

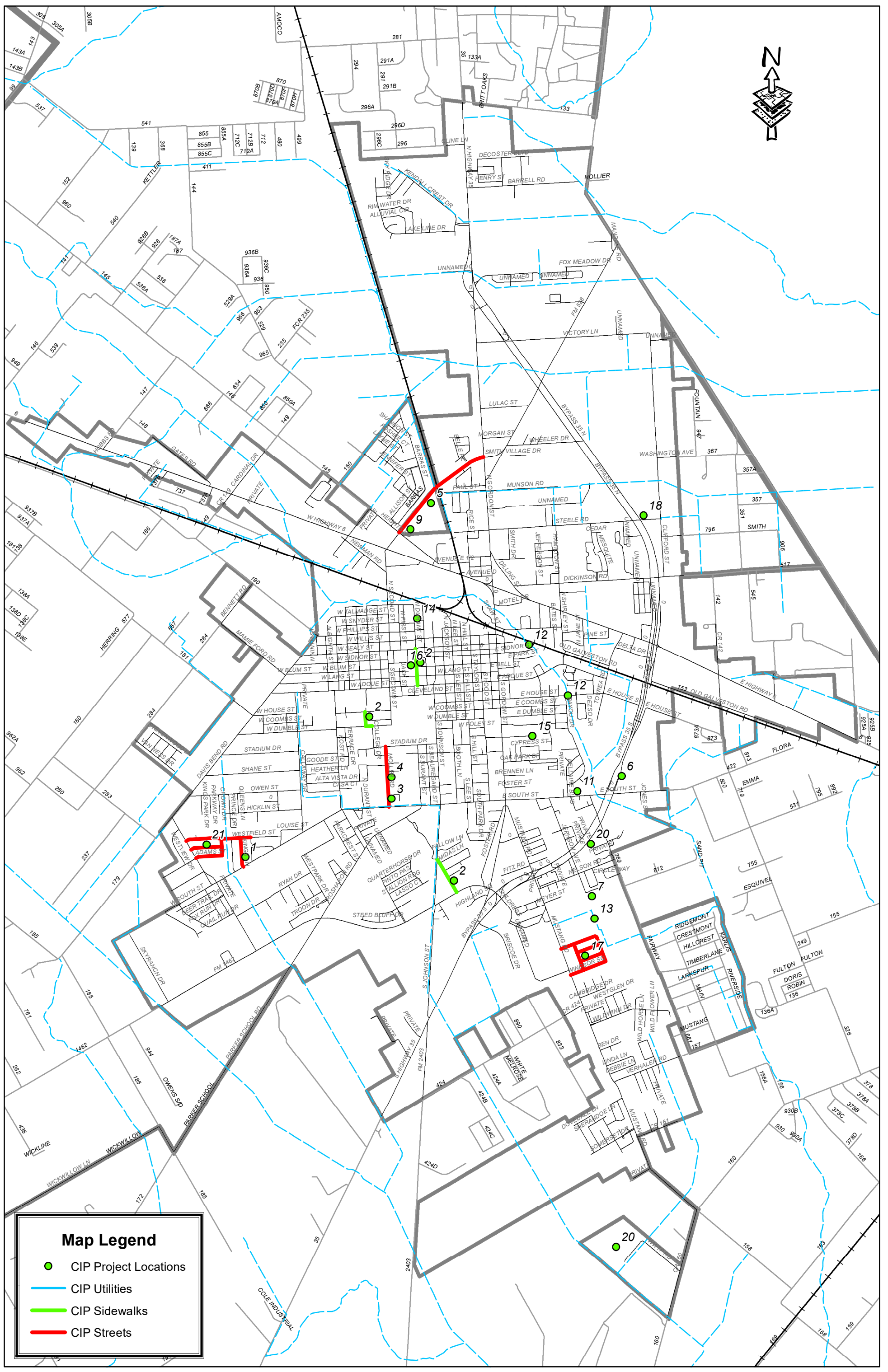
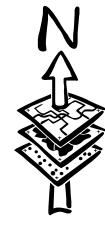
**Capital Improvement Program
Quarterly Report
January 2021**





