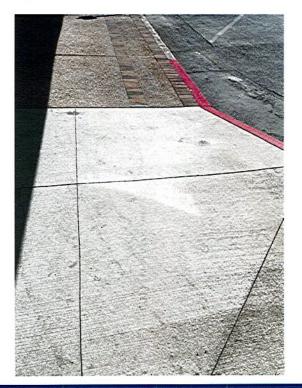
Existing Sidewalk



Commerce St across from Courthouse



Corner of Commerce and San Antonio



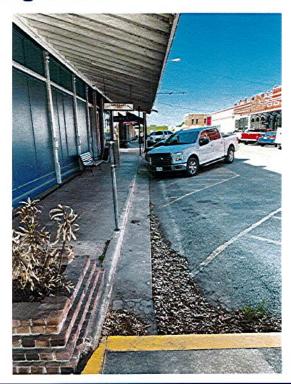
Existing Sidewalk



Corner of Main and San Antonio – Looking West



Corner of Main and San Antonio – Looking North



Existing Sidewalk



Corner of Commerce and Prairie Lea – Looking North



Corner of Main and Prairie Lea – Looking North



Existing Crosswalk



Corner of Commerce and San Antonio – Looking West



Corner of Commerce and San Antonio – Looking West



Existing Crosswalk



Corner of Main and Market – Looking East

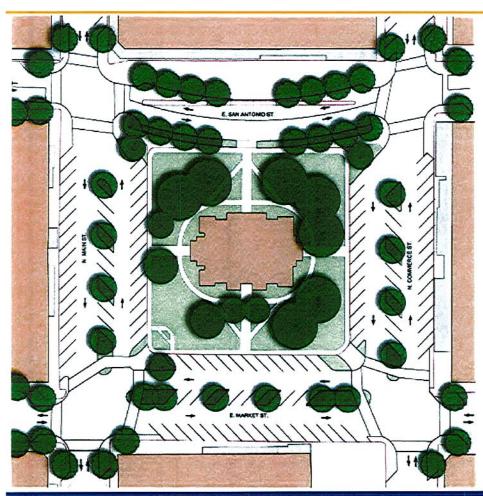


Corner of Commerce and Market – Looking West



The Sustainable Places Project – Planning Study





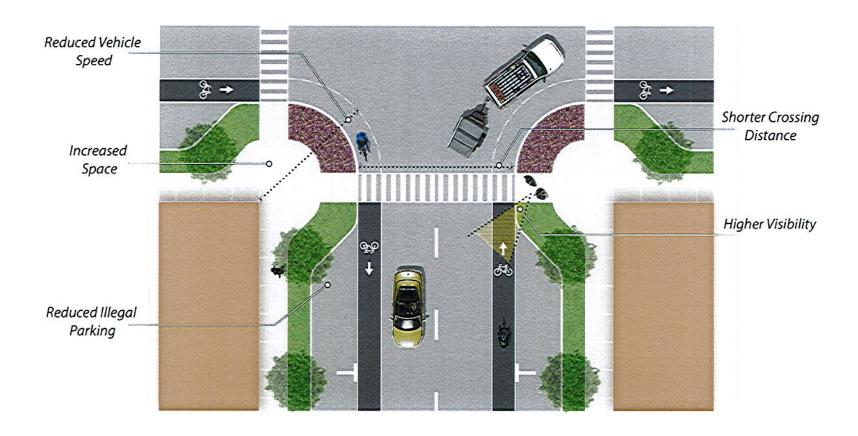
Recommended Plan for Courthouse Square

Pros	Cons
Revitalize Downtown	Added cost
	Some loss of parking (approx. 9 spots)
	Changes traffic pattern on San Antonio St
	Requires license agreements or rights-of-way adjustment
Creates Public Plaza	
Supported by TxDOT – Increased Vehicular Safety	

*Also recommends coordination w/ TxDOT to prohibit truck through traffic between SH 130 and US183 on San Antonio



Sidewalk Improvements – Common Curb Bulb Outs TRC







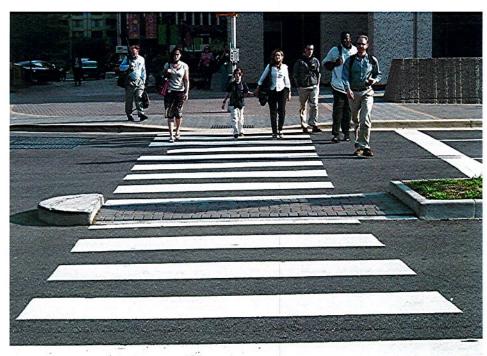




Sidewalk Improvements – Pedestrian Refuges

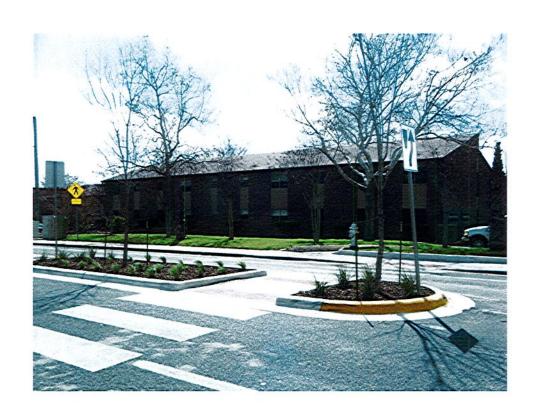






Sidewalk Improvements – Pedestrian Refuges











- Lighting that is mounted less than 15 feet above ground
- Improves Pedestrian Safety
 - Reduces traffic injuries
 - Reduces crime
 - Improved perceived walking comfort
- Expensive relative to other pedestrian safety improvements
- Other considerations:
 - Uniformity
 - Glare
 - Aesthetic
 - Color
 - Light Trespass



