

GREATER TEXOMA UTILITY AUTHORITY BOARD MEETING OCTOBER 16, 2023

GTUA BOARD ROOM 5100 AIRPORT DRIVE DENISON, TEXAS 75020



NOTICE OF PUBLIC MEETING OF THE BOARD OF DIRECTORS OF THE GREATER TEXOMA UTILITY AUTHORITY GTUA BOARD ROOM 5100 AIRPORT DRIVE DENISON, TEXAS 75020 Monday, October 16, 2023, 12:00 p.m.

Notice is hereby given that a meeting of the Board of Directors of the Greater Texoma Utility Authority will be held on the 16th day of October, 2023, at 12:00 p.m. in the Administrative Offices of the Greater Texoma Utility Authority, 5100 Airport Drive, Denison TX, 75020, at which time the following items may be discussed, considered and acted upon, including the expenditure of funds:

Agenda:

- I. Call to Order.
- II. Pledge of Allegiance.
- III. Consent Agenda
 - * Items marked with an asterisk (*) are considered routine by the Board of Directors and will be enacted in one motion without discussion unless a Board Member or a Citizen requests a specific item to be discussed and voted on separately.
- IV. * Consider and act upon approval of Minutes September 18, 2023, Meeting.
- V. * Consider and act upon approval of accrued liabilities for September 2023.
- VI. Citizens to be Heard.
- VII. Receive Update on City of Sherman's Major Infrastructure Program
- VIII. Consider and act upon Kiewit Water Facilities South Company's Guaranteed Maximum Price A, B, and C for City of Sherman's South Wastewater Treatment Plant MBR Project.
- IX. Consider and act upon selection of Membrane Biological Reactor Equipment Supplier for City of Sherman's South Wastewater Treatment Plant MBR Project.
- X. Consider and act upon award of contract for City of Sherman's South Wastewater Treatment Plant MBR Project Electrical Equipment Procurement.
- XI. Consider and act upon the award of contract for City of Sherman's Lake Texoma Pump Station Expansion Pump Procurement.

- XII. Consider and act upon the award of contract for City of Sherman's Lake Texoma Pump Station Expansion MCC and Switchgear Procurement.
- XIII. Consider and act upon the supplemental agreement between the Secretary of the Army and North Texas Municipal Water District and Greater Texoma Utility Authority for additional easement right of way for the Lake Texoma Pump Station.
- XIV. Consider and act upon the award of contract for City of Sherman's EDR Rehab. BP-2 Meters, Gauges and Flowmeters.
- XV. Consider and act upon Change Order No. 1 to the contract with Red River Construction Co. for the City of Sherman Post Oak WWTP Aeration and Other Secondary Improvements.
- XVI. Consider and act upon the award of contract for City of Bell's WWTP Rehabilitation.
- XVII. Review and act upon approval of the Investment Policy.
- XVIII. Discussion and possible action on a request for an easement for Grayson Collins Electrical Coop
- XIX. Discussion and possible action on the regularly scheduled November Board Meeting.
- XX. Receive General Manager's Report: The General Manager will update the Board on operational and other activities of the Authority.

XXI. Adjourn.

¹The Board may vote and/or act upon each of the items listed in this agenda.

³PERSONS WITH DISABILITIES WHO PLAN TO ATTEND THIS MEETING, AND WHO MAY NEED ASSISTANCE, ARE REQUESTED TO CONTACT VELMA STARKS AT (903) 786-4433 TWO (2) WORKING DAYS PRIOR TO THE MEETING, SO THAT APPROPRIATE ARRANGEMENTS CAN BE MADE.

²At any time during the meeting or work session and in compliance with the Texas Open Meetings Act, Chapter 551, Government Code, Vernon's Texas Codes, Annotated, the Greater Texoma Utility Authority Board may meet in executive session on any of the above agenda items or other lawful items for consultation concerning attorney-client matters (§551.071); deliberation regarding real property (§551.072); deliberation regarding prospective gifts (§551.073); personnel matters (§551.074); and deliberation regarding security devices (§551.076). Any subject discussed in executive session may be subject to action during an open meeting.



MINUTES OF THE BOARD OF DIRECTORS' SPECIAL MEETING GREATER TEXOMA UTILITY AUTHORITY

MONDAY, SEPTEMBER 25, 2023

AT THE ADMINISTRATIVE OFFICES 5100 AIRPORT DRIVE DENISON TX 75020

Members Present: Brad Morgan, Scott Blackerby, Ken Brawley Robert Hallberg, Henry Koehler,

Kristofor Spiegel, Matt Brown, and Donald Johnson

Members Absent: Stanley Thomas

Staff: Paul Sigle (remotely), Tasha Hamilton, Lisa Cranfill, Stacy Patrick, Debi Atkins,

and Velma Starks

General Counsel: Mike Wynne, Wynne and Smith

Bond Counsel:

Visitors: Tom Pruitt, City of Sherman

I. Call to Order

Board President Brad Morgan called the meeting to order at 12:00 p.m.

II. Pledge of Allegiance

Board President Brad Morgan led the group in the Pledge of Allegiance.

III. Consent Agenda

Items marked with an asterisk () are considered routine by the Board of Directors and are enacted in one motion without discussion unless a Board Member or a Citizen requests a specific item to be discussed and voted on separately.

- IV. * Consider and act upon approval of Minutes of August 21, 2023, Meeting.
- V. * Consider and act upon approval of accrued liabilities for August 2023.

Board Member Scott Blackerby made the motion to approve the Consent Agenda. Board Member Matt Brown seconded the motion. Motion passed unanimously.

VI. Citizens to be Heard.

No citizens wished to be heard.

VII. Consider and act upon the award of contract for a Construction Manager-at-Risk for City of Sherman's WWTP South – MBR project.

General Manager Paul Sigle provided background information for the Board. Tom Pruitt, City of Sherman provided details. Kiewit Water Facilities South sent a proposal for a CMAR for the construction of a new membrane bioreactor based wastewater treatment plant to treat the wastewater from industrial users within the City. The proposal was reviewed, Pape-Dawson is recommending Kiewit Water Facilities South for the project. The City of Sherman has approved Kiewit Water Facilities South for the project at a previous meeting. Board Member Donald Johnston made the motion to award the contract to Kiewit Water Facilities South. Board Member Ken Brawley seconded the motion. Motion passed unanimously.

VIII. Consider and act upon the award the Solicitation Set One (SS1) for Bid Packages (BP) 1.01 for Vertical Turbine Pumps and BP 1.02 for Electrical Equipment for Garney Companies, Inc. for the Sherman Water Treatment Plant Concentrate Discharge System Project.

General Manager Paul Sigle provided background information for the Board. Tom Pruitt, City of Sherman provided details. The City of Sherman approved the award to Garney Companies, Inc. in the amount of \$1,178,933.00 for a total contract amount of \$30,586,512.68 at a previous meeting. Board Member Matt Brown made the motion to award the contract to Garney Companies, Inc. Board Member Robert Hallberg seconded the motion. Motion passed unanimously.

IX.. Consider and act upon the award of contract for City of Sherman's Post Oak Wastewater

Treatment Plant Emergency Backup Generator and Paralleling Switchgear Equipment PreProcurement Bid Package 1A, 1B, 1C: Generator and Paralleling Switchgear.

General Manager Paul Sigle provided background information for the Board. The City of Sherman approved the award of contract to Alterman Electric. Board Member Donald Johnston made the motion to award the contract to Alterman Electric. Board Member Scott Blackerby seconded the motion. Motion passed unanimously.

X. Consider and act upon the award of contract for City of Sherman Post Oak Wastewater Treatment
Plant Emergency Backup Generator and Paralleling Switchgear Equipment Pre-Procurement Bid
Package 2A, 2B: Pad Mount Switchgear.

General Manager Paul Sigle provided background information for the Board. The City of Sherman awarded the contract to Elliott Electric Supply, Inc. at a previous meeting. Board Member Scott Blackerby made the motion to award the contract to Elliott Electric Supply, Inc. Board Member Ken Brawley seconded the motion. Motion passed unanimously.

XI. Consider and act upon the award of contract for City of Sherman Post Oak Wastewater Treatment
Plant Emergency Backup Generator and Paralleling Switchgear Equipment Pre-Procurement Bid
Package 3A. 3B: Pad Mount Transformers.

General Manager Paul Sigle provided background information for the Board. Tom Pruitt, City of Sherman provided details. The City of Sherman awarded the contract to Elliott Electric Supply, Inc. at a previous meeting. Discussion was held. Board Member Matt Brown made a motion to award the contract to Elliott Electric Supply Inc. Board Member Donald Johnston seconded the motion. Motion passed unanimously.

XII. Consider and act upon Change Order No. 1 to the contract with Red River Construction Co. for the City of Sherman Post Oak WWTP Equalization Basin Project

General Manager Paul Sigle provided background information for the Board. Tom Pruitt, City of Sherman provided details. The City of Sherman approved Change Order No. 1 at a previous meeting. Board Member Ken Brawley made the motion to approve Change Order No. 1. Board Member Scott Blackerby seconded the motion. Motion passed unanimously.

XIII. Consider and act upon the award of contract for City of Sherman WTP Rapid Mix Vault Rehab Package One.

General Manager Paul Sigle provided background information for the Board. Tom Pruitt, City of Sherman provided details. The City of Sherman awarded the contract to MVA Services at a previous meeting. Board Member Scott Blackerby made the motion to award the contract to MVA Services. Board Member Matt Brown seconded the motion. Motion passed unanimously.

XIV. Consider and act upon the award of contract for City of Sherman WTP Rapid Mix Vault Rehab Package Two.

General Manager Paul Sigle provided background information for the Board. The City of Sherman awarded the contract to ABB Instrumentation, USA at a previous meeting. Board Member Matt Brown made the motion to award the contract to ABB Instrumentation, USA. Board Member Ken Brawley seconded the motion. Motion passed unanimously.

XV. Consider and act upon a Resolution by the Board of Directors of the Greater Texoma Utility
Authority accepting the contract with Crescent Contractors, Inc. for the Bear Creek Special
Utility District Pump Station project as complete.

General Manager Paul Sgile provided background information for the Board. Bear Creek SUD accepted the contract with Crescent Contractors, Inc. as complete. Board Member Scott Blackerby made the motion to accept the contract with Crescent Contractors, Inc. for the Bear Creek SUD Pump Station project as complete. Board Member Donald Johnston seconded the motion. Motion passed unanimously.

XVI. Consider and act upon Budget Amendment for FY 2022-2023

The Budget Committee consisting of Brad Morgan, Robert Hallberg, Kris Spiegel and Henry Koehler committee reviewed the budget amendment on September 13, 2023. Debi Atkins, Finance Officer, provided background information for the Board. Board Member Scott Blackerby made the motion to approve the Budget Amendment for FY 2022-2023. Board Member Kris Spiegel seconded the motion. Motion passed unanimously.

XVII. Consider and act upon Budget for Fiscal Year October 1, 2023 – September 30, 2024.

Debi Atkins, Finance Officer provided background information for the Board.

Board Member Ken Brawley made the motion to convene into Executive Session at 12:35 p.m. Board Member Robert Hallberg seconded the motion. Motion passed unanimously.

XVIII. Executive Session

Pursuant to Government Code, Section 551,074, the Board of Directors may adjourn into closed Executive Session to discuss the following:

- A. Personnel Matters
 - (i) Consider evaluation, duties and employment of Authority General Manager
 - (ii) Consider evaluation and duties of administrative and operational personnel
- B. Consultations Between Governmental Body and Its Attorney
 - (i) Consider GTUA contract negotiations

XIX. Regular Session

Board reconvened at 1:29 p.m.

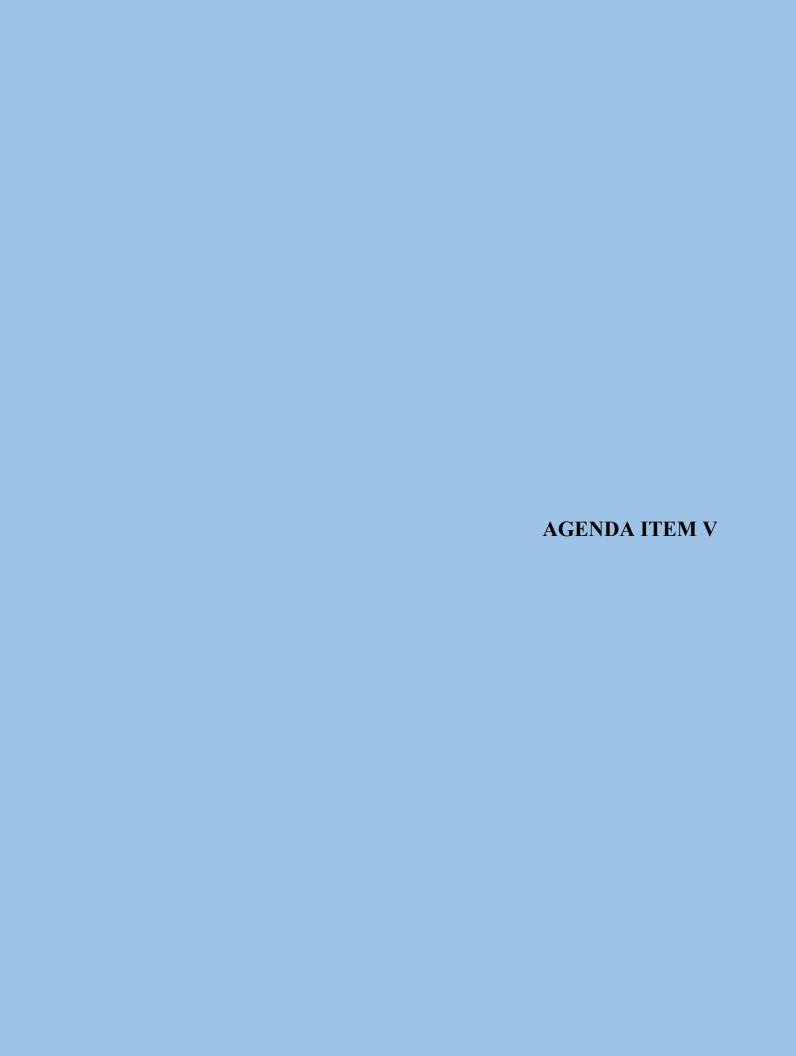
Board Member Scott Blackerby made the motion to move to amend the staff wages and benefit cost line item of the GTUA Budget to be \$1,457,664.28 and the increased amount be allocated at the discretion of the General Manager. Board Member Kris Spiegel seconded the motion. Motion passed unanimously.

- XX. Receive General Manager's Report: The General Manager will update the Board on operational and other activities of the Authority.
 - General Manager informed the Board about a meeting with North Texas Municipal Water District to discuss supplying water to future customers.
 - Bonds closed for Gober MUD and White Shed WSC.
 - TWDB has released the IUP for SRF Funding and the City of Whitewright is included in the initial invited list.

XXI Adjourn

Board Member Ken Brawley made the motion to adjourn. Board Member Robert Hallberg seconded the motion. Board President Brad Morgan declared the meeting adjourned at 1:32 p.m.