FY 2021 Capital Improvement Program Project Schedule - January 2021

PROJECTS:	10/15/20	10/31/20	11/15/20	11/30/20	12/15/20	12/31/20	1/15/21	1/31/21	2/15/21	2/29/2021	3/15/21	3/31/21	4/15/21	4/30/21	5/15/21	5/31/21	6/15/21	6/30/21	7/15/21	7/31/21	8/15/21	8/31/21	9/15/21	9/30/21
1. 2020 Concrete Pavement and Drainage Project	Bid	Construction																						
2. 2020 Sidewalk Project	Bid	Construction																						
3. Moller Road Storm Sewer and Pavement Phase 1	Bid	Construction					Construction																	
4. Moller Road Storm Sewer and Pavement Phase 2									Design															
5. FM 528 Extension (Design)	Design																							
6. Lift Station 30 Expansion & Hwy. 35 Gravity Mains	Bid	Construction																						
7. 54" Eastside Interceptor	Bid	Construction					Construction																	
8. Northwest/Northeast Basin Sewer Rehab. Project	Bid	Construction																						
9. Water Plant #6 Tank Replacement	Construction																							
10. Wayfinding Signs Project	Design							Bid				Construction												
11. Fire/EMS Station	Construction																							
12. Mustang Bayou Bank Repair	Bid	Construction																						
13. Hike and Bike Trail Phase III	Design																							
14. Water Line Improvements Phase 2	Construction																							
15. Water Line Improvements Phase 3					Design																	Bid		
16. Water Plant #4 Tank Replacement													Design											
17. 2020 Asphalt Pavement Project	Design											Bid				Construction								
18. Lift Station 23 Expansion	Design																							
19. 2021 Wastewater Master Plan Update / Rate Study							Design																	
20. WWTP Facility Plan							Design																	
21. 2021 Concrete Pavement and Drainage Project												Design										Bid		



Map Legend

- CIP Project Locations
- CIP Utilities
- CIP Sidewalks
- CIP Streets



FY 2021 CIP Project Location Map

Rev. Date 1/12/2021
Engineering Dept.
X:/Projects/City Engineer/CIP Projects/Maps



2020 Concrete Pavement and Drainage Project

Project Number:	1
Project Type:	Streets
Strategic Plan:	Maintain Infrastructure
Funding:	Sales Tax Fund
Assigned:	City Engineer
Project Location:	Tracy Lynn Lane (Westfield Drive to South Street), Westfield Drive (Adams Street to the asphalt transition 125 feet east of Kings Lane), and Adams Street (first 571 feet from Westfield Drive). Project location identified as a number 1 on the CIP Project Location Map.
Project Description:	This project includes the removal and replacement of concrete pavement / curbs, the installation of storm pipe, manholes, inlets, and sidewalks.
Project Justification:	This project will replace the broken and uneven pavement and upgrade the storm system to allow for proper drainage.
Current Status:	Bids were opened on August 4, 2020 and Tandem Services, LLC. was the qualified low bidder. Council awarded the bid in the amount of \$1,106,632.50 to Tandem at their meeting on October 1, 2020. This is a 120 calendar day project.
Impact on Operating Budget:	No
Estimated Useful Life of Capital Investment:	25-30 years

PROJECT COST

	<u>ESTIMATED</u>	<u>ACTUAL</u>	<u>FUNDS BUDGETED</u>	<u>FISCAL YEAR</u>	
<u>DESIGN</u>					
<u>CONSTRUCTION</u>	\$1,000,000	\$1,106,633	\$1,000,000	2020	
<u>OTHER</u>					
<u>TOTAL:</u>	\$1,000,000	\$1,106,633	\$1,000,000		



2020 Sidewalk Project

Project Number:	2
Project Type:	Sidewalks
Strategic Plan:	Maintain Infrastructure
Funding:	Sales Tax Fund
Assigned:	City Engineer
Project Location:	Project locations identified as number 2 on the CIP project location map. <u>Pearson Rd.</u> (east side between Johnson St. and FM 1462), <u>Durant St.</u> (west side between Adoue St. and Sealy St.), <u>Dumble Street</u> (south side between College Street and Clark Street), and <u>Clark Street</u> (west side between Dumble St. and Fairview Dr.).
Project Description:	This project is intended to provide adequate pedestrian access throughout areas of Alvin where pedestrians are frequently observed. Concrete sidewalks will be installed in compliance with Americans with Disabilities Act (ADA) requirements.
Project Justification:	To provide adequate pedestrian access, and add sidewalks as proposed in the Comprehensive Plan.
Current Status:	Bids for this project were opened on August 4, 2020 and Tandem Services, LLC. was the qualified low bidder. Council awarded the bid to Tandem in the amount of \$176,827.20 at their meeting on October 1, 2020. This is a 90 calendar day project.
Impact to Operating Budget:	No
Estimated Useful Life of Capital Investment:	20-25 years

PROJECT COST					
	<u>ESTIMATED</u>	<u>ACTUAL</u>	<u>FUNDS BUDGETED</u>	<u>FISCAL YEAR</u>	
<u>DESIGN</u>					
<u>CONSTRUCTION</u>	\$250,000	\$176,827	\$250,000	2020	
<u>OTHER</u>					
<u>TOTAL:</u>	\$250,000	\$176,827	\$250,000		