Pedestrian Scale Lighting - Examples





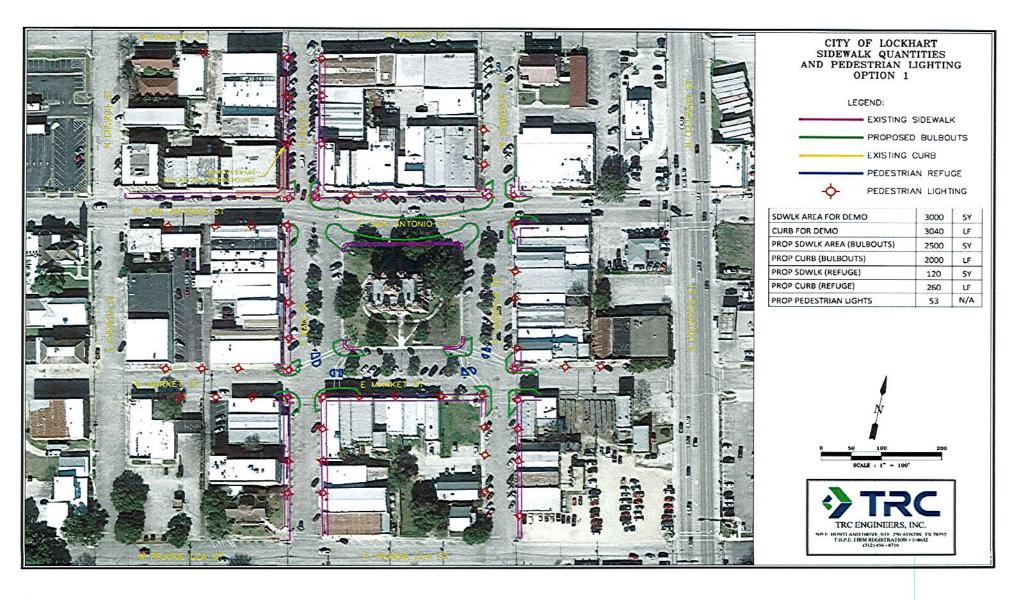


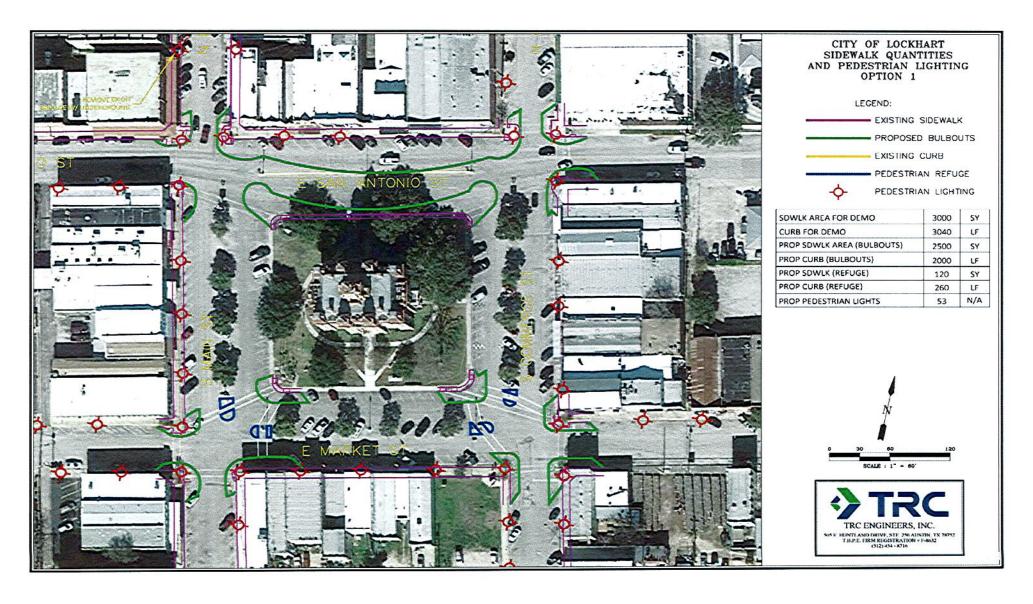


Pedestrian Scale Lighting - Examples

















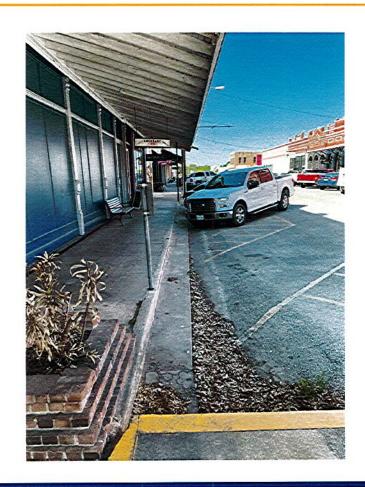


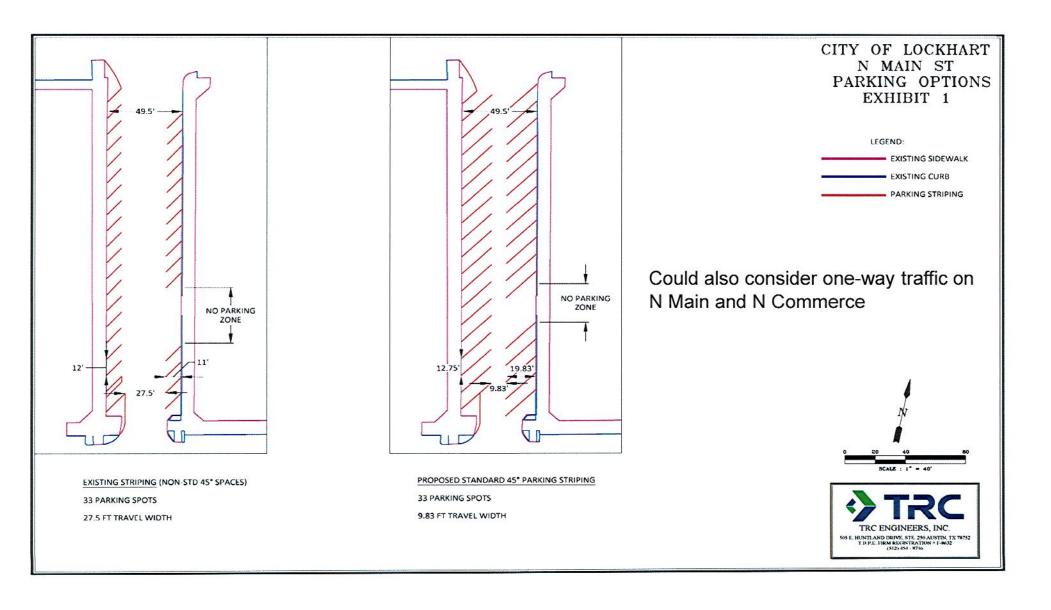
- Sidewalk Option 1 (Sustainable Places / Plaza on San Antonio) = \$1,600,000
- Sidewalk Option 2 (No Plaza) = \$1,060,000
- Total Sidewalk Replacement + Plaza = \$2,740,000
- Just Bulbouts = \$600,000
- Electrical
 - Street Lights = \$670,000
 - Remove OH Pole at N Main St = \$190,000