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Recording Secretary	Secretary-Treasurer



RESOLUTION NO. _____

A RESOLUTION BY THE BOARD OF DIRECTORS OF THE GREATER TEXOMA UTILITY AUTHORITY AUTHORIZING PAYMENT OF ACCRUED LIABILITIES FOR THE MONTH OF SEPTEMBER

	CURRENT	PRIOR MONTH	PRIOR YEAR
GENERAL:			
Audit			
Dues and Subscriptions			
American Express - National Society of Professional Engineers certification for PS	299.00		
Fuel and Reimbursements for Mileage			
Nichole Sims-Murphy (Reimbursement for mileage) Tasha Hamilton (Reimbursement for mileage) Paul Sigle (Fuel August & September) Stacy Pactrick (Reimbursement for mileage August & September) Velma Starks (Reimbursement for mileage) Valero Fleet Plus (Fuel - operations vehicles)	42.58 25.81 261.67 19.92 25.86 2,949.64		
<u>Insurance</u>			
Paul Sigle (Personal Auto, August & September) TWCA Risk Management (Workers' compensation insurance)	202.48 432.00		
Leases/Rental Fees			
Pitney-Bowes (Mailing system) North Texas Regional Airport (Lease - administrative offices)	105.00 2,456.72		
<u>Legal Fees</u>			
Wynne & Smith, LLC (Agenda, Board Meeting) Wynne & Smith, LLC (City of Weston Wastewater Operation service agreement)	406.25 187.50		
Maintenance Agreements			
Novatech (Konika-Minolta copier)	761.54		
Meetings and Conferences			
Feast On This (BOD Lunch) American Express - TWCA Conference August & September	261.00 208.34		
<u>Miscellaneous</u>			
American Express - Banking fees for August & September Office Depot Credit - Banking fees Valley View Consulting (Investing fees)	377.44 69.69 14,692.81		
<u>Postage</u>			
United States Postal Service - Renewed post office Box 911297 for 1 year United States Postal Service (Meter Refill)	398.00 500.00		
Professional Services			
Final Details (Cleaning Service) Gonzalez Landscape (Lawn Care, August & September)	585.00 291.66		
Repair & Maintenance - Building & Equipment			
Diamond Computers (Labor & On Site visit, exchanged router power supply) Diamond Computers (McAfee for TH & PS)	167.50 39.95		
Repair & Maintenance - Administrative and Operations Vehicles			
Auto Works (2014 F150 repaired rear differential, front and back breaks, 8 spark plugs and air filter LP 116-1476) Discount Tire (2012 Ford F150 4 new tires)	2,611.29 1,222.48		
<u>Supplies</u>			
American Express (General Office Supplies, Zoom, Toner, trash bags, drums, index tabs GoDaddy 365 renewal for EK and NM) Bank of Texas Visa (Adobe Pro, Sharp Calculator for SP) Lowes (Small handtools and screws)	1,171.97 89.14 347.92		
Training			
American Express - Training for DT, Pumps and Motors	598.00		
<u>Utilities</u>			
ATMOS Energy (Gas)	103.56		

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City of Denison (Water) City of Sherman (Trash services, August) Shell Energy (Electric) Sparklight (Internet) Zulty Inc.(phone lines - local & long distance) Dave Tomlinson (Reimbursement for cell phone expenses) Eric Kyukendall (Reimbursement for cell phone expenses) Nichole Murphy (Reimbursement for cell phone expences) Paul Sigle (Reimbursement for cell phone expense) Richard McCool (Reimbursement for cell phone expense) Steve White (Reimbursement for cell phone expense) Steve White (Reimbursement for cell phone expenses) Wayne Eller (Reimbursement for cell phone expenses)	228.35 85.00 719.94 131.44 173.38 25.00 25.00 67.58 16.68 25.00 25.00	PRIOR MONTH	PRIOR YEAR
TOTAL:	\$ 33,540.50	\$ 15,038.89	\$ 23,930.88
SOLID WASTE:			
<u>Utilities</u>			
Grayson-Collin Electric Starr Water Supply	142.26 382.63		
TOTAL:	\$ 524.89	\$ 208.85	\$ 189.85
	9 021100	Ψ 200.00	ψ 100.00
WASTEWATER:			
Advertising			
American Express (Sherman 2023 - Ad, South WWTP (Industrial) Emergency Generator, Swtichgear and Electrical Upgrades equip. ran in Herald Democrat 8/6/23-8/13/23)	304.92		
American Express (Sherman 2023 - Ad, South WWTP (Industrial) Emergency Generator, Swtichgear and Electrical Upgrades equip. ran in Gaineville Daily Register)	918.80		
American Express (Sherman 2023 - Ad, Post Oak WTP PKG #2, Equipment procurement for two Meters, Gauges, Flowmeters etc. ran in Herald Democrat 8/6/23-8/13/23)	640.40		
American Express (Sherman 2023 - Ad, Open bids for South WWTP Membrane Bioreactor System package ran in McKinney Gazette 8/13/23-8/20/23)	983.41		
American Express (Sherman 2023 - Ad, Post Oak WTP PKG #2, Equipment procurement for two Meters, Gauges, Flowmeters etc. ran in Herald Democrat 8/6/23-8/13/23)	70.18		
American Express (Sherman 2023 - Ad, Open bids for South WWTP Membrane Bioreactor System package ran in Herald Democrat 8/13/23-8/20/23)	599.07		
American Express (Sherman 2023 - Ad, Post Oak WTP PKG #2, Equipment procurement for two Meters, Gauges, Flowmeters etc. ran in Gainesville Daily Register)	246.00		
American Express (Sherman 2023 - Ad, Post Oak WTP PKG #2, Equipment procurement for two Meters, Gauges, Flowmeters etc. ran in McKinney Gazette 8/6/23-8/13/23)	1,363.28		
American Express (Bells 2022 - Ad, Open bids for WWTP Rehab ran in McKinney Gazette 8/20/23-8/27/23) American Express (Bells 2022 - Ad, Open bids for WWTP Rehab ran in Gainesville Daily Register)	1,254.74 938.80		
American Express (Sherman 2023 - Gainesville Daily Register ad to bid for the South WWTP MBR equipment procurement)	617.20		
Construction Contracts			
Archer Western (Pottsboro 2019 - WWTP Expansion & Rehab for .65 MGD flow rate. Pay App #5) BELT (Sherman 2023 - South Side Industrial Sanitary sewer PH1 Pay App #1) Lynn Vessels (Sherman 2023 - Hickory HIII Offsite Water & Sanitary Sewer Improvements materials) Lynn Vessels (Sherman 2021 - 98% complete NW Sewer and Force Main pay app #14) Lynn Vessels (Sherman 2021 - 98% complete NW Sewer and Force Main pay app #15) Plummer (Pottsboro 2019 - WWTP PH2 RPR Services through 7/28/23) Plummer (Pottsboro 2019 - WWTP PH2 construction phase services through 7/28/23) Plummer (Pottsboro 2019 - WWTP PH2 construction phase services through 8/25/23) Plummer (Pottsboro 2019 - WWTP PH2 RPR Services through 8/25/23) Plummer (Pottsboro 2019 - WWTP PH2 RPR Services through 8/25/23) Plummer (Sherman 2022 - WWTP PH2 Rectrical Switchgear Design for electrical generator services through 7/28/23) Plummer (Sherman 2022 - WWTP PH2 RPR Services through 6/30/23) Plummer (Pottsboro 2019 - WWTP PH2 RPR Services through 6/30/23) Plummer (Pottsboro 2019 - WWTP PH2 construction phase 2 services through 6/30/23) Plummer (Pottsboro 2019 - WWTP PH2 construction phase 2 services through 6/30/23) Red River Construction (Sherman 2020 - Post Oak WWTP Primary Clarifier #1 Equip Replace. & Sludge Transfer Rehab Pay App #6) Red River Construction (Sherman 2020 - Post Oak WWTP Aeration Basin & other secondary treatment improvements #26) Red River (Sherman 2023 - Scissor Lift rental for WTP Rehab for the period of 8/2/23-8/16/23)	362,685,38 1,875,998,6 615,872,45 38,639,26 15,485,79 6,440,00 6,891,00 10,336,50 4,830,00 19,670,27 354,933,03 5,635,00 37,900,50 302,549,64 19,304,00 89,724,89 2,244,84		
Engineering Fees			
Antero Group (Bells 2022 - WWTP Engineering services Rehab Final Plans & Specs, Bid support) Binkly & Barfield (Sherman 2021 - Southside Industrial Sanitary Sewer Replacement for 7/31/23) City of Sherman (Sherman 2020 - Reimbursement for the Equalization Basin Improvements) City of Sherman (Sherman 2023 - Reimbursement for Hickory Hill Utility Improvements) City of Sherman (Sherman 2021 - Reimbursement for the WTP Vulnerability Assessment Security Update) City of Sherman (Sherman 2023 - Reimbursement for the WTP Rehab) City of Valley View (Valley Veiw 2022 - Reimb. for KJE engineering services for Waste Water Sys. Improvements Pad Funding Phase for	5,385.12 8,449.41 21,280.00 99.99 26,849.34 29,258.40		
7/31/23) Cohn & Gregory (Sherman 2023 - WTP materials, Fire retardant direct drive PPs Fan/mtr)	115.00 10,490.88		
Cohn & Gregory (Sherman 2023 - Materials for WTP) Cohn & Gregory (Sherman 2023 - WTP materials)	449.68 1,699.92		
Cohn & Gregory (Sherman 2023 - WTP Rehab 8x6 Concentric reducing exp jnt EPDM Sherman) Cohn & Gregory (Sherman 2023 - WTP Rehab materials & equipment 4"x6" Rubber single sphere exp joint)	2,585.14 696.00		
Cohn & Gregory (Sherman 2023 - WTP Rehab misc. nuts, bolts, and rods) Freese & Nichols (Sherman 2022 - Engineering services for Terminal Storage Reservoir as of 7/28/23)	1,704.48 29,709.56		
Freese & Nichols (Sherman 2022 - Engineering services for Terminal Storage Reservoir as of 8/25/23) Geotex Engineering (Sherman 2023 - Hickory Hill Water & Sewer Improvements testing for August 2023)	49,991.21 1,439.62		
Mead & Hunt - (Sherman 2017 - Post Oak WWTP Aeration & Secondary Treatment services for August 2023) Mead & Hunt - (Sherman 2020 - Post Oak Equalization Basin Improvements for August 2023) Pape-Dawson (Sherman 2023 - WTP Concentrate Discharge & Outfall Design services through 8/25/23)	3,315.63 1,509.93 6,481.00		

Spiars Engineering (Sherman 2023 - Water & WW for Hickory Hill Thoroughfare & Utility Impr. Const and final design for 7/31/23) Spiars (Sherman 2023 - Water & WW for Hickory Hill Thoroughfare & Utility Impr. Const and final design for 8/31/23)	CURRENT 7,800.00 2,400.00	PRIOR MONTH	PRIOR YEAR
<u>Legal</u>			
Wynne & Smith (Sherman 2023 - City of Sherman WWTP Construction Mgmt at Risk (CMAR) & review of conditions)	2,268.75		
<u>Miscellaneous</u>			
Jones Lang LaSalle Brokerage (Sherman 2023 - Supplemental railway permit #23-68873 for Industrial WWTP)	2,000.00		
Paying Agent Fees			
Bank of Texas Trust (Ector 2017 - GTUAECTOR17 10/1/23) Bank of Texas Trust (Bells 2022 - GTUABELLS22 10/1/23) Bank of Texas Trust (Sadler 2016 - GTUASADLER16 10/1/23) Bank of Texas Trust (Whitewright 2015 - GTUAWHITE15 10/1/23)	300.00 300.00 300.00 300.00		
TOTAL:	\$ 3,994,258.27	\$ 1,231,212.09	\$ 604,451.09
WATER:			
Advertising			
American Express (Sherman 2022 - Ad, equipment procurement for Lake Texoma two each 1000 HP motor 16.5 MGD vertical pump Ran			
in Herald Democrat 8/6/23-8/13/23) American Express (Sherman 2022 - Ad, equipment procurement for Lake Texoma two each 1000 HP motor 16.5 MGD vertical pump ran	645.54		
in McKinney Gazette 8/6/23-8/13/23) American Express (Sherman 2022 - Ad, equipment procurement for Lake Texoma two each 1000 HP motor 16.5 MGD vertical pump ran	1,403.98		
in Gainesville Daily Register	918.00		
Construction Costs			
BELT (Princeton 2022 - Water MainCIP projects 6,8 & 17. Pay app #5) Garney (Sherman 2022 - CMAR 36" NW/SW water main transmission line through 7/30/23-8/25/23) Hayes Construction (Gober 2021 - FM 68, CR 3710 & CR 3310 Waterline Improvements Pay App #1) Landmark Structures (Princeton 2022 - 2.5 MG Elevated Storage Tank. Pay App #15) Landmark Structures (Princeton 2022 - 2.5 MG Elevated Storage Tank. Pay App #16) NTMVD (Sherman 2022 - LK Texoma Pump Station 2019 electrical improvements as of 8/29/23) THI (Krum 2017 - Masch Branch Water Well Pay App #8) Underwood (Whitewright 2019 - Water line improvement project CO #1 approved)	104,301.01 54,368.41 257,549.75 49,708.75 343,064.19 50,924.00 102,097.45 10,500.00		
Winsupply (Bells 2022 - Meter installation hardware) <u>Engineering Fees</u>	2,904.50		
City of Sherman (Sherman 2022 - Reimbursement for the Shepherd Dr Sewer line Ext.) City of Gainesville (Gainesville 2022 - Reimburse Kirnley Horn engineerings fees for Foundry Road 16 inch water line for 6/30/23) City of Gainesville (Gainesville 2022 - Reimburse Kirnley Horn engineerings fees for Foundry Road 16 inch water line for 7/31/23) Garver (Sherman 2022 - WTP Expansion project. Professional Engineering Services through 8/25/23) Hayter Engineering (Gober 2021 - TWDB Water System Improvements dated 5/31/23) LCRA (Sherman 2023 - Water Tests for Lead & Copper Rule phase 2) Hayter Engineering (Gober 2021 - TWDB Water System Improvements construction review 15% complete) McManus & Johnson (Van Alstyne 2021 - Elevated Storage Tank Bid %50 bid phase services complete) Freese & Nichols (Sherman 2023 - Lead & Copper Compliance Program Phase 2 through 7/31/23) Freese & Nichols (Sherman 2022 - NW & SW transmission Pipeline services through 8/25/23) Freese & Nichols (Sherman 2022 - Lake Texoma Pump Station Expansion Admendment 1 through 8/31/23) Freese & Nichols (Sherman 2022 - Shepherd 2.0 MG elevated Storage Tank for services through 8/25/23) Pape-Dawson (Sherman 2022 - Sherman Program Management services through 8/25/23. Tinfrastructure improvements program) Parkhill (Sherman 2021 - Sherman emergency power generation for July 2023 engineering services)	5,543.60 1,770.00 5,355.00 539,584.53 1,585.00 9,450.00 2,400.00 5,000.00 15,155.52 126,368.44 57,913.29 32,703.13 313,194.03 5,529.47 21,068.54		
<u>Groundwater</u>			
American Express (NTGCD - TWCA Conference, Sun Coast Learning WP, TAGD, TWCA for Sept) American Express (RRGCD - TWCA Conference, Sun Coast Learning WP, TAGD, TWCA for Sept) AT&T Mobility (NTGCD - W. Parkman - cell phone) Allen Burks (NTGCD - cell phone reimbursement, June & July) Allen Burks (RRGCD - Cell phone reimbursement, June & July) Bank of Texas Visa (NTGCD - BOD Chick-Fil-A) Bank of Texas Visa (RRGCD - Grasyon County Posting of permit hearing) Kenneth Elliott (NTGCD - cell phone reimbursement August cell use and well monitoring supplies & September) Kenneth Elliott (RRGCD - cell phone reimbursement August & September) Paul Sigle (NTGCD - cell phone reimbursement, August & September) Paul Sigle (RRGCD - cell phone reimbursement, August & September) Valeror Fleet Plus (NTGCD - Fuel) Valeror Fleet Plus (RRGCD - Fuel) Velma Starks (NTGCD - mileage reimbursement) Velma Starks (RRGCD - mileage reimbursement) Zulty, Inc. (NTGCD - 800 line, local & long distance) Zulty, Inc. (RRGCD - 800 line, local & long distance)	910.07 910.06 74.40 12.50 309.74 4.00 119.37 25.00 16.66 275.90 64.41 13.97 31.25 173.37		
Miscellaneous			
Gonzalez Landscape (Sherman 2012 - Pump Station mowing August & September) BLX (Sherman 2015 - Interim Arbitrage Rebate Report for period ending 6/17/23) Chapin Title (Sherman 2023 - Purchased Property from Schachar Family for easements) Chapin Title (Sherman 2023 - Sherman Ventures File # 322747 purchased for easement) FAO, USACE (Sherman 21 - O&M and RR&R cost for water storage space in Lake Texoma from 10/21/23-10/20/24. For account DACW56-05-W5007	400.00 1,000.00 277,455.00 227,158.00 6,978.45		