Moller Road Storm Sewer and Pavement Improvements Phase 1

Project Number:	3
Project Type:	Streets
Strategic Plan:	Maintain Infrastructure
Funding:	Sales Tax Fund / Bond Funds
Assigned:	City Engineer
Project Location:	Moller Road near South Street. Project location identified as number 3 on the CIP project location map.
Project Description:	This project includes the design of the first of a three phase project to add a storm sewer system, concrete curb and gutter pavement, and sidewalk along Moller Road. This is the third of several drainage improvement projects that were recommended in the M-1 Ditch Watershed Study that was completed in January 2011 by Dannenbaum Engineering.
Project Justification:	To improve drainage in the M-1 Ditch Watershed by adding a storm sewer system along Moller Road.
Current Status:	Bids were opened on November 17, 2020 and Triple B Services, LLP was the qualified low bidder. Council awarded the bid in the amount of \$1,292,298.60 to Triple B at their meeting on December 17, 2020. This is a 410 calendar day project.
Impact on Operating Budget:	No
Estimated Useful Life of Capital Investment:	30+ years

PROJECT COST

	<u>ESTIMATED</u>	<u>ACTUAL</u>	<u>FUNDS BUDGETED</u>	<u>FISCAL YEAR</u>	
<u>DESIGN</u>	\$250,000	\$249,932	\$250,000	2018	
<u>CONSTRUCTION</u>	\$1,803,659	\$1,292,299	\$1,800,000	2019	Bond
<u>GEO. STUDY</u>					
<u>TOTAL:</u>	\$2,053,659	\$1,542,231	\$2,050,000		



Moller Road Storm Sewer and Pavement Improvements Phase 2 (Design)

Project Number:	4
Project Type:	Streets
Strategic Plan:	Maintain Infrastructure
Funding:	Sales Tax Fund
Assigned:	City Engineer
Project Location:	Moller Road near South Street. Project location identified as number 4 on the CIP project location map.
Project Description:	This project includes the design of the second of a three phase project to add a storm sewer system, concrete curb and gutter pavement, and sidewalk along Moller Road. This is the fourth of several drainage improvement projects that were recommended in the M-1 Ditch Watershed Study that was completed in January 2011 by Dannenbaum Engineering.
Project Justification:	To improve drainage in the M-1 Ditch Watershed by adding a storm sewer system along Moller Road.
Current Status:	Project design expected to start in February 2021.
Impact on Operating Budget:	No
Estimated Useful Life of Capital Investment:	30+ years

PROJECT COST

	<u>ESTIMATED</u>	<u>ACTUAL</u>	<u>FUNDS BUDGETED</u>	<u>FISCAL YEAR</u>	
<u>DESIGN</u>	\$250,000		\$250,000	2020	Bond
<u>CONSTRUCTION</u>	\$3,550,000		\$3,550,000	2020	Bond
<u>GEO. STUDY</u>					
<u>TOTAL:</u>	\$3,800,000	\$0	\$3,800,000		



FM 528 Extension (Design)

Project Number:	5
Project Type:	Streets
Strategic Plan:	Maintain Infrastructure
Funding:	Sales Tax Fund
Assigned:	City Engineer
Project Location:	Extension of FM 528 from Gordon Street to Highway 6. Project location identified as number 5 on the CIP project location map.
Project Description:	This project involves the construction of the extension of FM 528 from Gordon Street to Highway 6 along right-of-way that has been acquired in the last ten plus years.
Project Justification:	Completion of this project will help to relieve traffic congestion at the Gordon Street and Highway 6 intersection, as well as, provide a secondary evacuation route over the railroad tracks in the event that the railroad underpass along Highway 6 floods.
Current Status:	The Texas Department of Transportation submitted this project in HGAC's "Call for Projects" on October 31, 2018 in an attempt to obtain federal funding for construction through the TIP. This project was not selected for federal funding through the TIP. HDR was notified by TXDOT in June 2019 that they would not be able to advance funding for this project at this time. TXDOT has the project budgeted to start construction in 2024. Council approved an Advance Funding Agreement with TXDOT for their review of the plans for the project on 7/16/2020. HDR submitted the plans to TXDOT for review on 9/30/2020.
Impact on Operating Budget:	No
Estimated Useful Life of Capital Investment:	30-35 years

PROJECT COST					
	<u>ESTIMATED</u>	<u>ACTUAL</u>	<u>FUNDS BUDGETED</u>	<u>FISCAL YEAR</u>	
<u>DESIGN</u>	\$1,000,000	\$1,186,353.11	\$1,000,000	2018	
<u>CONSTRUCTION</u>	\$15,100,000				
<u>OTHER</u>					
<u>TOTAL:</u>	\$16,100,000	\$1,186,353.11	\$1,000,000		