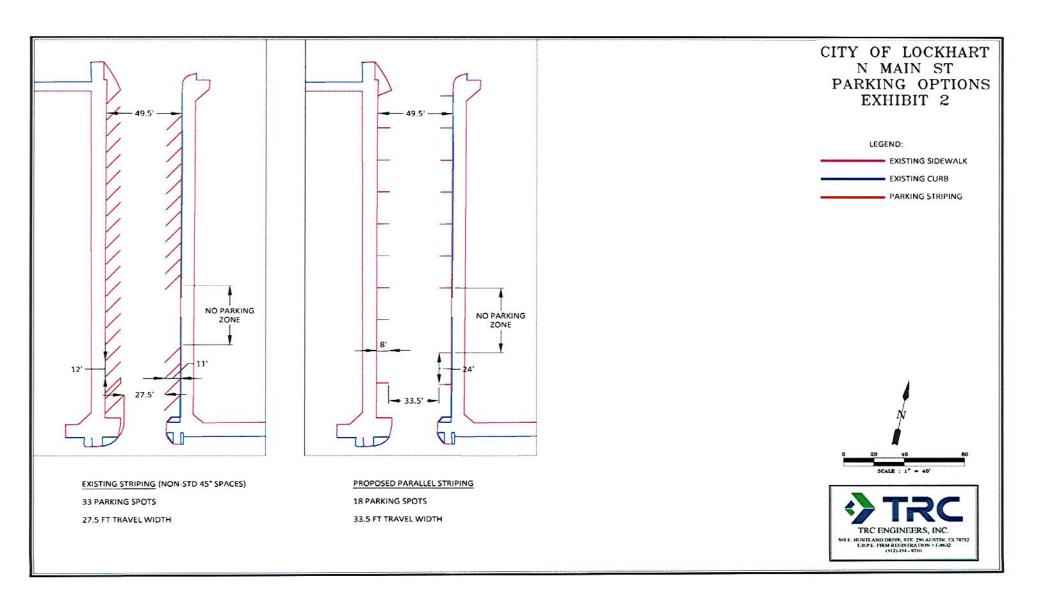
N Main Street Parking

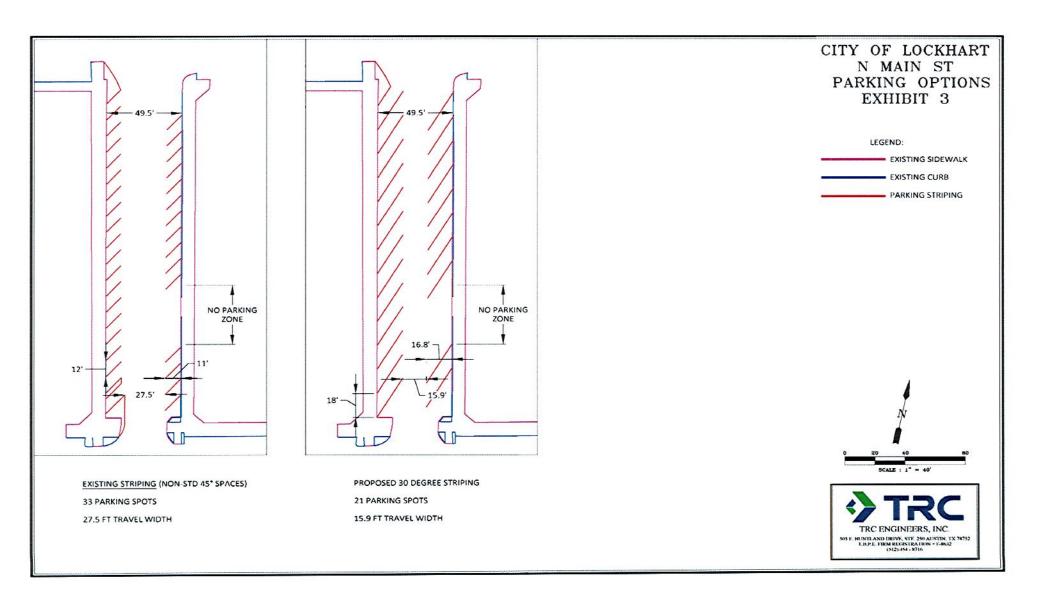














Thank You

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Lockhart Downtown Improvements Project



- Project Overview
- Work Completed
- Additional Scope Items to Consider
- Estimated Costs
- Work to Do / Schedule

Project Overview



- Capital Improvements Program (CIP)
 - 9 12 square block centered on Courthouse
 - Water Main Replacement
 - Sewer Main Replacement
 - Storm Drain Improvements
 - Street Improvements



Project Overview



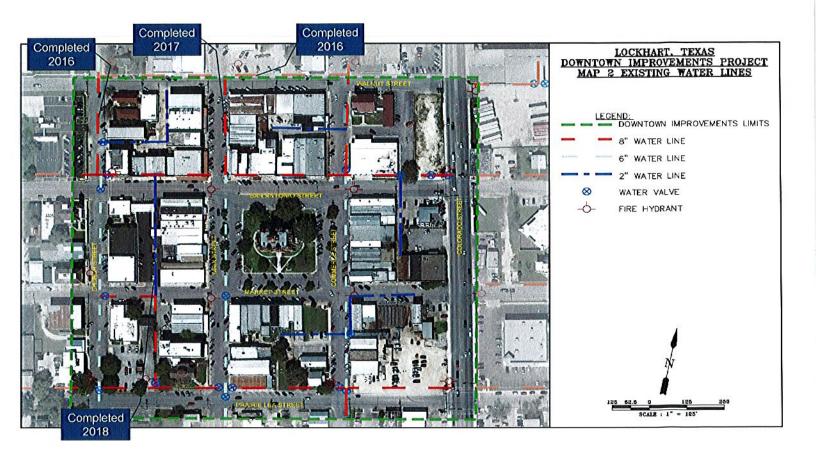
- TxDOT Safe Routes to School (SRTS) Grant
 - SH 142 / San Antonio Street @ Courthouse
 - Pedestrian + Vehicular Mobility Improvements
 - Encourage safe pedestrian access
 - Improve vehicle circulation and turning movements
 - Sidewalk improvements
 - Drainage and Street Improvements