1	CURRENT	PRIOR MONTH	PRIOR YEAR
Paying Agent Fees			
Bank of Texas Trust (Bells 2005 - BELLS05 10/1/23) Bank of Texas Trust (Bolivar - GRETEUTIL042 10/1/23) Bank of Texas Trust (Ector 2013 - GRTEXOMA 2013 10/1/23) Bank of Texas Trust (Ector 2013 - GRTETEUTIL043 10/1/23) Bank of Texas Trust (Whitewright 2004 - GRETEUTIL043 10/1/23) Bank of Texas Trust (Whitewright 2019 - GTUAWHITE19A 10/1/23) Bank of Texas Trust (Whitewright 2019 - GTUAWHITE19B 10/1/23)	250.00 325.00 225.00 125.00 300.00 600.00		
CGMA Equipment			
Stewart & Stevenson (CGMA - Bloomdale Pump Station emergency generator lease from 8/14/23-9/10/23) USA Bluebook (CGMA - Pulsatron E+ w/ Pulse Input)	6,489.00 6,824.76		
CGMA Repair & Maintenance			
Brenntag Southwest (CGMA - chemicals to sanitize pump station lines) Burnside Air Conditioning (CGMA - Air conditioner repair) Enviornmental Monitoring Lab (CGMA - Nitrate Nitrogen, Nitrite Nitrogen Water tests, multiple test sites along water lines) Kemp Lawn Maintenance (CGMA - Bloomdale Pump Station) Prestige Worldwide Tech (CGMA - Bloomdale Pump Station - In-ine meter testing services (meter calibration)) Pump Solutions (CGMA - Bloomdale Pump Station - Labor / Crane truck for service call on 9/7/23 to check bearing temperture) Texas Excavation Safety System, Inc. (CGMA - Message Fees, August & September) USA Bluebook (LED black light, Hach Monochlor F powder Pillows, Hybrid 3 rail blue marking posts)	4,886.40 748.00 1,128.00 380.00 2,409.85 756.00 101.65 3,119.95		
Home Depot (Misc materials and supplies, hex bolts, sealant tape, roofing screws, rust remover etc.) Tractor Supply (CGMA - various sized wrenches, LED Flash Light, premix fuel, 3lb hammer)	285.03 363.62		
CGMA Utilities			
A1 Little John (CGMA - Bloomdale P.S Portable toilet rental for 9/12/23-10/9/23) AT & T Mobility (CGMA - Benergency back up lines) AT & T U-Verse (CGMA - Bloomdale Pump Station, Internet) North Texas Municipal Water District (Water Usage, June) Shell Energy (Bloomdale Pump Station) Waste Connections Lone Star (CGMA - Bloomdale Pump Station trash collection)	130.44 112.46 351,146.00 27,990.36 194.00		
TOTAL:	\$ 3,046,031.33	\$ 5,246,847.52	\$ 2,178,999.83
GRAND TOTAL:	\$ 7,074,354.99	\$ 6,493,307.35	\$ 2,807,741.77

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE GREATER TEXOMA UTILITY AUTHORITY THAT the Secretary-Treasurer is hereby authorized to make payments in the amounts listed above.

On motion of	and
seconded by	, the foregoing
Resolution was passed and approved on this, thethe following vote:	_ day of by
AYE: NAY:	
At a regular meeting of the Board of Directors of the Greater	Texoma Utility Authority.
	President
ATTEST:	
Secretary/Treasurer	





GREATER TEXOMA UTILITY AUTHORITY AGENDA COMMUNICATION

DATE: October 12, 2023

SUBJECT: AGENDA ITEM NO. VII

PREPARED AND SUBMITTED BY: Paul M. Sigle, General Manager

RECEIVE UPDATE ON CITY OF SHERMAN'S MAJOR INFRASTRUCTURE PROGRAM

ISSUE

Receive Update on City of Sherman's Major Infrastructure Program

BACKGROUND

The City of Sherman is executing a major infrastructure improvements program to meet the fast-growing needs of the city including industrial, commercial and residential users. The city needs to complete certain key infrastructure projects to meet the planned industrial expansion needs of significant industrial users before 2025.

In order to meet these needs, the City of Sherman contracted with Pape-Dawson to provide program management services for the City's Major Infrastructure Improvements Program consisting of nine projects. The program includes the following projects:

- 1. Raw Water
 - a. Lake Texoma Raw Water Pump Station Expansion
 - b. 100 MG Terminal Storage Reservoir
- 2. Water Treatment Plant
 - a. Concentrate Discharge System
 - b. 5 MGD Expansion to existing UF/RO Plant
 - c. New 15 MGD South UF/RO South Plant
- 3. Distribution System
 - a. 36" West Sherman Water Main
 - b. 2 MG Elevated Storage Tank
- 4. Wastewater Treatment Plant
 - a. WWTP Masterplan
 - b. South WWTP MBR
- 5. Shepherd Drive Not Funded by GTUA

Toby Flinn, Project Manager with Pape-Dawson Engineers, will provide an update on the projects at the Board meeting.



CITY OF SHERMAN – PROGRAM MANAGEMENT

Monthly Report

August 2023



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Reporting Period for August 2023:

July 29, 2023, through August 31, 2023

I. EXECUTIVE SUMMARY

For the August 2023 reporting period Pape Dawson continued to provide program management services for the City of Sherman (CoS) Major Infrastructure Improvements Program consisting of nine projects and one master plan study. The projects currently on the critical path are the Water Treatment Plant Concentrate Discharge, the 36" Inch West Sherman Water Main, and the South WWTP-MBR. Numerous project coordination meetings and workshops were held throughout the month. Procurement activities were conducted on the WTP projects as well as reviewing and participating in CMAR presentations for the South WWTP-MBR project. CMAR contract negotiations were initiated on the MBR project while working with all parties to prepare for City Council approval. Additional significant activities included working with the various stakeholders to negotiate the GMP and value engineering on the 36"Inch West Sherman Water Main and WTP Concentrate Discharge projects.

Evaluation of schedules and of the overall program critical path is ongoing. As of this reporting period, the following summaries are noted on the critical path projects:

- South WWTP-MBR: Current projections for substantial completion of this project are
 three to four months after the proposed start of production date for TI. Options are
 being evaluated to shorten the construction time as coordination is underway with TI to
 assess overall wastewater needs.
- 36- Inch West Sherman Water Main: Including a construction milestone to complete
 the portion of the pipeline necessary to supply the TI plant may mitigate risk associated
 with this project.
- Sherman WTP Concentrate Discharge System: The WTP projects will be completed prior
 to the Concentrate Discharge system that could impact commissioning and operations.
 Construction sequencing to complete the discharge pipeline and channel first and the
 implementation of temporary pumping capacity may limit risk associated with this
 project.





II. PROGRAM MANAGEMENT

A. Program Management Activities

The Program Manager (PgM) performed the following activities during this reporting period:

- WTP EDR Rehab Bid opening for BP-1, 8 August 2023
- WWTP MBR CMAR Presentation 17 August 2023
- Texoma Quarterly City of Sherman, GTUA and NTMWD Coordination Meeting 14
 August 2023
- TI SM1 Permit Coordination, 22 August 2023
- TI Utilities Meeting, 30 August 2023
- Sherman WTP Bi-Weekly Status Meetings, 2 and 30 August 2023
- Weekly WTP Concentrate Discharge System meetings, 3, 10, and 31 August 2023
- Weekly 36-Inch Water Main meetings, 3, 10, 17, 24, and 31 August 2023
- Weekly WWTP meetings 8, 15, 22 and 29 August 2023
- Bi-weekly program team meeting to prepare for CoS meetings, 8 and 22 August 2023
- Bi-weekly program team meetings with CoS, 9 and 23 August 2023
- Weekly Program Management team meetings to coordinate program oversight, review budget and schedule, discuss risk management, and other program management activities
- Coordinated and facilitated discussions and potential resolutions with all parties related to Garney's initial GMP on the 36"inch West Sherman Water Main and Concentrate
 Discharge projects

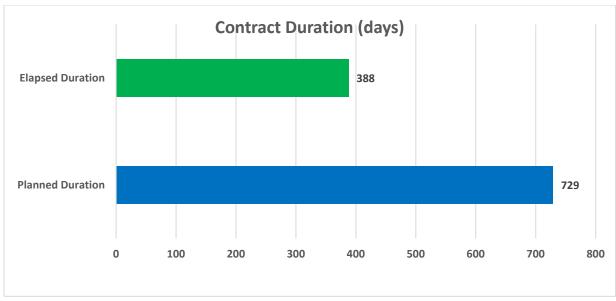
B. Program Metrics

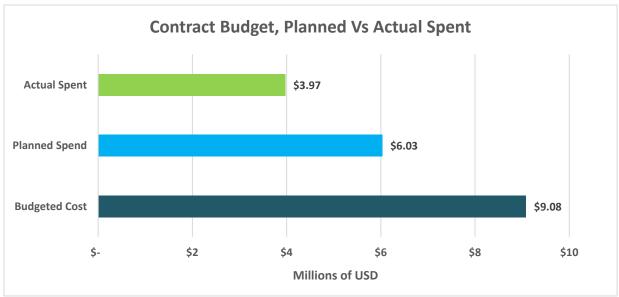
Program Manager Contract Start date: 08/01/2022 Program Manager Contract End date: 07/31/2024

Forecasted overall Program completion: 09/30/2027









C. Program Management Plan (PMP)

The program management plan is current.

D. Risk Management

Risks are evaluated regularly by the Program Management team. New risks are added, risk rankings are modified, and risks are closed based on the current project status and progress. Forty-eight risk items have now been identified. Of these 48 risks, 10 have been closed; 21 have an assigned Risk Rating of Low or Moderate and are being monitored; 15 have a Risk





Rating of High and are being monitored closely and mitigation strategies are being implemented through design, procurement, and contract coordination to avoid or mitigate these risks; and, one item continues with a Risk Rating of Very High where mitigation activities have been implemented to reduce the impact of these items as noted:

• Long lead procurement for electrical equipment for the Concentrate Discharge system could delay completion of this project. This would impact on the WTP project as well. Garney's CMAR contract has been amended to include the Concentrate Discharge System and procurement of long lead items has been initiated to shorten the anticipated construction schedule. Present schedules indicate that the WTP project may be completed before the Concentrate Discharge, which could delay commissioning of the WTP. Construction sequencing and options for temporary pumping to the Concentrate Discharge System force main and discharge channel are being evaluated to limit this risk.

E. Other Program Management Support

Program management activities that are ongoing and were continued through this reporting period include:

- Program Schedule- The program schedule is reviewed bi-weekly or as needed to assess status. As new information is available or as individual schedules are modified the program schedule is updated. Schedules for recently added projects have been received and incorporated into the overall Program Schedule
- Program Budget- The Program budget, hours expended, and current budget status are
 reviewed by-weekly, or as needed to assess status and to identify areas of concern
 where adjustments may be necessary. The PgM continues to evaluate a potential reallocation of funds within the existing budget to reflect actual costs and Program
 Management Activities to date.
- Dashboard- The project Dashboard is updated routinely to provide a high-level status of key program parameters.
- Coordination and oversight- In addition to the formal meetings and reviews cited above,
 PgM continues to coordinate with the design consultants, the CMAR contractors,
 construction contractors, utility providers, TI and other stakeholders to keep the





program progressing effectively, identify and resolve issues and concerns, and to keep CoS informed of progress, issues, and decisions / input required.

III. DESIGN

A. Sherman WTP Concentrate Discharge – Design Consultant: Pape-Dawson

- Review of the 100% design with the CMAR contractor resulted in minor changes that
 will be included in the Final Drawing Set
- Splitter Box Geotechnical and Subsurface Utility Engineering work has been completed and design work has been scheduled.
- GMP price negotiations and value engineering

Project Schedule

- Completed Subsurface Utility Engineering (SUE) for Splitter Box design.
- Completed Geotechnical Investigation and Report for Splitter Box design.

B. Lake Texoma Raw Water Pump Station (LTPS) – Design Consultant: FNI

- 30% Design drawings were submitted on 8/14/2023.
- Design oversight activities were conducted.
- Freese and Nichols, NTMWD, and the City met to discuss the yard piping layout and bridge access, further coordination necessary

Project Schedule

60% Design Submittal due 23 October 2023

C. Water Treatment Plant (WTP) – Design Consultant: Garver

Package 1 - 5 MGD WTP Expansion (UF/RO and HSPS) - North WTP

The design phase is complete.

Package 2 - 15 MGD WTP (UF/RO) – South WTP

- 60% Design Drawings and Specifications were submitted on 8/17/2023.
- Design oversight activities were conducted.
- Design review workshops to be scheduled and held in September.





 Bi-weekly virtual meetings are conducted to track progress and coordinate design efforts.

Package 2 (15 MGD) Disinfection Testing

- Pilot Building and Schedules were coordinated.
- On-site pilot plant development and coordination continued.

Schedule

90% Design drawings and specifications due 2/23/2024

D. 36" West Sherman Water Main – Design Consultant: FNI

- Progress meetings, 3, 10, 17, 24, and 31 August 2023
- Ongoing discussions regarding potential design revisions
- Coordinated with KHA and Spiars on the overhead electrical along Shepherd Drive
- Coordinated with KHA on the crossings and casings at Shepherd Drive
- Coordinated with TI on proposed service stub locations and flow lines.
- Coordinated crossing permits and encroachments.
- Support for easement acquisition ongoing

Schedule

- Substantial Completion: 02/14/2025
- Final Completion: 04/15/2025

E. 2 MG Elevated Storage Tank (EST) – Design Consultant: FNI

Design

Design oversight activities completed on 90% design and specifications.