Lift Station 30 Expansion & HWY 35 Bypass Gravity Mains

Project Number:	6
Project Type:	Sewer
Strategic Plan:	2015 Utility Master Plan - Wastewater CIP Projects - 2020
Funding:	2018 Water and Sewer Bond Funds
Assigned:	City Engineer
Project Location:	Lift Station 30 Expansion and HWY 35 Bypass gravity mains. Project location identified as number 6 on the CIP project location map.
Project Description:	This project includes the expansion of lift station 30 from a firm capacity of 4.61 MGD to a firm pumping capacity of 11.5 MGD. This project includes a new 24 inch force main, and the upsizing of the gravity lines to 36 inches immediately upstream and downstream of lift station 30.
Project Justification:	Identified in the 2015 Utility Master Plan by Freese and Nichols, Inc. that was approved by the City Council on March 3, 2016.
Current Status:	Bids were opened on August 4, 2020. Staff is currently working to complete the purchase of the property required for the expansion of the lift station prior to award of the bid.
Impact to Operating Budget:	No
Estimated Useful Life of Capital Investment:	20-25 years

<u>PROJECT COST</u>					
	<u>ESTIMATED</u>	<u>ACTUAL</u>	<u>FUNDS BUDGETED</u>	<u>FISCAL YEAR</u>	
<u>DESIGN</u>	\$1,495,900	\$760,515	\$679,865	2018	Bonds
<u>CONSTRUCTION</u>	\$10,064,900	\$8,833,432	\$10,064,900	2019/2020	Bonds
<u>OTHER</u>					
<u>TOTAL:</u>	\$11,560,800	\$9,593,947	\$10,744,765		



54" Eastside Interceptor

Project Number:	7
Project Type:	Sewer
Strategic Plan:	2015 Utility Master Plan - Wastewater CIP Projects - 2020
Funding:	2018/2019/2020 Water and Sewer Bond Funds
Assigned:	City Engineer
Project Location:	Replacement 54" Eastside Interceptor. Project location identified as number 7 on the CIP project location map.
Project Description:	This project includes the construction of a 54 inch wastewater line from the 35 Bypass to the WWTP. The model showed the existing 27 inch and 33 inch wastewater lines do not have enough capacity to convey existing peak flows to the plant.
Project Justification:	Identified in the 2015 Utility Master Plan by Freese and Nichols, Inc. that was approved by the City Council on March 3, 2016.
Current Status:	Bids were opened on November 17, 2020 and Harper Brothers Construction, LLC was the qualified low bidder. Council awarded the bid in the amount of \$16,044,022 to Harper Brothers at their meeting on December 17, 2020. This is a 540 calendar day project.
Impact to Operating Budget:	No
Estimated Useful Life of Capital Investment:	20-25 years

PROJECT COST

	<u>ESTIMATED</u>	<u>ACTUAL</u>	<u>FUNDS BUDGETED</u>	<u>FISCAL YEAR</u>	
<u>DESIGN</u>	\$2,165,300	\$2,076,000	\$2,076,000	2018	Bond
<u>CONSTRUCTION</u>	\$16,399,450	\$16,044,022	\$16,047,130	2019/2020	Bond
<u>OTHER</u>	\$89,865	\$89,865		2019	Bond
<u>TOTAL:</u>	\$18,654,615	\$18,209,887	\$18,123,130		



Northwest and Northeast Sanitary Sewer Basin Rehabilitation Project

Project Number:	8
Project Type:	Sewer
Strategic Plan:	2015 Utility Master Plan - Wastewater CIP Projects - 2020
Funding:	2018 Water and Sewer Bond Funds
Assigned:	City Engineer / Public Services Director
Project Location:	Northwest and Northeast Sanitary Sewer Basins in the northern portion of the City.
Project Description:	Utilities Master Plan recommended that a Sanitary Sewer Evaluation Survey be conducted throughout the Northeast and Northwest Basins to identify sources of Inflow and Infiltration. Once sources of I/I are found, the City should address them as required to reduce excess water from entering the wastewater system.
Project Justification:	Identified in the 2015 Utility Master Plan by Freese and Nichols, Inc. that was approved by the City Council on March 3, 2016.
Current Status:	City Council awarded a bid to Mitchell Contracting, Inc. on September 17, 2020 in the amount of \$540,265. This is a 122 calendar day project.
Impact to Operating Budget:	No
Estimated Useful Life of Capital Investment:	20-25 years

PROJECT COST

	<u>ESTIMATED</u>	<u>ACTUAL</u>	<u>FUNDS BUDGETED</u>	<u>FISCAL YEAR</u>	
<u>DESIGN</u>	\$95,300	\$95,200	\$95,300	2018	
<u>CONSTRUCTION</u>	\$855,700	\$540,265	\$850,000	2020	
<u>OTHER</u>					
<u>TOTAL:</u>	\$951,000	\$635,465	\$945,300		