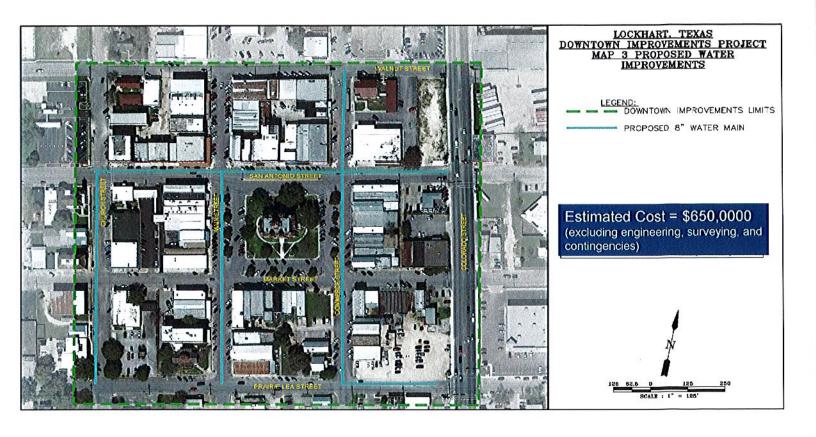


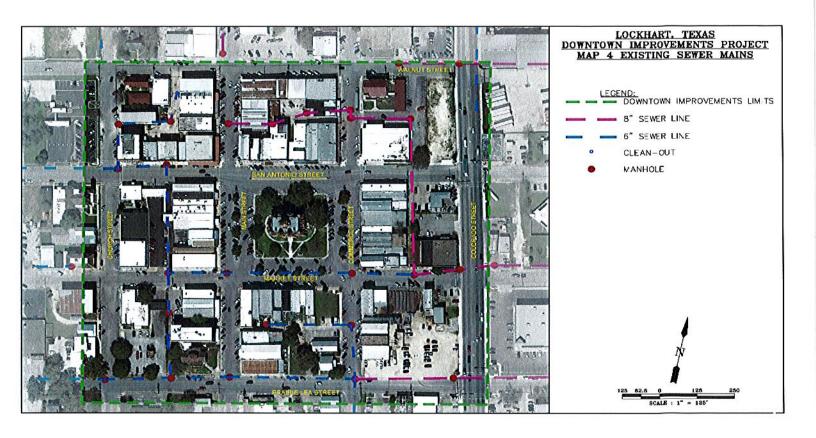
Work Completed to Date

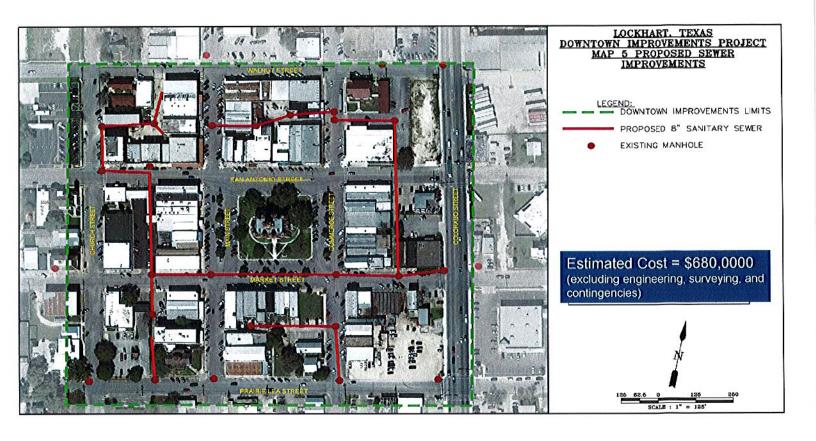


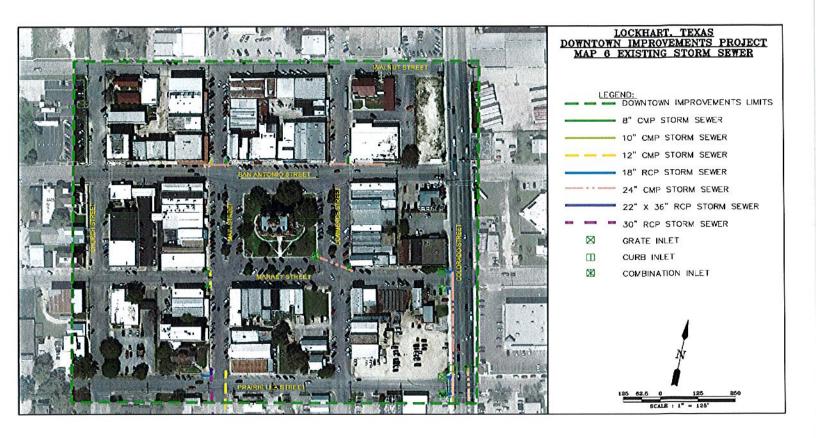
- CIP
 - Attended planning meetings w/ City
 - Topographical Survey
 - Updated Preliminary Layouts
 - Updated Opinions of Probable Cost
 - Completed Preliminary Drainage Design + Report January 2020
- TxDOT SRTS Grant
 - Attended planning meetings w/ City and Landscape Architects
 - Updated Opinion of Probable Cost
 - City Submitted Preliminary Application in April 2019
 - City Submitted Final Application in August 2019
 - City notified it was <u>not</u> awarded the grant in February 2020
- Development of Final Design Scope
 - February March 2020
 - COVID March 2020

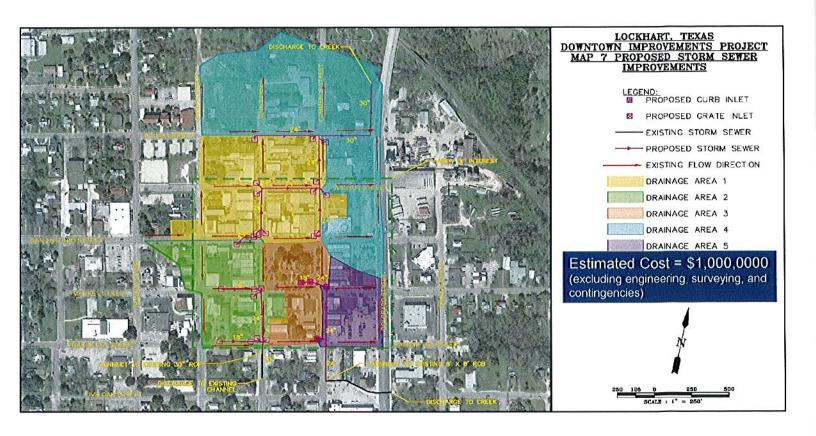


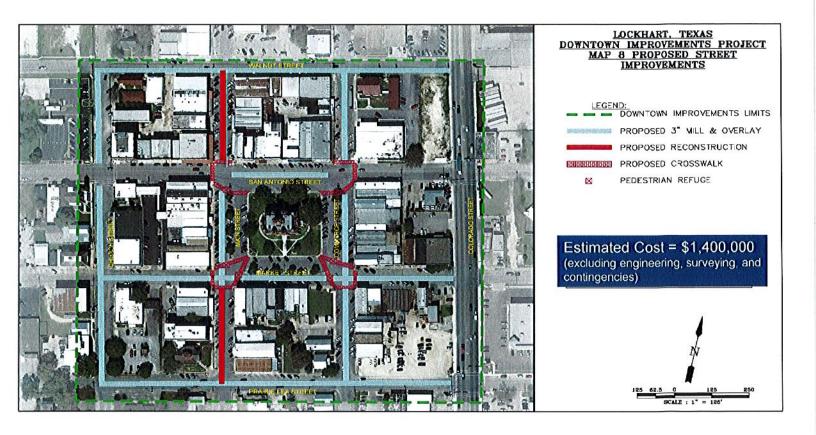












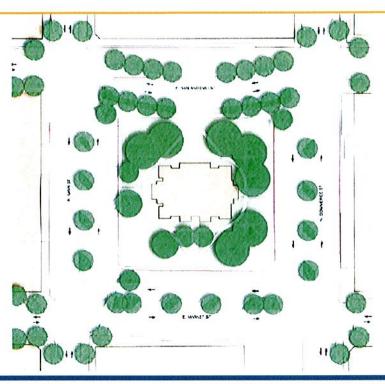
Additional Scope Items to Consider



- Lighting or other electrical design
- SRTS / Sustainable Places Projects Improvements
 - Plaza on San Antonio Street
 - Improved Vehicular and Pedestrian Mobility
- Use of pavers for crosswalks or traditional striping
- Landscape design and improvements
- Sidewalk improvements for all or a portion of the sidewalks within project limits
- Project representative during design for public relations
- On-site inspector during construction
- Construction Phasing