Schedule

- 100% Design Submittal: 15 September 2023
- Final Sealed Design Submittal: 13 October2023

F. Wastewater Treatment Plant (WWTP) - Design Consultant: Plummer

Sherman WWTP Masterplan





The Master plan is currently being developed.

SOUTH WWTP – MBR

- 30% Design documents were submitted on 8/6/2023.
- Draft Preliminary Design Report was submitted on 8/16/2023.
- Development of maximum headworks values for the MBR plant and the Post Oak WWTP is in progress.
- Design workshops, internal and with CoS, were held to discuss process areas and design considerations.

Schedule

Preliminary schedule

• 60% Design: January 2024

90% Design: March 2024

G. Shepherd Drive - Design Consultant: Kimley-Horn

Design oversight services are complete.

H. 100 MG Terminal Storage Reservoir – Design Consultant: FNI.

- Site selection and hydraulic memorandums under development
- Contracts established and fieldwork scheduled to support design.
- Ongoing coordination with CoS and PD on project needs and schedule.

Schedule

- Site selection and hydraulic memorandum: 9 September 2023
- Site layout and land access permits: 29 September 2023
- Preliminary Design (30%): 11 December 2023

IV. CONTRACT PROCUREMENT SUPPORT

A. Sherman WTP Concentrate Discharge – Design Consultant: Pape-Dawson

Garney CMAR support

 Solicitation Set #1, Vertical Turbine Pumps and Electrical Equipment were received, evaluated, and low bid bidder selected.





 Solicitation Set #2 preparation was initiated and is currently being affected by the value engineering and alternatives process and delayed until the end of October.

B. LTPS - Design Consultant: FNI

- MCC/Switchgear and Pump 9/11/23 (open bids)
- Valve package: 18 September 2023 (submit to City)

C. WTP – Design Consultant: Garver

New 15 MGD WTP (UF/RO and HSPS)

No procurement activity during this reporting period

10 MGD EDR Rehabilitation

- Package 2, valves has been advertised.
- Package 2 (meters and Guage Sets) will go for approval in September 2023.

D. 36" West Sherman Water Main – Design Consultant: Freese & Nichols

• Bid package 4 (installation) scheduled 09/06/2023.

E. 2 MG EST – Design Consultant: FNI

Coordination with Tank Manufacturers is ongoing.

F. South WWTP - MBR - Design Consultant: Plummer

- The MBR preselection package documents were advertised. Two addenda have been posted, and a third addendum is in progress
- CMAR Presentation 17 August 2023
- CMAR Selection Recommendation by the Program Manager

G. Shepherd Drive – Design Consultant: Kimley-Horn

- KH is working with CoS for a contract amendment to provide additional bid phase services.
- City Council awarded contract to Mario Sinacola & Sons on 8/21/23.

H. Terminal Storage Reservoir – Design consultant: FNI

· No reportable actions this reporting period





V. CONSTRUCTION MANAGEMENT

A. Concentrate Discharge and Outfall – Design Consultant: Pape-Dawson

• No reportable actions this reporting period

B. LTPS – Design Consultant: Freese & Nichols

No reportable actions this reporting period

C. WTP – Design Consultant: Garver; Contractor: Archer Western

5 MGD WTP Expansion (UF/RO and HSPS)

Garver provided the following services:

- Reviewed submittals and RFIs from pre-purchased equipment suppliers and the general contractor
- Reviewed contractor's and pre-purchased equipment supplier's pay applications
- Coordinated and participated in August progress meeting
- Provided on-site inspections, including photos and daily reports

Archer Western (AW) performed the following work:

- Removed forms and patched the concrete wall in the Membrane room.
- Started the installation of the stainless-steel tubes in trench at UF feed strainers.
- Started the excavation of the 12" ROS membrane bldg.
- Demoing the existing pump pad at the HSPS.
- Started fabrication of the rebar & forms for the new pump pad at the HSPS
- Installed pipe hangers for 6" air pipe.
- Started the prefabrication of uni-strut supports for the chemical area, installed uni-strut supports in the ceiling for 6" Air for UF Train.
- Set the 6" ALP Line from Blower in place.
- Started to core drill the concrete for 12' ROS pipe in the Membrane BLDG.
- Core drilling the floor in Electric Room HSPS
- AW received, unloaded, and moved the new RO Units inside the Membrane BLDG.
- Core drilled the floor in the Electric Room at the HSPS.
- Installed conduct sleeves in equipment pads & grouted voids





15 MGD WTP (UF/RO)

No reportable activity for this reporting period.

D. 36" West Sherman Water Main – Design Consultant: FNI; CMAR Contractor:Garney

Garney is providing pre-construction services and coordinating with installation contractors to begin construction

E. 2 MG EST - Design Consultant: FNI

No reportable actions this period

F. South WWTP - MBR - Design Consultant: Plummer

No reportable actions this period

G. Shepherd Drive-Design Consultant: Kimley-Horn

City Council awarded contract to Mario Sinacola & Sons on 8/21/23 Construction Schedule being finalized

H. 100 MG Terminal Reservoir – Design Consultant: FNI

No reportable actions this reporting period

VI. SUPPORT SERVICES

A. Easement Acquisition Oversight

Concentrate Discharge and Outfall

Surveys have been completed. Survey for 101 Ranchers LLC (101 Ranchers) was finalized and provided to the appraiser. Force main alignment revised based on property owner's request.

36" West Sherman Water Main

All Initial Offers have been mailed out and twenty-six final offers mailed out. Currently, there are seventeen parcels in negotiations and ten pending closing through the title company. Ten parcels have closed, and nine parcels are pending condemnation action. 7Arrows has worked through most of the easements associated with the City of Sherman and TI. Possession of all easements is anticipated to be completed by 31 December 2023. 7Arrows will continue to





follow the acquisition process as the City continues to participate in negotiations and if necessary, proceeds to condemnation.

Shepherd Drive

No additional information for this reporting period

100 MG Terminal Storage Reservoir

- CoS is managing communication with the property owner's legal counsel (Charles McFarland)
- FNI has provided details regarding on-site work planned and the anticipated schedule.

I. Permit Oversight

Concentrate Discharge

- Texas Commission on Environmental Quality (TCEQ) permit has been approved.
- CoS is working with the Texas Department of Transportation (TxDOT) for the County
 Road FM 1417 Crossing Permit has been approved.

Shepherd Drive

No actions for this reporting period

J. Franchise Utility Coordination

Shepherd Drive

- Coordination with Oncor transmission and distribution team is ongoing.
- Continued coordination with NTMWD

VII. CRITICAL POINTS and INFORMATION NEEDS.

A. Issues, Concerns, and Information Needs.

Sherman WTP Concentrate Discharge and Outfall

Coordination of GMP pricing, scope modifications and value engineering

Lake Texoma Pump Station





Additional coordination is required with NTMWD to confirm if they will use the 54"
pipeline in the future, what type of butterfly valve they require for the tie-ins and if a
final solution can be found for the bridge access. Continued development of 60% design
of items not requiring NTMWD coordination

WTP Expansion UF/RO

None reported for this reporting period.

5 MGD WTP (UF/RO and HSPS)

None reported for this reporting period.

36" West Sherman Water Main

None reported for this reporting period.

2 MG EST

 Coordinate and finalize property acquisition and easement documents with Freese and Nichols

South WWTP- MBR

- Equipment lead times for the MBR plant may be a concern. Electrical items have a lead time of about one year. The decision was made to include primary electrical equipment (pad-mounted switchgear, generators, and transformers) for the MBR plant in the electrical project.
- Earlier in 2023, it was noted TI could expect a site-specific limit for fluoride. In the past
 month, TI expressed interest in the timeline of developing the site-specific limit and
 what the value would be as this would affect the required pretreatment. This item has
 prompted restarting weekly meetings between TI, the City, and the project team.
- CMAR onboarding and scheduling of task force meetings for specific design areas for the MBR plant could be an issue. The CMAR has presented an aggressive schedule. The task force meetings need to be scheduled in a timely manner. This could be a concern with schedules of participants

Shepherd Drive

None reported for this reporting period.





VIII. OBJECTIVES FOR NEXT 30- AND 60- DAYS

A. Concentrate Discharge System

- Work through pricing/GMP with Garney
- Work through remaining easement negotiations
- Bid Package #2 end of October

B. Lake Texoma Pump Station

- Continue development of pump station header and piping design
- Advertise the Pump and MCC procurement Packages.
- Follow up meeting with NTMWD operations team

C. WTP UF/RO

(Garver)

Package 1 5MGD WTP (UF/RO and HSPS)

 Continue providing review of submittals and RFIs from pre-purchased and prenegotiated equipment, suppliers, and the general contractor

Package 2 (15 MGD) WTP Expansion Preliminary Design

- Submit 60% design drawings and specifications
- Conduct bi-weekly virtual workshops

Disinfection Testing

• Continue development/coordination of on-site pilot plan.

5 MGD WTP (UF/RO and HSPS)

(Archer Western)

- Continue receiving various equipment
- Assembly and Installation activities

D. 36-Inch Water Main

Complete land acquisition documents.





 Incorporate revisions into final signed drawings for the August Bid Package 4 advertisement

E. 2 MG Elevated Storage Tank

• Submittal of 100% design drawings and specifications

F. WWTP Improvements

Information Gathering

 Provide test results for the existing industries and concentrate line at the water treatment plant. The City will provide this information when it becomes available.

Sherman WWTP Masterplan

- Model the Post Oak WWTP without the contributions from the South Interceptor
- Prepare the draft Masterplan report for review.

South Wastewater Treatment Plant - MBR

- Prepare and submit scope and fee revisions for MBR plant (Amendment No. 2).
- CMAR contract approval by City Council expected on 18 September 2023
- Continue the detailed design phase for the MBR plant. Several design packages will be included, which will be prioritized according to the CMAR's construction schedule.
- Select the MBR equipment supplier
- Coordinate with the City and industries on local limits and pretreatment needs

G. Shepherd Drive

• Continue Program oversight during construction

H. 100 MG Terminal Storage Reservoir

- Continue Program Design oversight activities
- Continue real property coordination