Water Plant #6 Tank Replacement

Project Number:	9
Project Type:	Water
Strategic Plan:	2015 Utility Master Plan - Water CIP Projects - 2020
Funding:	2018 Water and Sewer Bond Funds
Assigned:	City Engineer
Project Location:	Water Plant No. 6 Ground Storage Tank Replacement identified as project number 9 on the CIP project location map.
Project Description:	Decommission three existing 0.43 MG ground storage tanks and add new 1.5 MG ground storage tank at Water Plant No. 6
Project Justification:	Identified in the 2015 Utility Master Plan by Freese and Nichols, Inc. that was approved by the City Council on March 3, 2016.
Current Status:	The contract with T & C Construction, Ltd. was terminated on November 9, 2020 due to their inability to complete the project. The tank was placed online in December 2020 and the remaining site work will be bid in February 2021.
Impact to Operating Budget:	No
Estimated Useful Life of Capital Investment:	20-25 years

PROJECT COST

	<u>ESTIMATED</u>	<u>ACTUAL</u>	<u>FUNDS BUDGETED</u>	<u>FISCAL YEAR</u>	
<u>DESIGN</u>	\$526,500	\$319,400	\$319,400	2018	Bond
<u>CONSTRUCTION</u>	\$2,632,500	\$2,446,526	\$2,446,526	2018	Bond
<u>OTHER</u>					
<u>TOTAL:</u>	\$3,159,000	\$2,765,926	\$2,765,926		



Wayfinding Signs Project

Project Number:	10
Project Type:	Wayfinding
Strategic Plan:	Planning for directional movement in the City to key locations.
Funding:	General Fund
Assigned:	Economic Development Director
Project Location:	Corporate City Limits
Project Description:	To develop a wayfinding signage system that will create a uniqueness about Alvin while also improving the economic vitality of lesser known parts of the City that tourists and visitors may not be aware of.
Project Justification:	By implementing wayfinding signage, visitors will be easily directed to key locations creating a more positive experience and it will encourage others to see what the City of Alvin has to offer beyond the visible elements on the main roadways.
Current Status:	Ongoing (01/5/20): The wayfinding master plan has been reviewed and approved by staff and the wayfinding signage stakeholders. On May 19, 2020 staff alerted National Sign Plazas (NSP) that the wayfinding master plan has been accepted and a milestone payment was issued for acceptance of the manual. The final step for the planning stage is for NSP to secure TXDOT approval for sign placement in TXDOT's right-of-way. Once TXDOT approval has been secured, a final milestone payment will be issued and the project will be ready to bid for sign fabrication and installation. On January 5, 2021 NSP sent the TXDOT approval letter to the City of Alvin and the final milestone payment is being processed. The next step is to solicit bids for the construction and implementation phase.
Impact on Operating Budget:	No
Estimated Useful Life of Capital Investment:	N/A

PROJECT COST

	<u>ESTIMATED</u>	<u>ACTUAL</u>	<u>FUNDS BUDGETED</u>	<u>FISCAL YEAR</u>	
<u>DESIGN</u>	\$50,000	\$49,500	\$49,500	2019	
<u>CONSTRUCTION</u>	\$180,500	\$180,500	\$105,500	2020	
<u>OTHER</u>					
<u>TOTAL:</u>	\$230,500	\$230,000	\$155,000		



Fire/EMS Station

Project Number:	11
Project Type:	Facilities
Strategic Plan:	Planning for the replacement of aged facilities.
Funding:	General Projects Fund and Certificates of Obligations.
Assigned:	Rex W. Kleisel
Project Location:	City owned 4.38 Acres at the corner of Bellaire Boulevard and South Street. Identified as project number 11 on the CIP project location map.
Project Description:	This project is to design and construct a new Fire and Emergency Medical Services (EMS) Station on the 4.36 acre property at the corner of Bellaire Boulevard and South Street that was purchased in December 2017.
Project Justification:	Compelling reasons to construct a new station include, but are not limited to expanding service coverage to the south and east quarters of the Fire Department response territory. Also, the two existing stations lack sufficient windstorm ratings and have inadequate sleeping quarters for staff.
Current Status:	TNMP completed the meter set for permanent power. The Contractor continued work on the roof, drywall, masonry cleaning, tile installation. Prepping for power turn on, and HVAC equipment.
Impact on Operating Budget:	Once the construction of the facility is complete, there will be utility operational and maintenance costs associated with the new facility.
Estimated Useful Life of Capital Investment:	50+ Years