Pedestrian Supportive Design



- Striped Crosswalks
- Pedestrian Refuge / Raised Median
- Curb Extensions / Bulb-outs









Construction Concerns



- Goal: Minimize disruptions to local business
- Project Phasing
 - 1 block at a time: 1-2 months per block
- Contractor Incentives
 - Liquidated Damages
 - Bonus for Early Finish
- Public Relations / Stakeholder Engagement
 - Project listening sessions
 - Seek comments from downtown businesses and residents

Opinion of Probable Cost



- CIP
 - Est. Total Project Cost = \$4.9 million
 - Only covers infrastructure improvements in CIP

TxDOT SRTS Grant

- Est. Total Project Cost = \$1.6 million
- Only applied to San Antonio Street improvements
- Would have removed \$560,000 from CIP

Additional Improvements

- Not covered in CIP
- Sidewalk, Lighting, Landscaping, Public Relations, Construction Phasing, Inspections
- Est. Costs = \$1 \$3 million



Work To Do / Schedule



- Finalize Scope of Improvements
- Final Design: 9 12 months*
- Bidding / Construction: 18 24 months*
 - *Start date and length of time pending inclusion of additional scope items



Thank You

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Lockhart Downtown Improvements Project



PREPARED BY:



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T.B.P.E. FIRM REGISTRATION # F-8632
TRC Project No. 292342

JEFFREYA DAHM 114235 CENSEO

JANUARY 2020

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Map 6 Existing Storm Drain
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Oninion of Probable Construction Costs

Introduction

The Downtown Drainage Project is part of a Capital Improvements Program (CIP) that focuses on improvements in a nine square block area centered around the Lockhart Courthouse, as shown in Map 1 of Appendix A. The project area is located in downtown Lockhart between Walnut Street to Prairie Lea Street and Church Street to Colorado Street. The improvements include water and wastewater replacements in addition to street and storm drain improvements. The primary reasons for the CIP are to update aging water and wastewater infrastructure, modernize the streetscapes and drainage, and improve pedestrian and traffic safety around the County Courthouse. In addition to the CIP, the City of Lockhart has applied for a TxDOT Safe Routes to School (SRTS) Grant to improve pedestrian mobility on San Antonio Street at the Courthouse.

Water Main Improvements

The water lines to be replaced within the project area include 6" and 8" cast iron pipes that are between fifty to seventy years old, as shown in Map 2 of Appendix A. The Public Works Department has replaced or installed approximately 1,220 linear feet of the water lines in the project area within the last several years. In 2016, the Public Works Department installed approximately 970 linear feet of 8" water line along Church Street and Walnut street and in 2017 they installed 250 linear feet of 8" along Main Street. In 2018, a 2" water line was installed in the alley between Church Street and Main Street. The remaining water lines to be replaced within the project area consist of approximately 3,120 linear feet of 8" PVC pipe shown in Map 3 of Appendix A. The portion of work completed by the City has reduced the cost of the CIP project by eliminating the fees for bonds, insurance, labor and other costs associated with hiring a contractor to complete the work. The Engineer's opinion of probable construction cost for the remaining water main improvements is \$650,000, excluding survey, design and contingencies. It is estimated that the work performed by the City reduced the cost of water line replacements by approximately \$100,000.

Wastewater Main Improvements

The existing wastewater mains in the downtown area consist mainly of aging 6" and 8" vitrified clay or cast-iron pipe, as shown in Map 4 of Appendix A. The proposed infrastructure improvements would replace approximately 3,300 linear feet of wastewater with new 8" SDR 26 PVC pipe, as shown in Map 5 of the Appendix A. The Engineer's opinion of probable construction cost for the wastewater main improvements is \$680,000, excluding survey, design and contingencies.

Drainage Improvements

Most of the existing drainage infrastructure in the downtown area is comprised of at-grade culverts under pedestrian ramps as shown in Map 6 of Appendix A. The proposed

improvements would move much of the drainage below ground, modernize the streetscape and remove potential trip and fall hazards caused by the existing culverts.

As part of this scope, the downtown area was surveyed extensively by TRC and analyzed to determine the existing runoff and drainage patterns. The results of the survey were used to develop the preliminary design for the proposed storm drain system. First, the proposed storm drain alignments were laid out to provide an effective and cost-efficient system based on existing drainage patterns. Then the north and south drainage basins were delineated into smaller areas based on proposed inlets located throughout the system. This information was input into Autodesk Storm and Sanitary Analysis 2018, a stormwater analysis software, to determine the sizing of the proposed drainage inlets and pipes based on a design capacity of a 25-year storm event, per City Code. The proposed storm drains and the drainage areas are shown in Map 7 of Appendix A. In general, everything north of the courthouse will drain north and discharge to Town Branch Creek at Colorado Street and everything south of the courthouse will drain south to the existing drainage channel north of Live Oak Street. The results of the modeling indicate that the proposed storm drain improvements are optimally sized to convey stormwater runoff to the north and south discharge locations. The Engineer's opinion of probable construction cost for the storm drain improvements is \$1,000,000, excluding survey, design and contingencies.

Street Improvements

The streets in the downtown area are in need of repairs. Most of the streets will receive a 3" mill and be repaved. Portions of Main Street will be entirely reconstructed, as shown in Map 8 of Appendix A. These sections of Main Street will be raised to reduce the vertical distance between the top of curb and pavement. Improvements will also include reworking the crosswalks and possible addition of pedestrian refuges. Possible improvements to the crosswalks include striping or using hardscape materials such as bricks and stone pavers. Crosswalks across San Antonio street will only be included as part of the TxDOT grant, should it be awarded. The Engineer's opinion of probable construction cost for the street improvements is \$1,400,000, excluding survey, design and contingencies.