Appendix A - Program Master Schedule





	Overa	.II Program	Master Scr	iedule - At	Overall Program Master Schedule - August 2023 Update	
Activity ID	Activity Name	Remaining Duration	Start	Finish	2024	2025 Feb Mar Apr May Jul
City of She	herman Program Management Services Schedule	1471	15-Feb-22 A	16-Apr-29		
Key Milestones		1465	02-Aug-22 A	16-Apr-29		
		1465	02-Aug-22 A	16-Apr-29		
P100P000	NIP for Program Manager Contract	o	02-Aug-22 A			
P100P880	Award CMAR Contract for 36" W Sherman Water Main	0		13-Dec-22 A		
P100P860	5 MGD WTP North Exp UF/RO Construction Start	0	02-Jan-23 A			
P100P870	Wastewater Treatment Plant Masterplan Complete	0		04-Sep-23		
P100P970	5 MGD WTP North Exp UF/RO Complete	0		14-Feb-24*	•	
P100P810	Infrastructure Ready for TI Production	0		02-Jul-24*	•	
P100P600	First Two Year Program Contract Complete	0		31-Jul-24*	•	
P100P840	Shepherd Drive - Flanary Rd to US 75 Complete	0		30-Dec-24*	•	
P100P890	South Wastewater Treatment Plant - MBR Complete	0		25-Apr-25*		•
P100P815	36" W Sherman Water Main Final Completion	0		30-Apr-25*		*
P100P950	LTPS Expansion 2023 Complete	0		02-Dec-25*		
P100P960	100 MG Terminal Storage Reservoir Complete	0		05-May-26*		
P100P800	5 yr Program Completion	0		30-Jul-27*		
P100P850	15 MGD WTP South UF/RO Complete	0		16-Apr-29		
terface M	Interface Milestones	2	01-Nov-24	07-Nov-24		
00000	1 TO COLL 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	נ	01-Nov-24	07-Nov-24		
F 1001200	LIPS - Station Shutdown	ი !	01-N0V-24"	07-100V-24		
ogram M	Program Management Services	1471	02-Aug-22 A	16-Apr-29		
P101P020	P101P020 1.1 Program Management Support - Core Program Team (First 2 yrs)	243	02-Aug-22 A	31-Jul-24		
P101P030	1.1 Program Management Support - Core Program Team (Optional 3 yrs)	782	01-Aug-24	30-Jul-27		
2 Conduct	1.2 Conduct Program Kick-Off	0	02-Sep-22 A	07-Sep-22 A		
P102P025	1.2 Conduct Program Kick-off Meeting	0	02-Sep-22 A	02-Sep-22 A		
P102P030	1.2 Conduct Program Kick-off Meeting Agenda and Notes	0	02-Sep-22 A	07-Sep-22 A		
3 Program	1.3 Program Management Plan (PMP)	0	02-Aug-22 A	16-Feb-23 A		
P103P035	Develop Draft Program Management Plan (PMP) Sections	0	02-Aug-22 A	05-Dec-22 A		
P103P040	Draft Program Management Plan (PMP)	0		05-Dec-22 A		
P103P045	City of Sherman Review and Comment on Draft Program Management Plan (PMP) Sections	0	06-Dec-22 A	14-Dec-22 A		
P103P050	Develop Final Program Management Plan (PMP) Sections	0	14-Dec-22 A	02-Feb-23 A		
P103P055	Final Program Management Plan (PMP)	0		02-Feb-23 A		
P103P030L	1.3 Program Management Plan (PMP)	0	02-Aug-22 A	16-Feb-23 A		
P103P060	City of Sherman Review and Approve Final Program Management Plan (PMP) Sections	0	03-Feb-23 A	16-Feb-23 A		
4 Develop	1.4 Develop and Implement a Project Management Information System (PMIS)	1025	02-Aug-22 A	30-Jul-27		
P105P135	Develop PMIS - Rapid Ramp Up Plan (90 days)	0	02-Aug-22 A	08-Nov-22 A		
P105P140	Continued Development & Customization (90 days)	0	08-Nov-22 A	01-Mar-23 A		
P105P130L	1.4 Develop and Implement a Project Management Information System (PMIS)	243	02-Aug-22 A	31-Jul-24		
	APE-DAWSON — Remaining Level of Effort — Actual Level of Effort	Remaining Work Critical Remaining Work	▼ Summary	>	Page 1 of 10	man
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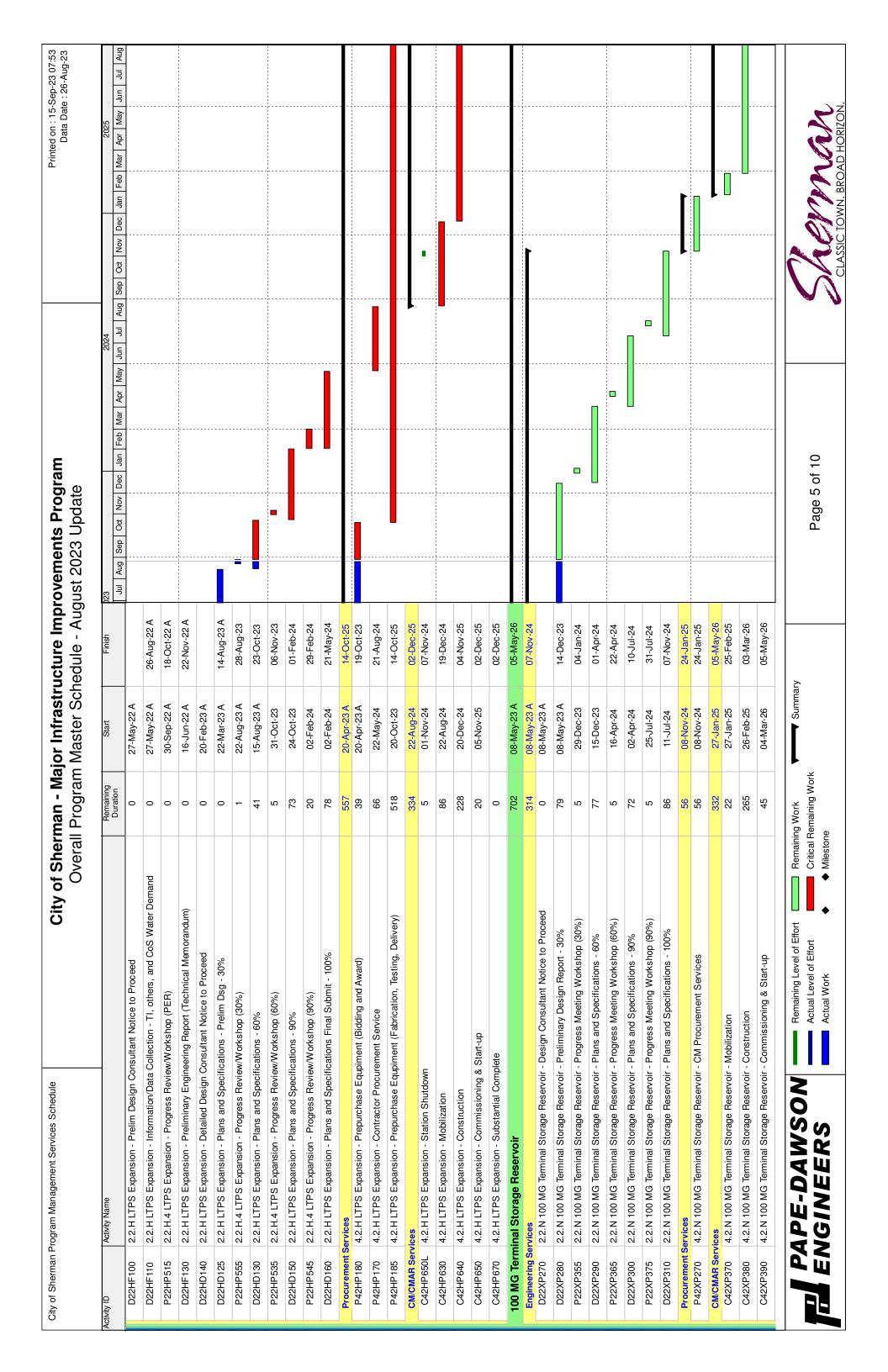
Printed on : 15-Sep-23 07:53 Data Date : 26-Aug-23 Jun Jul Aug Mar Apr May Dec Jan Feb Sep Oct Nov Aug Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Page 2 of 10 City of Sherman - Major Infrastructure Improvements Program Overall Program Master Schedule - August 2023 Update 39-Sep-22 A 13-Sep-22 A 25-May-23 A 25-Aug-23 A 26-Dec-25 19-Dec-25 13-Jan-23 A 27-Jan-23 A 19-Sep-22 A 01-Nov-22 A 22-Nov-22 A 30-Jun-23 A 13-Jan-23 A 07-Nov-24 18-Nov-22 A 20-Jan-23 A 11-Apr-23 A 30-Jun-23 A 21-May-24 26-Dec-25 15-Sep-23 31-Jul-24 29-Jul-27 31-Jul-24 31-Jul-24 29-Jul-27 31-Jul-24 31-Jul-24 29-Jul-27 31-Jul-24 31-Jul-24 30-Jul-27 04-Jan-24 17-Apr-24 30-Jul-27 29-Jul-27 30-Jul-27 Summary 02-Aug-22 A 02-Aug-22 A 02-Aug-22 A 02-Aug-22 A 03-Jan-23 A 03-Jan-23 A 02-Aug-22 A 02-Aug-22 A 02-Aug-22 A 02-Aug-22 A 02-Aug-22 A 02-Aug-22 A 07-Aug-23 A 10-Jan-23 A 02-Aug-22 A 02-Aug-22 A 02-Aug-22 A 02-Aug-22 A 02-Aug-22 A 02-Aug-22 A 02-Mar-23 A 02-Aug-22 A 15-May-23 A 12-Sep-22 A 08-May-23 A 22-Mar-23 A 16-Jan-23 A 30-Jan-23 A 19-Sep-22 A 14-Sep-22 A 20-Jan-23 A 02-Nov-22 A 01-Aug-24 01-Aug-24 01-Aug-24 01-Aug-24 Critical Remaining Work 1024 243 1024 243 1025 0 782 610 605 610 243 243 243 782 314 243 781 781 168 0 0 0 15 94 0 0 0 0 0 0 0 0 0 0 0 Remaining Work Milestone 2.4.M.1 Design Oversight - Shepherd Drive - Flanary Road to US Highway 75 - Preliminary Design 2.1.A.3 Design Oversight - WTP - 5 MGD WTP N Exp (UF/RO) - Final Design (90%) by Design C 2.1.A.1 Design Oversight - WTP - 5 MGD WTP N Exp (UF/RO) - Preliminary Design (30%) by De 2.4.M.3 Design Oversight - Shepherd Drive - Flanary Road to US Highway 75 - Final Design Design Preliminary Design (30%) by Design Cc 2.2.H.3 Design Oversight - Lake Texoma Pump Station Expansion 2023 - Final Design Design 2.2.H.1 Design Oversight - Lake Texoma Pump Station Expansion 2023 - Preliminary Design 2.3.K.1 Design Oversight - South Wastewater Treatment Plant - MBR - Preliminary Design yrs - Monthly Progress Reports Plant - MBR - Final Design 1.6 Conduct Program Progress Meetings - First 2 yrs - Meeting Agenda and Minutes 2.2.N.1 Design Oversight - 100 MG Terminal Storage Reservoir - Preliminary Design Updates - Optional 3 yrs Updates - First 2 yrs Final Design Design Remaining Level of Effort Final Design Design Preliminary Design Final Design Design Preliminary Design 2.2.F.1 Design Oversight - 36" W Sherman Water Main - Preliminary Design 1.5 Conduct Kickoff Meeting with CMAR/Contractors - Agenda and Minutes Actual Level of Effort City of Sherman Review and Approve Draft Program Baseline Schedule **Actual Work** 1.7 Prepare and Issue Monthly Progress Reports - Optional 3 yrs yrs Maintain Program Schedule and Issue Monthly Schedule Maintain Program Schedule and Issue Monthly Schedule 2.2.G.1 Design Oversight - 2MG Elevated Storage Tank -2.2.G.3 Design Oversight - 2MG Elevated Storage Tank -1.6 Conduct Program Progress Meetings - Optional 3 yrs 1.7 Prepare and Issue Monthly Progress Reports - First 2 1.7 Prepare and Issue Monthly Progress Reports - First 2 2.1.D.1 Design Oversight - WTP Concentrate Discharge 2.1.B.1 Design Oversight - 15 MGD WTP South UF/RO -2.2.F.3 Design Oversight - 36" W Sherman Water Main -2.1.D.3 Design Oversight - WTP Concentrate Discharge 2.3.K.1 Design Oversight - South Wastewater Treatment 1.6 Conduct Program Progress Meetings - First 2 yrs 1.5 Conduct Kickoff Meeting with CMAR/Contractors Data Turnover at the conclusion of Phase 1 Develop Draft Program Baseline Schedule PAPE-DAWSON City of Sherman Program Management Services Schedule 1.5 Conduct Kickoff Meeting with CMAR Contractors Draft Program Baseline Schedule 1.7 Prepare and Issue Monthly Progress Reports **ENGINEERS** Optional 3 Year Maintenance 1.6 Conduct Program Progress Meetings 1.8 Program Schedule Maintain PMIS Activity Name 1.8 Program Schedule P22HP525L P24MP685L P24MP695L P22GP130L P21BP250L P21DP385L D22XP270L P107P180L P108P185L P22FP110L P21AP225L P21AP235L P22HP505L P21DP375L P22FP130L D231P215L P109P170L D231P225L P106P155 P106P165 P107P160 P107P170 P108P165 P108P175 P105P150 P109P200 P105P160 P109P180

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Milestone

Actual Work

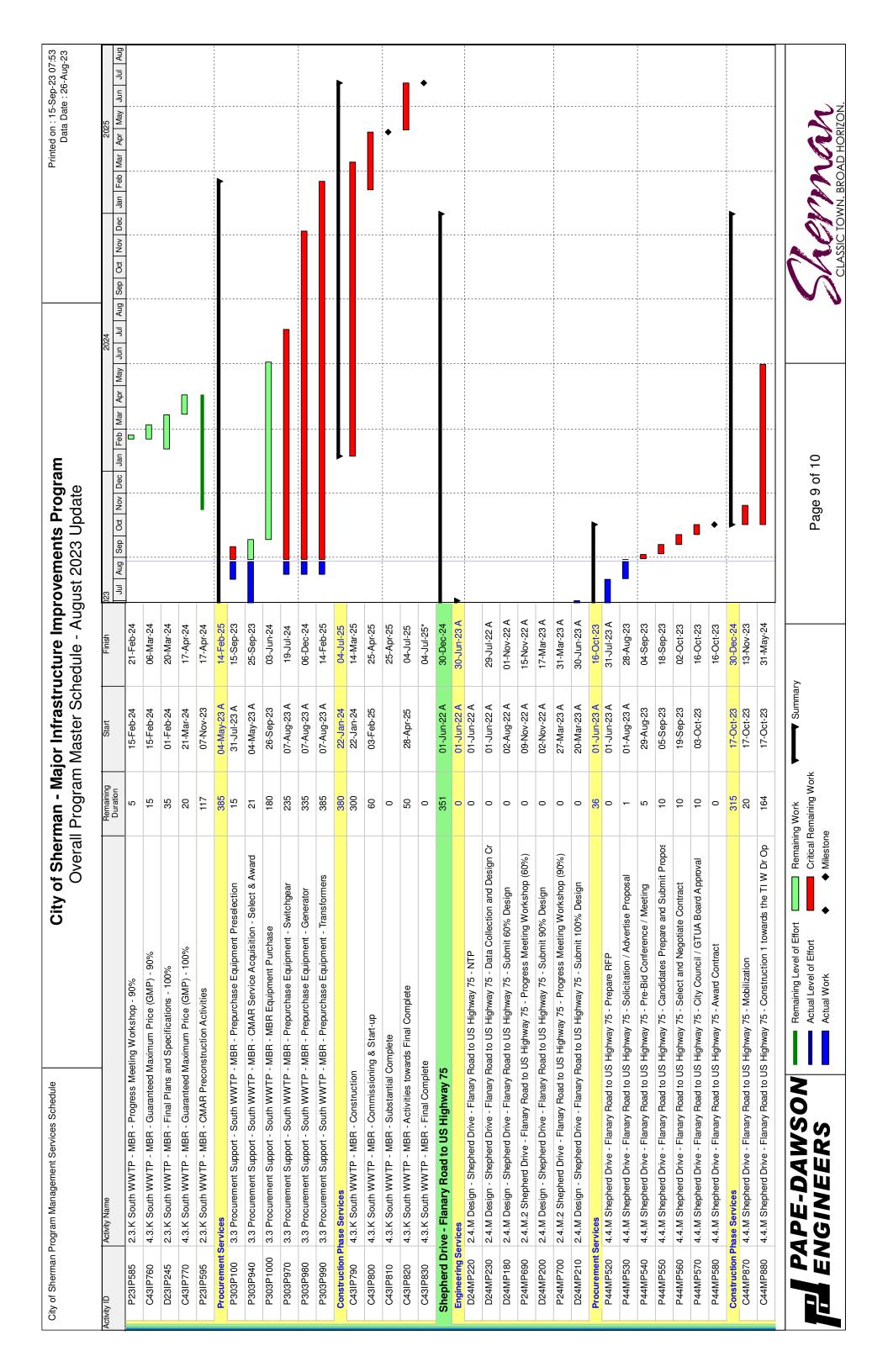
Activity ID Activity Name	Remaining Duration	Start	Finish	2025 2024 2025 2025 2024 2025
D22FF210L 5.1 Easement Acquisiton Oversight - 36" W Sherman Water Main	63	13-Jan-23 A	22-Nov-23	
tudy	9	02-Aug-22 A	04-Sep-23	<u></u>
P23IP510L 2.3.I.1 Design Oversight - Wastewater Plant Expansion - Study	9	02-Aug-22 A	04-Sep-23	
Sherman Water Treatment Plant Concentrate Discharge System	499	01-Jun-22 A	24-Jul-25	
Permit Acquisition Services	0	01-Jun-22 A	20-Jan-23 A	
Z. I.D Concentrate Discharge - Design Consultant Notice	D	01-Jun-zz A		
	0	15-Aug-22 A	10-Oct-22 A	
D21DP110 2.1.D Concentrate Discharge - Bio Studies	0	15-Aug-22 A	21-Oct-22 A	
D21DP130 2.1.D Concentrate Discharge - Brine Discharge Permit Approval	0	11-Oct-22 A	20-Jan-23 A	
Ser	46	07-Nov-22 A	30-Oct-23	
	D (UD-Dec-ZZ A		
	0	07-Nov-22 A	20-Jan-23 A	
	0	23-Jan-23 A	27-Jan-23 A	
D21DP200 2.1.D Concentrate Discharge - Acquire Right of Entry for Survey	0	05-Dec-22 A	14-Apr-23 A	
D21DP185 2.1.D Concentrate Discharge - Pipeline Survey	0	16-Jan-23 A	10-May-23 A	
D21DP175 2.1.D Concentrate Discharge - Plans and Specifications - 90%	0	23-Jan-23 A	15-May-23 A	
P21DP390 2.1.D.2 Concentrate Discharge - Progress Meeting Workshop (90%)	0	29-May-23 A	02-Jun-23 A	
D21DP190 2.1.D Concentrate Discharge - Plans and Specifications - 100%	0	16-May-23 A	30-Jun-23 A	
D21DP330 2.1.D Concentrate Discharge - Guaranteed Maximum Price (GMP) - 100%	0		28-Aug-23*	•
D21DP310 2.1.D Concentrate Discharge - Submit and Get Approve TCEQ Permit for Construction	4	10-Apr-23 A	31-Aug-23	
D21DP320 2.1.D Concentrate Discharge - Submit and Get Approve County Road Crossing Permit	4	10-Apr-23 A	31-Aug-23	
D21DP180 2.1.D Concentrate Discharge - Easement Acquisition	46	02-Jan-23 A	30-Oct-23	
t Se	471	16-May-23 A	16-Jun-25	
P41DP100 4.1.D Concentrate Discharge - CMAR Contractor Procurement Service	0	16-May-23 A	19-Jun-23 A	
P41DP130 4.1.D Concentrate Discharge - Solicitation Set 1 (Pumps/Elec Eq) - Advertise to Process Amend	25	22-May-23 A	29-Sep-23	
P41DP140 4.1.D Concentrate Discharge - Solicitation Set 2 - Advertise to Process Amendment	46	10-Jul-23 A	30-Oct-23	
P41DP150 4.1.D Concentrate Discharge - Electrical Equipment - Submittals to Deliver	424	02-Oct-23	15-May-25	
P41DP110 4.1.D Concentrate Discharge - Pre-Purchase Equipment	471	22-May-23 A	16-Jun-25	
CM/CMAR Services	408	02-Jan-24	24-Jul-25	
C41DP390 4.1.D Concentrate Discharge - Mobilization	19	02-Jan-24	26-Jan-24	
C41DP460 4.1.D Concentrate Discharge - SWWP Installation and Inspection	145	29-Jan-24	16-Aug-24	
C41DP440 4.1.D Concentrate Discharge - Electrical Equipment Installation	20	16-May-25	12-Jun-25	
C41DP400 4.1.D Concentrate Discharge - Construction	400	02-Jan-24	14-Jul-25	
C41DP410 4.1.D Concentrate Discharge - Commissioning & Start-up	30	13-Jun-25	24-Jul-25	
C41DP430 4.1.D Concentrate Discharge - Substantial Complete	0		24-Jul-25	
C41DP450 4.1.D Concentrate Discharge - Electrical Equipment Testing	30	13-Jun-25	24-Jul-25	
Lake Texoma Pump Station Expansion 2023	592	27-May-22 A	02-Dec-25	
Engineering Services	192	27-May-22 A	21-May-24	
PAPE-DAWSON —— Remaining Level of Effort —— Remaining Figure —— Critical Remaining	Remaining Work Critical Remaining Work	▼ Summary		Page 4 of 10
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Activity ID	Remaining Duration	Start	Finish D2	23 24 Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun	2024 2025 2026 n Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug
2 MG Elevated Storage Tank	467	16-May-22 A	10-Jun-25		
Engineering Services	75	16-May-22 A	08-Dec-23		
D22GF170 2.2.G 2MG Elevated Storage Tank - Design Notice to Proceed	0	16-May-22 A			
D22GF180 2.2.G 2MG Elevated Storage Tank - EST Site Assessment / PER (30%)	0	16-May-22 A	09-Sep-22 A		
P22GP120 2.2.G.2 2MG Elevated Storage Tank - Progress Review/Workshop (30%)	0	12-Sep-22 A	16-Sep-22 A		
D22GF240 2.2.G 2MG Elevated Storage Tank - Final Site Selection	0	12-Sep-22 A	10-Feb-23 A		
D22GF210 2.2.G 2MG Elevated Storage Tank - Plans and Specifications - 60%	0	13-Feb-23 A	16-May-23 A		
P22GP150 2.2.G.2 2MG Elevated Storage Tank - Progress Review/Workshop (60%)	0	17-May-23 A	26-May-23 A		
D22GF230 2.2.G 2MG Elevated Storage Tank - Final Plans and Specifications - 100%	15	17-May-23 A	15-Sep-23		
P22GP140 2.2.G.2 2MG Elevated Storage Tank - Progress Review/Workshop/City Review (100%)	(%)	18-Sep-23	29-Sep-23		
P22GP160 2.2.G.2 2MG Elevated Storage Tank - Final Design Submittal for TCEQ Review	10	02-Oct-23	13-Oct-23		
P22GP170 2.2.G.2 2MG Elevated Storage Tank - TCEQ Review and Approval	40	16-Oct-23	08-Dec-23		
ıt Se	20	11-Dec-23	16-Feb-24		
P302P940 4.2.G 2MG Elevated Storage Tank - CM Procurement Services	20	11-Dec-23	16-Feb-24		
ervi	342	19-Feb-24	10-Jun-25	J [
	50	19-Feb-24	15-Mar-24		
	302	19-Feb-24	15-Apr-25		
C42GP570 4.2.G 2MG Elevated Storage Tank - Commissioning & Start-up	40	16-Apr-25	10-Jun-25		
C42GP590 4.2.G 2MG Elevated Storage Tank - Substantial Complete	0		10-Jun-25		•
Wastewater Treatment Plant Master Plan	9	21-Jun-22 A	04-Sep-23		
Feasibility Study D23IP180 2.3.1 WWTP Master Plan - NTP	ω ο	21-Jun-22 A 21-Jun-22 A	04-Sep-23		
	0	21-Jun-22 A	03-Oct-22 A		
D23IP110 2.3.I WWTP Master Plan - Flow/Quantity Projections	0	01-Aug-22 A	11-Nov-22 A		
P23IP515 2.3.I WWTP Master Plan - Progress Meeting Workshop - Study	0	21-Nov-22 A	25-Nov-22 A		
D23IP120 2.3.I WWTP Master Plan - Nonpotable/Potable Reuse Screening	0	15-Aug-22 A	03-Apr-23 A		
D23IP190 2.3.I WWTP Master Plan - Treatment Alternative Screening	0	14-Nov-22 A	28-Apr-23 A		
D23IP195 2.3.I WWTP Master Plan - Treatment Alternative Evaluation Report	0	06-Apr-23 A	07-Aug-23 A		
D23IP275 2.3.I WWTP Master Plan - CoS Approval of Final Report	9	08-Aug-23 A	04-Sep-23		
South Wastewater Treatment Plant - MBR	485	04-May-23 A	04-Jul-25		
Permit Acquisition Services DOSIDOSE 0.3.9.K Courth MAMTE MED TOEO Major Dosmit Amandmant Acquisition	45	07-Aug-23 A	27-Oct-23		
	G	A 02- 904-70	17 000 21		
D23IP265 2.3.K South WWTP - MBR - Design Consultant Notice to Proceed	0 0	08-May-23 A	17-Apr-24		
D23IP215 2.3.K South WWTP - MBR - Preliminary Engineering Report (PER) - 30%	0	15-May-23 A	04-Aug-23 A	1	
P23IP565 2.3.K South WWTP - MBR - Progress Meeting Workshop - 30%	0	21-Aug-23 A	25-Aug-23 A		
D23IP225 2.3.K South WWTP - MBR - Plans and Specifications - 60%	81	07-Aug-23 A	18-Dec-23		
P23IP575 2.3.K South WWTP - MBR - Progress Meeting Workshop - 60%	2	19-Dec-23	25-Dec-23		
D23IP235 2.3.K South WWTP - MBR - Final Plans and Specifications - 90%	55	30-Nov-23	14-Feb-24		
PAPE-DAWSON —— Remaining Level of Effort —— Actual Level of Effort —— Actual Level of Effort ——	Remaining Work Critical Remaining Work	▼ Summary	ary	Page 8 of 10	Chownen
Now John More			-		