PROJECT COST

	<u>ESTIMATED</u>	<u>ACTUAL</u>	<u>FUNDS BUDGETED</u>	<u>FISCAL YEAR</u>	
<u>DESIGN</u>	\$1,754,743	\$1,754,743	\$1,210,743	2018	
<u>CONSTRUCTION</u>	\$14,300,000	\$11,673,900	\$14,170,600	2019	Bond
<u>OTHER</u>	\$310,000	\$310,000		2018	
<u>TOTAL:</u>	\$16,364,743	\$13,738,643	\$15,381,343		



Mustang Bayou Bank Repair

Project Number:	12
Project Type:	Park / Drainage
Strategic Plan:	Maintain Infrastructure
Funding:	General Fund
Assigned:	City Engineer / Parks Director / City Attorney
Project Location:	Two areas along the bank of Mustang Bayou that washed out during Hurricane Harvey. Project location identified as number 12 on the CIP project location map.
Project Description:	This project includes the design and repair of two locations along Mustang Bayou where the bayou side slope failed due to flood waters from Hurricane Harvey.
Project Justification:	This project is needed to restore the portion of the Hike and Bike Trail that was destroyed due to the side slope failure and to restore the bayou.
Current Status:	Bids were opened on November 10, 2020 and due to only receiving two bids that were extremely high Staff is contemplating rebidding the project.
Impact on Operating Budget:	No
Estimated Useful Life of Capital Investment:	20 years

PROJECT COST

	<u>ESTIMATED</u>	<u>ACTUAL</u>	<u>FUNDS BUDGETED</u>	<u>FISCAL YEAR</u>	
<u>DESIGN</u>	\$156,408	\$156,408	\$156,408	2018	
<u>CONSTRUCTION</u>	\$302,126				
<u>OTHER</u>					
<u>TOTAL:</u>	\$458,534	\$156,408	\$156,408		



Hike and Bike Trail Phase III Design

Project Number:	13
Project Type:	Parks
Strategic Plan:	Extending the existing hike and bike trail as a key addition to the Alvin trail system for non-motorized transportation
Funding:	General Fund
Assigned:	Parks and Recreation Director
Project Location:	Identified on the CIP project location map as project number 13 . South Street to Mustang Road within the Corporate City Limits.
Project Description:	Design third phase of the existing Hike and Bike Trail adding approximately 1.6 miles of trail to the existing 1.7 miles.
Project Justification:	Provide non-motorized transportation from downtown Alvin to Alvin Community College.
Current Status:	Awaiting final design proposal from Kimley/Horn.
Impact on Operating Budget:	Yes
Estimated Useful Life of Capital Investment:	20+ years

PROJECT COST

	<u>ESTIMATED</u>	<u>ACTUAL</u>	<u>FUNDS BUDGETED</u>	<u>FISCAL YEAR</u>	
<u>DESIGN</u>	\$100,000	\$150,000	\$150,000	2020/2021	
<u>CONSTRUCTION</u>	\$2,756,000				
<u>OTHER</u>					
<u>TOTAL:</u>	\$2,856,000	\$150,000	\$150,000		



Water Line Improvements Phase 2

Project Number:	14
Project Type:	Water
Strategic Plan:	2015 Utility Master Plan - Water CIP Projects - 2020
Funding:	2019 Water and Sewer Bond Funds
Assigned:	City Engineer
Project Location:	General project location identified as project 14 on the CIP project location map.
Project Description:	New 10-inch, 8-inch, and 6-inch water lines to connect and replace existing small water lines in the area bounded by State Highway 6, State Highway 35 Bypass, Sealy Street, and Second Street.
Project Justification:	Identified in the 2015 Utility Master Plan by Freese and Nichols, Inc. that was approved by the City Council on March 3, 2016.
Current Status:	Bids for this project were opened on June 30, 2020 and there were ten bidders. City Council approved a bid award for this project to DL Elliot Enterprises, Inc. on July 16, 2020. Construction of this 210 day project started on October 5, 2020.
Impact to Operating Budget:	No
Estimated Useful Life of Capital Investment:	20-25 years

PROJECT COST					
	<u>ESTIMATED</u>	<u>ACTUAL</u>	<u>FUNDS BUDGETED</u>	<u>FISCAL YEAR</u>	
<u>DESIGN</u>	\$422,000	\$396,250	\$422,000	2019	Bond
<u>CONSTRUCTION</u>	\$2,109,900	\$1,367,343	\$2,109,900	2019	Bond
<u>OTHER</u>					
<u>TOTAL:</u>	\$2,531,900	\$1,763,593	\$2,531,900		