TxDOT SRTS Grant

In addition to the CIP Program, the City has applied for the TxDOT Safe Routes to School grant. The grant will cover the costs of street reconstruction, sidewalks and drainage on San Antonio Street between Commerce and Main Streets, and costs for design. The grant will not require a cost match from the City. The sidewalks on the north side of San Antonio Street will be widened to create a plaza like area for businesses to use. Curb bulb-outs would be added at the corners of San Antonio Street to reduce the length of crosswalks, shown below in Figure 1. The estimated project cost is approximately \$1,600,000. It is estimated that the grant could cover up to approximately \$540,000 of improvements to San Antonio Street and the storm drain system that are included in CIP OPCC.

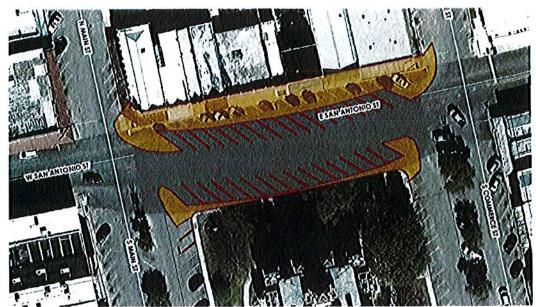


Figure 1 - San Antonio Street Layout

Additional Improvements

Improvements that would not be covered in the CIP such as sidewalks and landscaping could have a wide range of additional costs. It is estimated that these types of improvements could range between an additional \$1 to \$3 million depending on the desired materials and scope of the improvements.

Construction Concerns

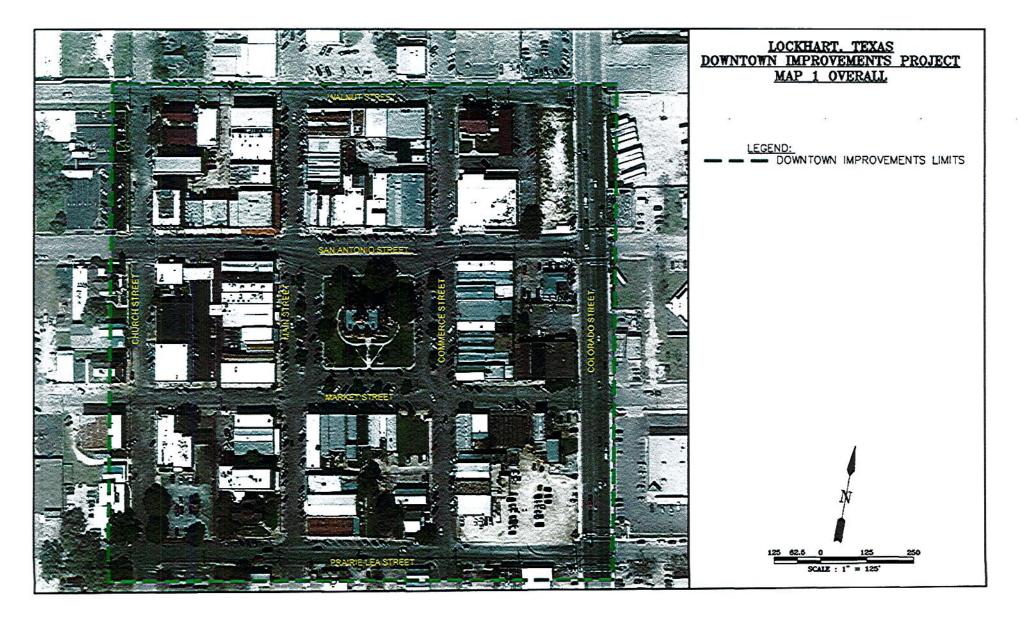
The City has expressed concerns about the effect this project could have on the downtown area and the disruptions it may cause to local businesses and events. Part of the scope of the design process will include public relations and engagement of the affected businesses whose input will considered during design. Construction can be phased so that only one block is shut down at a time to limit interruptions to business and the disruption of traffic. It is anticipated that each block will take approximately one to two months, meaning construction could take up to two years to complete. Special attention will be given to traffic control and pedestrian safety due to the amount of vehicular and foot traffic in the downtown area. Existing utilities could potentially cause construction issues due to the historical nature of the downtown area and possible unknown abandoned utilities.

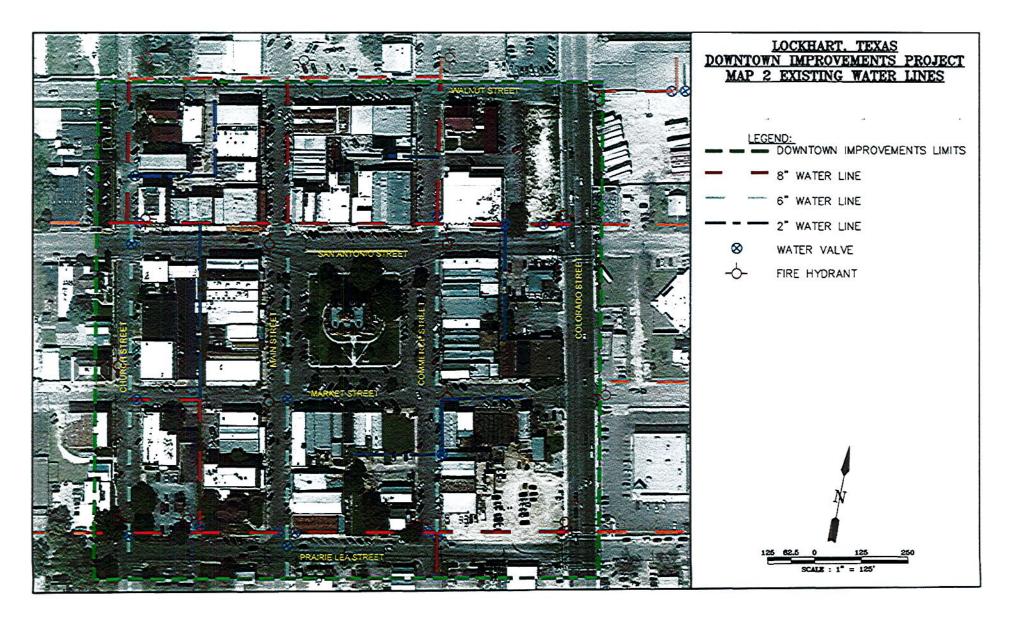
Conclusion

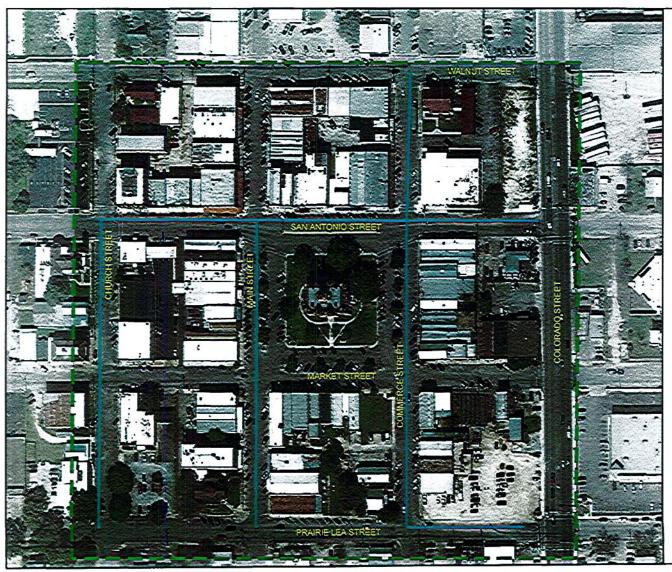
The Lockhart Downtown Improvements Project will focus on infrastructure improvements around the Lockhart County Courthouse. Consideration will be given to concerns of local business and the public during the design process. The proposed Downtown