CITY OF SHERMAN - PROGRAM MANAGEMENT

Program Management Services for Major Infrastructure Improvements Program Cost Summary

08/25/23

from **07/29/23**

Invoice Period

Appendix B - Program Cost Summary Report

CLASSIC TOWN. BROAD HORIZON.

Project Name	Contract Type	Progress % Complete	Contract Amount	Total Billed to Date	Previous Billed to Date	Current Billing	Remaining
Program Management		53.3%	\$ 9,204,126.00	\$ 3,974,391.87	\$ 3,661,197.84	\$ 313,194.03	\$ 5,229,734.13
Program Manager	LS & T&M	53.3%	\$ 9,204,126.00	\$ 3,974,391.87	\$ 3,661,197.84	\$ 313,194.03	\$ 5,229,734.13
Design Consultants		20.1%	\$ 42,762,440.00	\$ 17,390,599.07	\$ 16,266,428.45	\$ 1,124,170.62	\$ 25,371,840.93
Garver - 5 MGD WTP N UF/RO (Pkg 1)	LS & T&M	68.5%	\$ 1,858,919.00	\$ 1,273,810.30	\$ 1,252,377.94	\$ 21,432.36	\$ 585,108.70
Garver - 15 MGD WTP S UF/RO (Pkg 2)	LS & T&M	48.0%	\$ 14,318,009.00	\$ 6,876,065.30	\$ 6,357,913.13	\$ 518,152.17	\$ 7,441,943.70
PD - WTP Concentrate Discharge System	T&M	78.3%	\$ 1,043,780.00	\$ 817,583.75	\$ 811,102.75	\$ 6,481.00	\$ 226,196.25
FNI - 36" W Sherman Water Main	LS & T&M	69.4%	\$ 6,213,760.00	\$ 4,311,473.35	\$ 4,185,104.91	\$ 126,368.44	\$ 1,902,286.65
FNI - 2 MG Elevated Storage Tank	LS & T&M	40.0%	\$ 695,730.00	\$ 278,364.75	\$ 245,661.62	\$ 32,703.13	\$ 417,365.25
FNI - LTPS Expansion 2023	LS & T&M	32.0%	\$ 1,831,500.00	\$ 586,705.49	\$ 528,792.20	\$ 57,913.29	\$ 1,244,794.51
Plummer - WWTP Masterplan	LS & T&M	26.3%	\$ 2,073,011.00	\$ 1,167,866.56	\$ 1,154,912.41	\$ 12,954.15	\$ 905,144.44
Plummer - South WWTP - MBR	LS & T&M	9.3%	\$ 11,369,931.00	\$ 1,062,558.02	\$ 720,579.14	\$ 341,978.88	\$ 10,307,372.98
FNI - 100 MG Terminal Storage Reservoir	LS & T&M	2.6%	\$ 2,173,000.00	\$ 56,925.18	\$ 56,925.18	- \$	\$ 2,116,074.82
KH - Shepherd Dr Road	LS & T&M	80.2%	\$ 1,136,800.00	\$ 911,246.37	71.620,206 \$	\$ 6,187.20	\$ 225,553.63
Construction		19.3%	\$ 14,517,166.13	\$ 3,070,957.40	\$ 2,759,388.30	\$ 311,569.10	\$ 11,446,208.73
AW - 5 MGD WTP N UF/RO	Lumpsum	21.0%	\$ 11,221,699.13	\$ 2,356,022.00	\$ 2,101,682.80	\$ 254,339.20	\$ 8,865,677.13
H2O - 5 MGD WTP N UF/RO	Lumpsum	9.0%	\$ 2,428,869.00	\$ 217,886.90	\$ 217,886.90	- \$	\$ 2,210,982.10
Garney - 36" W Sherman WM Pre-Construction	Lumpsum	75.0%	\$ 588,598.00	\$ 441,448.50	\$ 412,018.60	\$ 29,429.90	\$ 147,149.50
Garney - Concentrate Discharge Pre-Construction	Lumpsum	20.0%	\$ 278,000.00	\$ 55,600.00	\$ 27,800.00	\$ 27,800.00	\$ 222,400.00
TOTAL			\$ 66,483,732.13	\$ 24,435,948.34	\$ 22,687,014.59	\$ 1,748,933.75	\$ 42,047,783.79









GREATER TEXOMA UTILITY AUTHORITY AGENDA COMMUNICATION

DATE: October 11, 2023

SUBJECT: AGENDA ITEM NO. VIII

PREPARED AND SUBMITTED BY: Paul M. Sigle, General Manager

CONSIDER AND ACT UPON KIEWIT WATER FACILITIES SOUTH COMPANY'S GUARANTEED MAXIMUM PRICE A, B, AND C FOR CITY OF SHERMAN'S SOUTH WASTEWATER TREATMENT PLANT – MBR PROJECT.

ISSUE

Consider and act upon Kiewit Water Facilities South Company's Guaranteed Maximum Price A, B, and C for City of Sherman's South Wastewater Treatment Plant – MBR Project.

BACKGROUND

Due to rapid industrial and municipal growth currently being experienced by the City of Sherman, the Wastewater Treatment Plant has to be expanded to meet expected flow and effluent characteristics. Given these characteristics, our engineers recommended a Membrane Biological Reactor (MBR) as the treatment method that will be required to meet the TCEQ requirements. In order to meet the abbreviated timeline, the method of construction delivery chosen was Construction Manager at Risk, or CMAR. Requests for Qualifications (RFQ's) were submitted with three construction firms submitting Statement of Qualifications (SOQ's). The contractor chosen to undertake the new Wastewater Treatment Plant – MBR was Kiewit Water Facilities South, Co.

The engineers have undertaken pre-selection of various long lead time equipment to save as much time as possible. Further, the contractor, now procured, is also undertaking pre-procurement to expedite time of delivery.

CONSIDERATIONS

The City of Sherman is requesting approval of allocated funds to utilize procurement of materials. All materials will be competitively sought by the required bidding process. This request will provide funds to undertake tasks associated with starting the massive project.

Based on the GMP proposals for GMP - A (General Conditions), GMP - B (Site Services), and GMP - C (Early Procurement, submitted on October 4, 2023, Kiewit has proposed to establish the progressive Guaranteed Maximum Price (GMP) increase from \$2,865,000.00 (Preconstruction Services and Procurement Services) for this first package per the terms of their CMAR contract of \$54,248,451.85. Kiewit is required to prepare this GMP for the Owner's review and acceptance. The total CMAR contract price will increase to be \$57,113,451.85. This project is funded through the 2023A Greater Texoma Utility Authority (GTUA) Open Market Bonds.

STAFF RECOMMENDATIONS

The Authority Staff recommends award the Guaranteed Maximum Price A, B, C, for Kiewit Water Facilities South Co for the South Wastewater Treatment Plant – MBR Project, increasing the contract amount to \$57,113,451.85. This item is contingent upon the City's approval.

ATTACHMENT

Engineer's Letter of Recommendation Kiewit Water Facilities South Co Proposal



October 11, 2023

GTUA/City of Sherman 220 W Mulberry St. P.O. Box 1106 Sherman, TX 75091 (903) 892-7208

Re: South Wastewater Treatment Plant - MBR Project

CMAR Contract Amendment 01

Dear GTUA/City of Sherman:

On October 9, 2023 a proposal was received by the Program Team from Kiewit Water Facilities South Co. for Progressive Guaranteed Maximum Price (GMP) Packages A, B, and C. Each package further described as:

GMP A – General Conditions Package. Includes items described in the construction contract as General Conditions related to CMAR staff, facilities, and equipment needed to complete the construction project that are not related to specific work packages. The CMAR cost request for this item of work is \$16,866,305.00.

GMP B – Site Services Package. Includes items of work that are intended to be dispersed among many project construction work packages and are not otherwise accounted for in General Conditions. The CMAR cost request for this item of work is \$18,399,017.31.

GMP C – Early Procurement Package. Includes funding authorization for the first three equipment procurement packages that were initiated prior to CMAR involvement in procurement. The CMAR estimated cost request for this item is \$10,000,000.00. The procurement packages include:

- Membrane Biological Reactor Equipment (Equipment Package 1). This equipment
 package was advertised by Plummer Associates and a best value selection was made
 to select Veolia Water Technologies & Solutions in the amount of \$3,987,000.00.
 Evaluation and Recommendation by engineer are attached.
- Electrical Equipment (Equipment Package 2). This equipment package was advertised by Plummer Associates with a recommendation to forward to the CMAR

City of Sherman South WWTP MBR Project COSK Amendment 01 Recommendation October 11, 2023 Page 2 of 2

to continue procurement. The package has an estimated value of approximately \$3,000,000.

Equipment Preselection Package 1 (Equipment Package 3). This equipment package
was advertised by Plummer Associates. Bids are to be received on 10/17/2023
followed by an evaluation and recommendation for award of contract. The
procurement will be completed by the CMAR. The estimated cost of this package is
approximately \$3,000,000.