Water Line Improvements Phase 3

Project Number:	15
Project Type:	Water
Strategic Plan:	2015 Utility Master Plan - Water CIP Projects - 2020
Funding:	2020 Water and Sewer Bond Funds
Assigned:	City Engineer
Project Location:	General project location identified as project 15 on the CIP project location map.
Project Description:	New 8-inch and 6-inch water lines to connect and replace existing small diameter water lines in the area bounded by House Street, Bayou Drive, South Street, and Gordon Street. In addition replacement of waterline along Foley Street and within an easement from Legion Street to Adoue Street.
Project Justification:	Identified in the 2015 Utility Master Plan by Freese and Nichols, Inc. that was approved by the City Council on March 3, 2016.
Current Status:	Council approved a contract with LJA Engineering for final engineering design services at their meeting on December 3, 2020. Design started in December 2020 and it is anticipated that the design will be complete and the project will be ready to bid in August 2021.
Impact to Operating Budget:	No
Estimated Useful Life of Capital Investment:	20-25 years

PROJECT COST					
	<u>ESTIMATED</u>	<u>ACTUAL</u>	<u>FUNDS BUDGETED</u>	<u>FISCAL YEAR</u>	
<u>DESIGN</u>	\$549,900	\$549,900	\$549,900	2020	Bond
<u>CONSTRUCTION</u>	\$2,728,092		\$2,728,092	2020	Bond
<u>OTHER</u>					
<u>TOTAL:</u>	\$3,277,992	\$549,900	\$3,277,992		



Water Plant #4 Tank Replacement

Project Number:	16
Project Type:	Water
Strategic Plan:	2015 Utility Master Plan - Water CIP Projects - 2020
Funding:	2021 Water and Sewer Bonds / Impact Fees
Assigned:	City Engineer
Project Location:	Water Plant No. 4 Ground Storage Tank Replacement identified as project number 16 on the CIP project location map.
Project Description:	Decommission the existing 0.21 and 0.43 Million Gallon (MG) steel ground storage tanks and add a new 1.0 MG concrete ground storage tank at Water Plant #4.
Project Justification:	Identified in the 2015 Utility Master Plan by Freese and Nichols, Inc. that was approved by the City Council on March 3, 2016.
Current Status:	It is anticipated that project design will start in April 2021.
Impact to Operating Budget:	No
Estimated Useful Life of Capital Investment:	20-25 years

PROJECT COST

	<u>ESTIMATED</u>	<u>ACTUAL</u>	<u>FUNDS BUDGETED</u>	<u>FISCAL YEAR</u>	
<u>DESIGN</u>	\$351,000		\$351,000	2021	Impact Fees
<u>CONSTRUCTION</u>	\$2,100,500		\$2,100,500	2021	Bond
<u>OTHER</u>					
TOTAL:	\$2,451,500	\$0	\$2,451,500		



2020 Asphalt Pavement Project (Contractor)

Project Number:	17
Project Type:	Streets
Strategic Plan:	Maintain Infrastructure
Funding:	Sales Tax Fund
Assigned:	City Engineer
Project Location:	Windsor Square, Oxford Road, Hurstgreen Lane, and Coventry Lane. Identified as number 17 on the CIP Project Location Map.
Project Description:	This project involves the rehabilitation of various asphalt streets within the City of Alvin. The project includes the reclamation, stabilization, and overlay of asphalt streets. The project locations will be determined based on recommendations from the 2014 Asphalt Pavement Assessment by JET Consulting.
Project Justification:	To improve existing infrastructure.
Current Status:	In December 2020 Staff received the final geotechnical report and the topographic survey for the project. It is anticipated that this project will be ready to bid in Spring 2021.
Impact on Operating Budget:	No
Estimated Useful Life of Capital Investment:	10-15 years

PROJECT COST

	<u>ESTIMATED</u>	<u>ACTUAL</u>	<u>FUNDS BUDGETED</u>	<u>FISCAL YEAR</u>	
<u>DESIGN</u>					
<u>CONSTRUCTION</u>	\$1,000,000		\$1,000,000	2021	
<u>OTHER</u>		\$35,000		2020	Geo./Topo.
<u>TOTAL:</u>	\$1,000,000	\$35,000	\$1,000,000		



Lift Station 23 Expansion Project (design)

Project Number:	18
Project Type:	Sewer
Strategic Plan:	2015 Utility Master Plan
Funding:	2015 Certificates of Obligation Bond Funds
Assigned:	City Engineer
Project Location:	Lift Station 23 Expansion. Project location identified as number 18 on the CIP project location map.
Project Description:	This project includes the expansion of lift station 23 from a firm capacity of 2.02 MGD to a firm pumping capacity of 9.0 MGD and elimination of lift stations 15 and 16. This project includes 7,000 feet of new 24 inch force main along Bypass 35, and the upsizing 14,720 feet of the gravity mains along Steele Rd., N. Gordon, Rice St., and Ave. E 1/2 ranging in size from 15-inch to 30-inch.
Project Justification:	Identified in the 2015 Utility Master Plan by Freese and Nichols, Inc. that was approved by the City Council on March 3, 2016.
Current Status:	Staff is currently working with LJA to identify easements that will be required for the project.
Impact to Operating Budget:	Yes
Estimated Useful Life of Capital Investment:	20-25 years