Improvements Project is estimated to cost a total \$4.85 million. A breakdown of the costs can be found in Appendix B. This cost may be reduced if the City is awarded the TxDOT SRTS grant to improve San Antonio Street.

APPENDIX A PROJECT MAPS



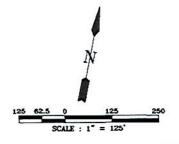




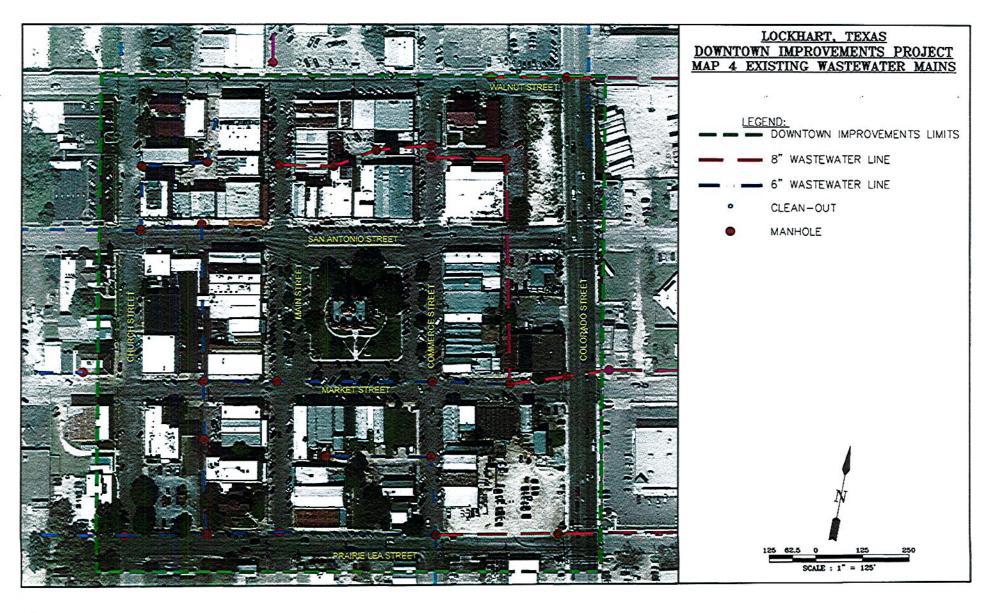
LOCKHART, TEXAS DOWNTOWN IMPROVEMENTS PROJECT MAP 3 PROPOSED WATER IMPROVEMENTS

- PROPOSED 8" WATER MAIN

Item Description	Quantity (LF)	Item Cost
Water Main Replacement	3120	\$650,000.00











LOCKHART, TEXAS DOWNTOWN IMPROVEMENTS PROJECT MAP 5 PROPOSED WASTEWATER **IMPROVEMENTS**

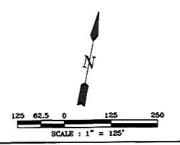
LEGEND:

DOWNTOWN IMPROVEMENTS LIMITS

PROPOSED 8" WASTEWATER

EXISTING MANHOLE

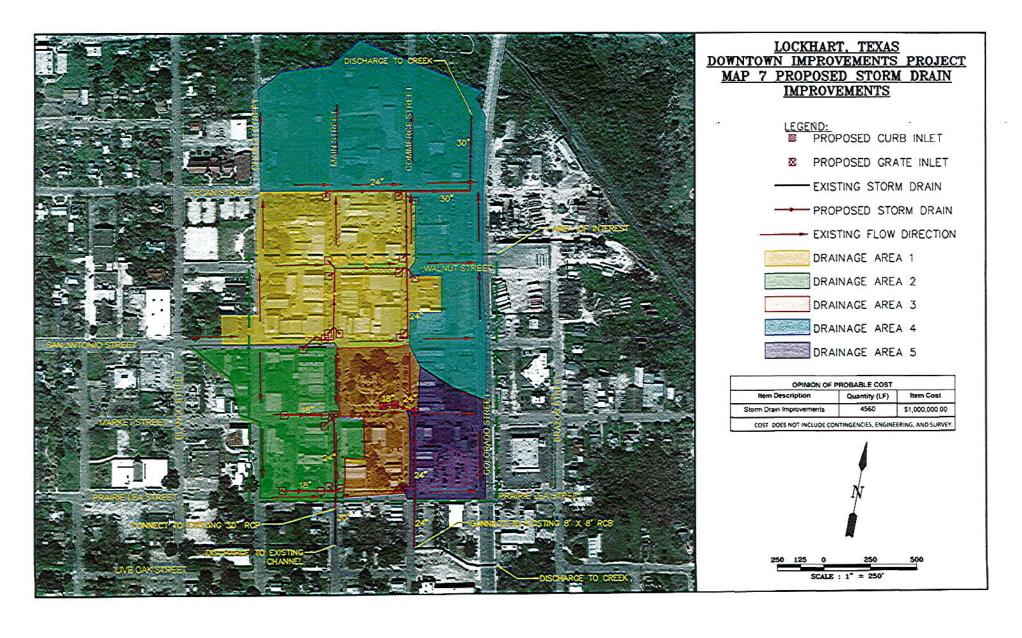
Item Description	Quantity (LF)	Item Cost	
Wastewater Main Replacement	3300	\$680,000.00	