The Proposal from Kiewit is attached to this letter with detailed backup of each of these cost requests and additional CMAR Fee and Contingency Fee summarized. The total project funding request is \$54,248,451.85. By authorizing this amendment, the following contract adjustments will be made:

Original Contract Value \$ 2,865,000.00

Previous Amendments \$ 0

Proposed Amendment 01 \$ 54,248,451.85

Revised Total Contract Value \$ 57,113,451.85

The Program Management Team recommends approval of Amendment 01 as has been presented.

Sincerely,

Toby Flinn, PE

Program Manager

Tobin C. Flin

Attachments:

- 1. Kiewit Proposal dated October 4, 2023
- 2. Plummer Recommendation Letter dated October 3, 2023





GMP Proposal Submissions for:

GMPA – General Conditions

GMPB - Site Services

GMPC - Early Procurement

Submitted: October 4, 2023

















October 4, 2023

Mr. Tom Pruitt, PE City of Sherman 220 W. Mulberry Street Sherman, TX 75090

RE: General Conditions, Site Services, and Early Procurement

Dear Mr. Pruitt:

Kiewit Water Facilities South Co. is hereby submitting a proposal for the initial work packages for the South Wastewater Treatment Plant – MBR Project. The packages are General Conditions, Site Services, and Early Procurement. In addition to establishing each package's value, this submission intends to establish the previously variable percentages for General Conditions and Contingency along with providing guidance and considerations related to their intended use.

Given the project's level of development, Kiewit is relying on the limited information provided to date combined with assumptions to formulate this proposal. As discussed at the interview, meetings and Partnering session, Kiewit has already begun advancing these scopes in good faith to support achievement of Substantial Completion by April 30, 2025. This proposal is based on the integrated schedule submitted September 29, 2023, titled City of Sherman WWTP – CMAR Baseline Schedule – Live.

General Conditions scope is based on a combination of Specification 01 01 01 Article 4 along with the other Division 1 specifications provided with the RFP, the Agreement, and the General Conditions. The pricing anticipates initial mobilization activities starting the week of October 16, 2023, Substantial Completion by April 30, 2025, and Final Completion by July 26, 2025. This scope is submitted as a lump sum to be billed against the proposed schedule of values. As indicated in the Organizational Chart, the staff required to supervise and administer the direct work packages will be included in the package they will support. Kiewit is proposing to establish a General Condition Fee of 12.2% (\$16,866,305.00 (General Conditions) / Cost of Work Plus Contingency (\$138,367,439.73)) that will be in addition to the established Lump Sum for GCs if the overall \$155 Million Budget is exceeded.

Site Services contains sitewide support not specifically defined as General Conditions or directly attributable to any other work package. Within this scope are the remainder of facilities, site establishment, material management, support staff, and other items necessary for organizing, supporting, and controlling the project. The services provided in this scope allow for increased availability, higher quality, minimized redundancy, and less congestion. This scope is submitted as a lump sum to be billed against the proposed schedule of values. If the overall project schedule increases, or the value exceeds \$155 Million, this package may require additional funding that would be negotiated via the change management process.

Early Procurement contains a projected value for the pre-selected equipment that will be transferred to Kiewit to contract and expedite. This package is expected to be billed as Time









and Materials. Any time spent supporting the negotiations, submittals, and supplier quality surveillance (aka site inspections) until it arrives on the project will also be billed against this value. Once the materials arrive onsite, they will be offloaded by Site Services and held until the Package assigned installation responsibility is ready to install. The subcontractor responsible for installation must participate in the Material Receiving Report (MRR) during offloading and perform care and maintenance from the time the equipment is received.

Contingency was proposed to fall within 3%-12% of the overall contract value, Kiewit is proposing to set this percentage at 9%, based on an expectation of reasonable negotiations for work package establishment, commitment to a functional and collaborative change management process, and an understanding that the entire team will support efficient work packaging, planning, submittals, execution, inspection, and startup. Kiewit reserves the right to discuss additional contingency if project and scope evolution are not advancing as currently envisioned.

Below is a table comparing the current proposed values to the overall project budget to help understand how this funding authorization fits within the overall projected construction budget. It is important to note that Kiewit has not yet had time to perform a cost model and design is not yet available, so all values listed in the table below for future packages are at a "Greensheet" or "Rough Order of Magnitude" (ROM) level based on experience with similar work.

GMP	GMP/Work Package Name		Previous		Current	Remaining	Forecast Value	Target
PCSA	Preconstruction Services	s	1,950,000.00	\$		\$ 7	\$ 1,950,000.00	9/18/23
PCSB	Procurement Services	s	915,000.00	s		\$ 9	\$ 915,000.00	9/18/23
	Preconstruction Lump Sum	\$	2,865,000.00	\$		\$	\$ 2,865,000.00	
GMPA	General Conditions	\$	÷	\$	16,866,305.00		\$ 16,866,305.00	10/16/23
GMPB	Site Services	\$		S	18,399,017.31	\$ -	\$ 18,399,017.31	10/16/23
GMPC	Early Procurement	\$	+	\$	10,000,000.00	\$ 	\$ 10,000,000.00	10/16/23
GMPD	Early Grading, Excavation, SOE, Dewatering	\$		\$		\$ 3,500,000.00	\$ 3,500,000.00	11/20/23
GMPE	Electrical Support, Finegrade, Backfill	\$	-	\$	8	\$ 5,000,000.00	\$ 5,000,000.00	12/18/23
GMPF	Underground Piping	\$		\$	1.4	\$ 11,000,000.00	\$ 11,000,000.00	12/18/23
GMPG	Concrete, Miscellaneous Metals	\$		\$		\$ 19,000,000.00	\$ 19,000,000.00	12/18/23
GMPH	Electrical, Instrumentation	\$	-	\$	4	\$ 17,000,000.00	\$ 17,000,000.00	12/18/23
GMPI	Process Mechanical	\$	6	\$		\$ 13,000,000.00	\$ 13,000,000.00	1/15/24
GMPJ	Building Trades	s		\$		\$ 9,000,000.00	\$ 9,000,000.00	1/15/24
GMPK	Site Finishes and Startup Support	S		S	+	\$ 4,177,282.95	\$ 4,177,282.95	5/20/24
	Cost of Work	S		\$	45,265,322.31	\$ 81,677,282.95	\$ 126,942,605.26	
9%	Contingency			\$	4,073,879.01	\$ 7,350,955.47	\$ 11,424,834.47	
	Cost of Work plus Contingency			\$	49,339,201.32	\$ 89,028,238.42	\$ 138,367,439.73	
9.95%	CMAR Fee	\$	*	\$	4,909,250.53	\$ 8,858,309.72	\$ 13,767,560.25	
+	Construction Total	\$		\$	54,248,451.85	\$ 97,886,548.14	\$ 152,134,999.99	
	Preconstruction Plus Construction Total	\$	2,865,000.00	\$	54,248,451.85	\$ 97,886,548.14	\$ 154,999,999.99	

Respectfully,

Colin Bunker

Kiewit Water Facilities South Co.

Sponsor









Table Of Contents

- 1) Executive Summary
- 2) Drawings, Specifications, and other Contract Documents
- 3) Variations, Clarifications, Assumptions, Exclusions
- 4) Pricing Summary
 - a. General Conditions
 - b. Site Services
 - c. Early Procurement
 - d. Contingency, Allowance, and Unit Prices
 - e. Schedule of Values
- 5) Progress Schedule









South Wastewater Treatment Plant - MBR Project

TO: City of Sherman/GTUA/Pape-Dawson DATE: 10/4/2023

FROM: Kiewit

SUBJECT: Executive Summary - General Conditions, Site Services, and Early Procurement

COPIES: Transmitted Electronically via Email

GMP Overview

The following proposal includes General Conditions, Site Services, and Early Procurement. Each Work Package is comprised of various Bid Packages that are described in Tables 1 and 2.

Table 1: Work Packages

Work Package ID	Work Package Name	Associated Bid Packages
GMPA	General Conditions	BP02-001, BP03-001, 003, 011 to 017, 029-032, 039-045
GMPB	Site Services	BP03-All (Except those listed above)
GMPC	Early Procurement	BP01-All
GMPD	Early Grading, Excavation, SOE, Dewatering	TBD
GMPE	Electrical Support, Finegrade, Backfill	TBD
GMPF	Underground Piping	TBD
GMPG	Concrete, Miscellaneous Metals	TBD
GMPH	Electrical, Instrumentation	TBD
GMPI	Process Mechanical	TBD
GMPJ	Building Trades	TBD
GMPK	Site Finishes and Startup Support	TBD

General Conditions

General Conditions were described to varying extents in the RFP Division 1 Specifications, the Agreement, and the General Conditions.

- 1) Specification 01 01 01 CMAR Services Article 4 specified that the following be provided:
 - a. Administration and Management Services Generally defines a full-time staff that manages construction and all other duties and obligations that would be customary for a General Contractor. Specifications 01 31 00, 01 31 00, 00 31 13, 01 31 24, and 01 32 34 further describe requirements relating to Administration and Management. Some of the requirements contained in those specifications have been classified as Site Services as seen by bid package descriptions.
 - b. Time Management Services Generally requires maintaining a master schedule, reviewing schedules from Subcontractors and Suppliers, and managing Subcontractors and Suppliers to maintain adequate

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- workforce and equipment to complete the Project within the Contract Time. Specification 01 32 16 further describes requirements related to Construction Progress Schedules.
- c. Cost Management Services Generally requires cash flow, earned value, contingency tracking, and total construction cost forecasting. Specification 01 29 00 further describes requirements related to Payment Procedures.
- d. Risk Management Services Manage implementation of Risk Management Plan.
- e. Starting and Adjusting Services Implement the Starting and Adjusting Plan.
- f. Warranty Correction Work Correct defects in the Work during the warranty period.

2) Agreement

- a. The agreement generally provides guidance as it relates to executing the tasks described above.
- 3) Standard General Conditions of the Construction Contract Article 11.01.A.1.c 1-14.
 - a. Labor and Management costs not directly tied to direct performance of the work (1), including all transportation, travel, and subsistence (2).
 - b. Bonds and Insurance (3), Taxes (6), Deposits Lost (8), Capital Expenses (13)
 - c. Deductible Cost for Losses and Damage (9)
 - d. Offices (4), Minor Expenses (11), Office Expenses (12)
 - e. Permit Costs for Site Establishment (7)

Site Services

1) Site Services supply items that are required by the entire project, but are more efficiently consolidated as they allow for increased availability, higher quality, minimization of redundancy, and lessen congestion. Rather than describe each item, it is best to reference Table 2: Bid Packages for all scopes not defined previously as Site Services or Early Procurement.

Table 2: Bid Packages

Bid Package ID	Bid Package Name
BP01-001	Early Procurement
BP02-001	General Conditions Staff
BP03-001	Site Service Support Staff
BP03-002	Site Service Equipment
BP03-003	Temporary Structures and Construction Devices
BP03-004	Supplemental Engineering (BIM Coordination)
BP03-005	Fencing
BP03-006	Turnstiles (NOT USED)
BP03-007	Security Service
BP03-008	Camera, Site Security Equipment
BP03-009	Storm Water Management (includes pumps, hoses, perimeter control)
BP03-010	Site Development and Maintenance (Roads, laydown, site prep, drainage)
BP03-011	Office Trailer Setup
BP03-012	Office Trailer Rent

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BP03-013	Printers
BP03-014	IT (Servers and equipment including monitors)
BP03-015	Door Security and Badging (NOT USED)
BP03-016	AV (Projectors, TVs, and conference equipment)
BP03-017	Furniture
BP03-018	Connexes
BP03-019	Maintenance Facilities
BP03-020	Maintenance Labor
BP03-021	Fueling Facility
BP03-022	Maintenance Equipment
BP03-023	Maintenance Environmental Services (Fluid recycling and/or disposal from Vehicles)
BP03-024	Crane Mats and Rigging
BP03-025	Warehouse (Incl. HVAC, Roll up Doors, Etc.)
BP03-026	Warehouse Software
BP03-027	Warehouse Shelving (furnishing)
BP03-028	Warehouse and Material Management Craft Support
BP03-029	Utility Installation (internet, water, electric, sewer)
BP03-030	Utility Costs Ongoing (internet, water, electric, sewer)
BP03-031	UAV Topography and Photos (Propellor)
BP03-032	Survey Supplies
BP03-033	Temporary Electrical - Site Support (Gear, Distribution, Lighting, Supplies, Labor, Equipment)
BP03-034	Craft Support - Water and Ice
BP03-035	Craft Support - Restrooms
BP03-036	Craft Support - Waste Management
BP03-037	Craft Support - Street Sweeping
BP03-038	Craft Support - Access and Road Maintenance (includes materials)
BP03-039	Quality Testing (Soil, Concrete, NDT, etc.)
BP03-040	Quality Inspection Services
BP03-041	Quality Supplies and Consumables
BP03-042	Supplier Quality Surveillance
BP03-043	Quality Testing Facilities
BP03-044	Office Supplies and Consumables
BP03-045	Office Cleaning
BP03-046	Pest Control
BP03-047	Project Signage
BP03-048	Site Trucking
BP03-049	Traffic Control, Signage, Barricades, Ropes, Etc.
BP03-050	Decking

The Site Services scope is anticipated to run from October 2023 through July of 2025 which should coincide with

Final Completion. The services listed and provided are critical to the CMAR's ability to manage the project per the Contract documents, procedural requirements as outlined in the project management documents, and to satisfy best management practices. Any variation in these services could affect the CMARs ability to manage to the contract documents and best management practices standards.

The overall scope of work is to provide temporary facilities and controls to allow on site management of the construction of the project. This includes items such as, but not limited to; labor to establish the site, grading for temporary construction trailers and maintenance facilities, infrastructure to support temporary facilities and labor forces, site photography, implementation of the Storm Water Pollution Prevention Plan (SWPPP), maintenance of the SWPPP, security, site fencing, IT, temporary power and utility infrastructure costs, storm water management and best management practice installations, third party quality control testing, and labor to maintain the project site over the course of construction execution. Many of these costs are based on unit pricing, lump sum, and time and materials for supervision and craft support.

The CMAR solicited, coordinated, and executed this GMP development per the CMAR Agreement and specifications. The speed of project execution has limited our ability to collaborate in depth but there has been discussion and review of certain scopes during task force meetings. Potential subcontractors and vendors have been identified by the CMAR and contacted for pricing, where timing allowed. Other scope values have been based on similar pricing from other projects or previous experience. Depending on the criticality of the scope, some were evaluated using qualitative as well as quantitative results.

Early Procurement

- 1) Completed Equipment Packages GMP Proposal to be provided once selection and pricing are finalized for both packages.
 - a. Equipment Package 1 Membrane Biological Reactor
 - i. This equipment package was advertised by Plummer Associates on behalf of the Owner in August 2023. Proposals were publicly opened on 9/13/2023. Plummer Associates in cooperation with the Owner has evaluated and recommended the contract be awarded to Veolia Water Technologies & Solutions in the amount of \$3,987,000.00.
 - b. Equipment Package 2 Electrical Equipment Package Number 1
 - i. This equipment package was advertised by Plummer Associates on behalf of the Owner in August 2023 and may be referred to as Electrical Equipment Package Number 1. Proposals were publicly opened on 9/26/2023. Plummer Associates in cooperation with the Owner has evaluated and recommended the contract be awarded to TBD in the amount of TBD.
- 2) Incomplete Equipment Packages **GMP Proposal to be provided once the selection and pricing are** finalized for this package.
 - a. Equipment Package 3 Equipment Preselection Package 1
 - i. This equipment package was advertised by Plummer Associates on behalf of the Owner in September 2023. The procurement is open at this time. Bids are to be received on 10/17/2023. The remainder of this equipment procurement is to be completed by Kiewit within the preconstruction contract item for Procurement Services. Bids are to be opened and evaluated by Kiewit and the Owner, after which this package will be included as a Progressive GMP Amendment to the construction contract.