PROJECT COST

	<u>ESTIMATED</u>	<u>ACTUAL</u>	<u>FUNDS BUDGETED</u>	<u>FISCAL YEAR</u>	
<u>DESIGN</u>	\$1,389,800	\$1,389,800	\$1,700,000	2015	Bonds
<u>CONSTRUCTION</u>	\$12,600,000			2021/2022	Bonds
<u>OTHER</u>	\$150,000				Easements
<u>TOTAL:</u>	\$14,139,800	\$1,389,800	\$1,700,000		



2021 Wastewater Master Plan Update / Utility Rate Study

Project Number:	19
Project Type:	Utility
Strategic Plan:	Maintain Infrastructure / Planning for the Future
Funding:	Utility Project Fund
Assigned:	City Engineer / Public Services Director
Project Location:	All areas of the City and ETJ that the Wastewater System serves.
Project Description:	This project will provide an update to the wastewater portion of the City's Utility Master Plan that was done in 2015, provide an evaluation of the City's West-Central/Central Sanitary Sewer Basins, and provide a Water and Wastewater Rate Study (the last one was done in 2016).
Project Justification:	This project is needed in order to evaluate the City's Wastewater System now that projects that were recommended in the 2015 Utility Master Plan are in process or complete.
Current Status:	Council approved a contract with Freese and Nichols for engineering design services at their meeting on January 7, 2021. It is anticipated that design will be complete in 18 months.
Impact to Operating Budget:	No
Estimated Useful Life of Capital Investment:	5-10 years

PROJECT COST

	<u>ESTIMATED</u>	<u>ACTUAL</u>	<u>FUNDS BUDGETED</u>	<u>FISCAL YEAR</u>	
<u>DESIGN</u>	\$380,000	\$380,000	\$380,000	2021	
<u>CONSTRUCTION</u>					
<u>OTHER</u>					
<u>TOTAL:</u>	\$380,000		\$380,000		



2021 Wastewater Treatment Plant Facility Plan

Project Number:	20
Project Type:	Sewer
Strategic Plan:	Maintain Infrastructure / Planning for the Future
Funding:	Utility Project Fund
Assigned:	City Engineer / Public Services Director
Project Location:	City's Wastewater Treatment Plant. Identified as number 20 on the CIP Project Location Map.
Project Description:	This project will provide an evaluation of the City's Wastewater Treatment Plant and develop a facility plan that will identify improvements that will be required at the plant in the 5-year, 10-year, and 20-year planning periods.
Project Justification:	This project is needed in order to evaluate the City's only wastewater treatment plant now that the two optimization projects (2008 and 2018) are complete.
Current Status:	Council approved a contract with Freese and Nichols for engineering design services at their meeting on January 7, 2021. This evaluation will use wastewater flow projections from the Wastewater Master Plan Update, therefore this plan is time dependent on that plan.
Impact to Operating Budget:	No
Estimated Useful Life of Capital Investment:	10-15 years

PROJECT COST

	<u>ESTIMATED</u>	<u>ACTUAL</u>	<u>FUNDS BUDGETED</u>	<u>FISCAL YEAR</u>	
<u>DESIGN</u>	\$59,914	\$59,914	\$59,914	2021	
<u>CONSTRUCTION</u>					
<u>OTHER</u>					
<u>TOTAL:</u>	\$59,914		\$59,914		



2021 Concrete Pavement and Drainage Project

Project Number:	21
Project Type:	Streets
Strategic Plan:	Maintain Infrastructure
Funding:	Sales Tax Fund
Assigned:	City Engineer
Project Location:	Westfield Drive (Adams Street to Rowan Burton), Perry Lane (Adams Street to Rowan Burton), and Adams Street (portion that runs east-west to Rowan Burton). Project location identified as a number 21 on the CIP Project Location Map.
Project Description:	This project includes the removal and replacement of concrete pavement / curbs, the installation of storm pipe, manholes, inlets, and sidewalks.
Project Justification:	This project will replace the broken and uneven pavement and upgrade the storm system to allow for proper drainage.
Current Status:	It is anticipated that design of this project will start in March 2021.
Impact on Operating Budget:	No
Estimated Useful Life of Capital Investment:	25-30 years

PROJECT COST

	<u>ESTIMATED</u>	<u>ACTUAL</u>	<u>FUNDS BUDGETED</u>	<u>FISCAL YEAR</u>	
<u>DESIGN</u>					
<u>CONSTRUCTION</u>	\$1,000,000		\$1,000,000	2021	
<u>OTHER</u>					
<u>TOTAL:</u>	\$1,000,000	\$0	\$1,000,000		