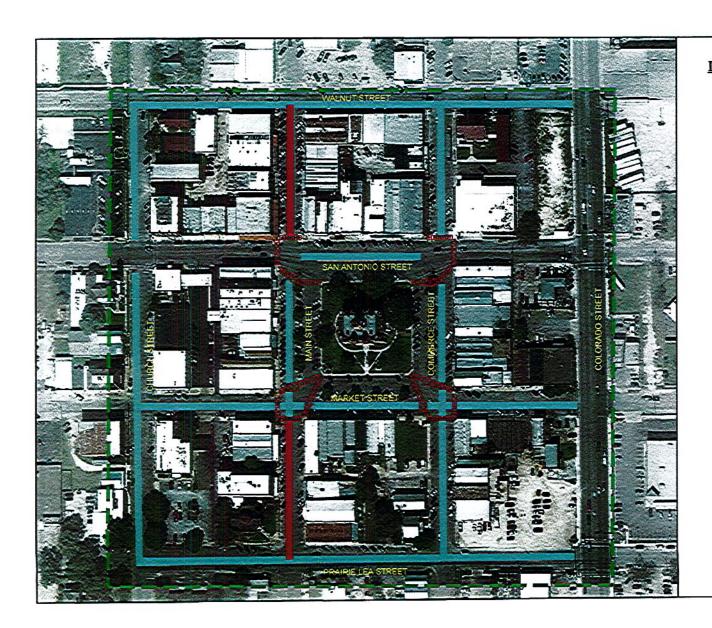












LOCKHART, TEXAS DOWNTOWN IMPROVEMENTS PROJECT MAP 8 PROPOSED STREET **IMPROVEMENTS**

LEGEND:

- DOWNTOWN IMPROVEMENTS LIMITS

PROPOSED 3" MILL & OVERLAY



■ PROPOSED RECONSTRUCTION

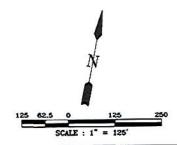


PROPOSED CROSSWALK



PEDESTRIAN REFUGE

Item Description	Quantity (LF)	Item Cost
Street Reconstruction/Paving	10665	\$1,400,000.00





APPENDIX B OPINION OF PROBABLE CONSTRUCTION COSTS

Engineer's Opinion of Probable Construction Costs

	Description	UNITS	Total	Unit Price	Subtotal
	Remove 22" x 36" RCP	LF	0	\$50.00	\$0.00
	Remove 36" CMP	LF	60	\$50.00	\$3,000.00
	Remove 24" RCP	LF	180	\$50.00	\$9,000.00
]	Remove 18" RCP	LF.	0	\$50.00	\$0.00
	Remove 12" CMP	LF	70	\$50.00	\$3,500.00
	Remove 10" RCP	LF	0	\$50.00	\$0.00
]	Remove 8" RCP	LF	0	\$50.00	\$0.00
20	Remove Grate Inlet	EΑ	1	\$50.00	\$50.00
₽,	Install Standard 10' Curb Inlet	ξA	16	\$4,500.00	\$72,000.00
₹	Install Standard 5' Curb Inlet	EA	7	\$4,000.00	\$28,000.00
્રિ	Gate Inlet	EA	3	\$3,500.00	\$10,500.00
erloop	Junction Box	EA	6	\$4,000.00	\$24,000.00
	Install 36" RCP	LF	Ö	\$172.00	\$0.00
}	Install 30° RCP	LF	840	\$155.00	\$130,200.00
Storm Sewer Improvements	Install 24" RCP	LF	2,540	\$150.00	\$381,000.00
	Install 21" RCP	LF	0		\$0.00
	Install 18" RCP	LF	1,180	\$145.00 \$140.00	\$165,200.00
	Install 12" RCP	LF F4	0	\$130.00	\$0.00
	Connect to Ex Storm Sewer	EA	0	\$1,300.00	\$0.00
	Construct Outfall	EA	0	\$3,900.00	\$0.00
	OSHA Trench Protection	LF	4,550	\$2.00	\$9,100.00
	Street Repair	LF	4,550	\$35.00	\$159,250.00
<u>├</u>				\$1,000,000.00	4
1 '	Install 8" Water Main	1.F	3,120	\$50.00	\$156,000.00
	Instali 8" Water Main (By City)	LF	1,220		\$0.00
	Install 6" Water Main	LF	0	\$44.00	\$0.00
	Install 2" Water Main	LF	0	\$30.00	\$0.00
	Connect to Ex 8"	EA	7	\$4,000.00	\$28,000.00
된	Connect to Ex 6"	£Α	0	\$3,500.00	\$0.00
1 2	Connect to Ex 2"	EΑ	2	\$3,000.00	\$6,000.00
Water Main Improvements	Sire Hydrant	EA	13	\$4,100.00	\$53,300.00
5	Install 8" Gate Valve	EA	8	\$2,500.00	\$20,000.00
<u> </u>	Install 6" Gate Valve	ξA	٥	\$1,045.00	\$0.00
<u>₹</u>	Fittings	TON	10	\$7,000.00	\$70,000.00
≥	2" Water Services	EA	81	\$2,150.00	\$174,150.00
l š	3/4" Water Services	EA	12	\$2,000.00	\$24,000.00
3	Remove Fire Hydrant	EA	13	\$1,000.00	\$13,000.00
	OSHA Trench Protection	LF	3,120	\$2.00	\$6,240.00
	OSHA Trench Protection (CITY)	LF	1,217		\$0.00
١.	Streat Repair (CITY)	LF	1,217		\$0.00
	Street Repair	LF	2,834	\$35.00	\$99,190.00
	Water Main In	aprovemen	its Total =	\$650,000.00	
<u> </u>	8" Sanitary Sewer	LF	3,300	\$80.00	\$254,000.00
Improvements	6" Sanitary Sewer	LF	0	\$56.00	\$0.00
∰	Manhole	EA	21	\$4,500.00	\$94,500.00
ð	Connect to Existing 6"	EA	2	\$1,500.00	\$3,000.00
횰	Connect to Existing Manhole	EA	4	\$1,000.00	\$4,000,00
	Cleanout	EA	2	\$1,000.00	\$2,000.00
Wastewate	4" Sewer Services	EA	79	\$2,400.00	\$189,600.00
}	OSHA Trench Protection	(F	3,300	\$2.00	\$6,600.00
1 %	Street Repair	LF	3,300	\$35.00	\$115,500.00
3	Sanitary Sewer In			\$680,000.00	7,500.00
\vdash	3" Mill and Overlay 90' wide (courthouse)	15	833	\$300.00	\$249,900.00
€	3" Mill and Overlay 50' wide	LF	4,855	\$165.00	\$801,075.00
E	Main Street Reconstruction 55' wide	LF	498	\$500.00	\$249,000.00
¥.	Cross walk Pavers	SF.	4,479	\$6.50	\$29,113.50
ă					
Street Improvements	Adjust Manhole Tops	EA	19	\$1,200.00 \$800.00	\$22,800.00
1	Adjust Water Valves Storm Water Pollution Plan	EA LS	40 1	\$15,000.00	\$32,000.00
🛪		nprovemer			\$15,000.00
	i Street in	nprovemet	its lotal =	\$1,400,000.00	

Construction Cost = \$3,730,000.00
Contingencies (15%) = \$560,000.00
Engineering/SurveyIng (15%) = \$560,000.00
PROJECT COST = \$4,850,000.00