Contract and Payment Mechanism

It is expected that the components of this work package approval will be invoiced as stated below for each BP:

1. General Conditions – Will be invoiced a Lump Sum per agreed schedule of values.

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- 2. Site Services Will be invoiced as a Lump Sum per agreed schedule of values.
- 3. Early Procurement Will be invoiced as Time and Materials.
- 4. Contingency Contingency will be allocated to Cost of Work according to the change management process then invoiced accordingly, generally as a lump sum.
- 5. Construction Fee Insurance will be invoiced at the percentages defined in the Agreement.

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South Wastewater Treatment Plant - MBR Project

TO: City of Sherman/GTUA/Pape-Dawson DATE: 10/4/2023

FROM: Kiewit

SUBJECT: Drawings, Specifications, and other Contract Documents

COPIES: Transmitted Electronically via Email

Plans and Specifications

The following listing of plans, specifications, and documents were used in the development of self-performed or vendor bid packages for this GMP.

Plans and Sketches

- G COSK-PLA-TDD0001 3D SITE PLAN CONCEPT_2023-08-04
- COSK-PLA-TDD0002 G-001_SITE PLAN
- COSK-PLA-TDD0003 46 53 49.20 Membrane Biological Reactors Flat Plate Type_2023-08-04
- COSK-PLA-TDD0004 G-002_PROCESS FLOW
- COSK-PLA-TDD0005 G-003_HYDRAULIC PROFILE
- COSK-PLA-TDD0006 2023-08-04_Specs_TOC, DIV 00, &46 53 49.20
- COSK-PLA-TDD0007 2023-08-04_MBR (FLAT PLATE TYPE) P&IDs
- COSK-PLA-TDD0008 2023-08-04_MBR (Flat Plate) Drawings
- COSK-PLA-TDD0009 Preliminary Equipment & Design Criteria Summary_2023-08-04
- COSK-PLA-TDD0010 Yard Piping Schedule List
- COSK-PLA-TDD0011 ELECTRICAL ONE-LINES
- COSK-PLA-TDD0012 2023 0804 COARSE SCREENING & LS P&IDs
- COSK-PLA-TDD0013 2023 0804 I-201 FINE SCREENING P&ID-Layout1
- G COSK-PLA-TDD0014 2023 0804 X-XXX_EQ BASIN-P&ID
- COSK-PLA-TDD0015 2023 0804 X-XXX_FILTERS P&ID-Layout1
- COSK-PLA-TDD0016 M-330 EQ TANK PLANS AND SECTIONS
- COSK-PLA-TDD0017 M-332 DOME WALL AND FOOTING
- G COSK-PLA-TDD0018 M-333 TANK PIPING
- COSK-PLA-TDD0019 M-334 TANK LADDERS AND HATCHES
- COSK-PLA-TDD0020 M-335 MISCELLANOUS APPURTENANCE
- Sherman_MBR plant only_20230810_Buildout_v3
- Sherman_MBR plant only_20230810_Phase_1A_v3
- PDR_Sherman South WWTP-MBR_Final_v1combined_seals

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PLUMMER











Item No.	Bid Package	Item Description	Date Added to Log	Assumption, Clarification, Exception, Risk Item
39	BP03-008	Camera, Site Security Equipment	10/2/2023	Quote includes cameras and alarm systems broken down by each unit plex
40	BP03-008	Camera, Site Security Equipment	10/2/2023	CMAR has not included movement of any cameras or poles
				Estimated pricing is based off a historical ROUGH average price
41	BP03-039	Quality Testing (Soil, Concrete, NDT, etc.)	10/2/2023	of 2% total project value
42	BP03-039	Quality Testing (Soil, Concrete, NDT, etc.)	10/2/2023	Some Testing will be self performed to control schedule and cost Multiple companies have been contacted and are prepared to
43	BP03-039	Quality Testing (Soil, Concrete, NDT, etc.)	10/2/2023	quote once recieving an idea of services needed
	DD00 047	Davis at Ciana and	10/0/000	Pricing is based soley off historical average PO's for Blue Sky
44	BP03-047	Project Signage	10/2/2023	. ,
45	BP03-047	Project Signage	10/2/2023	Plug price assumes 4 seperate PO's @ \$2500 EA
46	BP03-005	Fencing (temp and permanent)	10/2/2023	Assumes permanent fencing will be 6' barbed wire, 2x 20' wide double swing gates, 4x 4' pedestrian gates, 1 additional mobilization
47	BP03-005	Fencing (temp and permanent)		Permanent pricing was derived from Samsung Solar which was 19x the amount of fencing that Sherman requires, Assumes a \$5,000 adder will cover the increased cost from a lower qty.
48	BP03-005	Fencing (temp and permanent)	10/2/2023	Assumes 6' temporary chain link fence
			<u> </u>	Estimated 3 connexes using Blue Sky Pre FFU price per 1.
				Adder assumes 10% bump in price from 2022 price used in Blue
49	BP03-018	Connexes	10/2/2023	Sky doc.
				Includes 2 years of MVP, 2 years of Mobile CMMS, SAP, 1
50	BP03-026	Warehouse Software		printer and labels
51	BP03-027	Warehouse Shelving	10/2/2023	Assumes add \$2,500 covers freight, excludes tax.
52	BP03-025	Warehouse (incl HVAC, Roll Up Doors, etc.)	10/2/2023	Assumes 6,048 sqft, 3 steel doors, 2 OH doors. Excludes Tax, security, and freight costs. Assumes a 10% increase from Blue Sky's Austin 2022 pricing to Dallas area 2023 pricing. Standard Shift Arrangements 10 Hours per Shift, 1 Shift per
53	BP03-002	Cost Basis		Day, 5 Days per Week.
54	BP03-002	Cost Basis	10/2/2023	Fuel Rates per AAA Month Ago Average.
55	BP03-040	Inspection Services	10/3/2023	Special Inspections as defined by the International Building Code is exlcuded.
50	BD03 000	CWDDD	40/2/2022	Carried cost to Design and procure SWPPP for the South Plant
56 57	BP03-009 BP03-009	SWPPP SWPPP		Only based on plant layout provided
37	DF03-009	SWFFF	10/3/2023	Maintenance of SWPPP will be performed by the CMAR No warranties beyond 1 year. Additional warranties can be
58	BP02-001	General Conditions	10/3/2023	added in future packages No scaffolding included in GCs and Site Services. Cost will be
59	BP03-003	TSCD	10/3/2023	included in future packages if scaffolding is utilized
60	BP03-024	Crane Mats and Rigging	10/3/2023	Carried the cost to establish the crane pads once. Any future costs will be carried in future packages
61	BP03-002	Site Service Equipment (Including Cranes)	10/3/2023	Klein tank assumed onsite from Nov 23 - July 25 = 90 weeks. Captured for full duration of project
62	BP02-001	General Conditions	10/3/2023	Electrical, Concrete, and other discipline Superintendents are not included in GCs. Staff like this will be captured in future bid packages Construction Engineering personnel are included in the GCs and
				Site Services bid packages. Additional Construction Engineering
63	BP03-001	Support Staff	10/3/2023	staff will be added in future bid packages.
				We have carried a Startup Manager to shape the plans.
				Additional Support Staff will be added in future bid packages to
64	BP03-001	Support Staff	10/3/2023	support startup
		Remove Temp Facilities, Demobilization,		
		Final Clean, Site Roads, Restoration,		Demobe has been defered. Will be included in future bid
65	BP10-002	Seeding		packages for startup/demobe.
66	BP03-033	Temporary Electrical	10/3/2023	Exclude power for startup. Will be carried in future packages
67	BP03-030	Utility Costs Ongoing (internet, water, electric, sewer)	10/3/2023	Exclude water for startup. Will be carried in future packages
		Utility Installation (internet, water, electric,		Assuming Engineer and Owner can use our internet when
68	BP03-029	sewer)	10/3/2023	initially installed
69	BP03-001	Support Staff		Assuming 228 weeks of craft labor tax equalization @ 50DMH/Wk = 11,400 DMH @ \$10/DMH = \$114,000
70	BP03-001	Support Staff		Assume Safety Supplies @ \$1.83/DMH (per Blue Sky)
71	BP03-034	Craft Support - Water and Ice		Water and Ice has been priced in this bid package for GCs and Site Services. Additional Water and Ice cost will be captured in future bid packages for direct work associated with those packages
72	BP03-036	Craft Support - Waste Management	10/3/2023	Trash Removal has been priced in this bid package for GCs and Site Services. Additional Trash Removal will be captured in future bid packages for direct work associated with those packages
			. 5, 5, 2020	ı.







		CLASSIC TOWN SROAD HORSON	Data Addad	
Item No.	Bid Package	Item Description	Date Added to Log	Assumption, Clarification, Exception, Risk Item
73	BP03-035	Craft Support - Restrooms	10/3/2023	Chemical Toilets has been priced in this bid package for GCs and Site Services. Additional Chemical Toilets will be captured in future bid packages for direct work associated with those packages
	PP00 004	0 10 5	4.0/0/0000	Drug Testing has been priced in this bid package for GCs and Site Services. Additional Drug Testing will be captured in future
74	BP03-001	Support Staff	10/3/2023	bid packages for direct work associated with those packages
75	BP03-002	Site Service Equipment (Including Cranes)	10/3/2023	Fuel escalation has been excluded from GCs and Site Services Assume jobsite snow removal craft labor - 4 months a year @ 80 hr/mo x 2 winters = 640 hrs @ full wage with sub. Labor
76	BP03-001	Support Staff		Foreman and Journeyman
77	BP03-001	Support Staff	10/3/2023	Assume site services craft working 60 hr/wk
78	BP03-001	Support Staff	10/3/2023	Include Electrician Move Bonus and Core Travel Incentive in the Site Services package. (Exclude from the electrical package)
79	BP01-001	Early Procurement A	10/3/2023	Include \$10m in process mechanical in Bid Package for GCs, Site Services, and Early Procurement. \$4m for MBR, \$6m for other
80	BP02-001	General Conditions	10/3/2023	Assume 9% Contigency Funds
01	BP03-016	AV (Projectors, TVs, and Conference	10/2/2022	Quote assumes 5 conference room tvs with wall mounts and
81	BP03-016	Equipment)	10/3/2023	HDMI cords Without having specifications for testing and inspections, we
82	BP03-040	Quality Inspection Services		have assumed \$1m for this scope based on historical prices
83	BP02-001	General Conditions	10/3/2023	Exclusion: any deductibles will be billed against contigency Warranty corrections are not covered by work packages. They
84	BP02-001	General Conditions	10/3/2023	will be covered by contingency
85	BP03-010	Site Development (Roads, laydown, site prep, drainage)		All base rock, lime slurry, hourly trucking and geogrid for roads/laydown/parking areas is based on quoted prices. All other material prices are based on historical prices.
- 03	BI 00-010	uranage)	10/4/2020	Only routine housekeeping sweeping has been included. Any additional sweeping necessary to comply with permit requirements or specifically needed to support the direct performance of the work, will be added to the applicable GMP
86	BP03-002	Site Services Equipment (Including Cranes)	10/4/2023	and bid package
87	BP03-010	Site Development (Roads, laydown, site prep, drainage)	10/4/2023	CMAR has assumed stockpiling of materials in areas indicated.
88	BP03-010	Site Development (Roads, laydown, site prep, drainage)		CMAR has assumed unrestricted access to the work areas.
89	BP03-010	Site Development (Roads, laydown, site prep, drainage)	10/4/2023	
90	BP03-002	Site Services Equipment (Including Cranes)	10/4/2023	The list of equipment provided is not to be deemed whole and inclusive of all/every piece of equipment that may be necessary to execute or support the work. Any special labor required to re-equip or modify cranes beyond
91	BP03-002	Site Services Equipment (Including Cranes)	10/4/2023	their standard configuration to support means and methods of construction, has not been included.
92	BP03-002	Site Services Equipment (Including Cranes)	10/4/2023	Equipment rates are based on Equipment Watch Blue Book rates for the assumed equipment model and year
93	BP03-044	Office Supplies and Consumables Temporary Electrical - Site Support (Gear,	10/4/2023	Pricing based on historical past cost
94	BP03-033	Distribution, Lighting (Interior and Parking), Supplies, Labor, Equipment)	10/4/2023	CMAR will procure and pay for the temporary electrical permit(s)
95	BP03-033	Temporary Electrical - Site Support (Gear, Distribution, Lighting (Interior and Parking), Supplies, Labor, Equipment)	10/4/2023	Trenching is included for installaiton of UG runs. Rock excavation, if any, is not included
		Temporary Electrical - Site Support (Gear,		Temp electrical installation will not be in compliance with specifications. Additionally, any temporary MV distribution equipment, transformers, switchboards, and general power
96	BP03-033	Distribution, Lighting (Interior and Parking), Supplies, Labor, Equipment)	10/4/2023	equipment will be manufacturer standard for the temporary application and will not meet equipment specification standards.
97	BP03-033	Temporary Electrical - Site Support (Gear, Distribution, Lighting (Interior and Parking), Supplies, Labor, Equipment)		Temporary electrical costs for distribution of power across project site for construction are included in this bid package. Facility lighting or any specialty power required are not included.
98	BP03-033	Temporary Electrical - Site Support (Gear, Distribution, Lighting (Interior and Parking), Supplies, Labor, Equipment)		Assumed "MVSG" arc resistant switchgear is NOT required for Temporary gear.
99	BP03-033	Temporary Electrical - Site Support (Gear, Distribution, Lighting (Interior and Parking), Supplies, Labor, Equipment)	10/4/2023	Assumed fused switches are acceptable for the medium voltage distribution in lieu of breakers for temporary gear.
100	BP03-033	Temporary Electrical - Site Support (Gear, Distribution, Lighting (Interior and Parking), Supplies, Labor, Equipment)	10/4/2023	Assumed aluminum power cables is acceptable for temporary
100	2. 00 000	ouppiios, Labor, Equipment)	101712023	3º41.









Item No.	Bid Package	Item Description	Date Added to Log	Assumption, Clarification, Exception, Risk Item
101	BP03-033	Temporary Electrical - Site Support (Gear, Distribution, Lighting (Interior and Parking), Supplies, Labor, Equipment)	10/4/2023	Lighting at craft and staff parking lots warehouse, maintenance shop, and parking lot entrance road only.
102	BP03-033	Temporary Electrical - Site Support (Gear, Distribution, Lighting (Interior and Parking), Supplies, Labor, Equipment)	10/4/2023	Warehouse is turnkey and will require only single connection.
103	BP03-033	Temporary Electrical - Site Support (Gear, Distribution, Lighting (Interior and Parking), Supplies, Labor, Equipment)	10/4/2023	No concrete encasement of conduit is included.
104	BP03-033	Temporary Electrical - Site Support (Gear, Distribution, Lighting (Interior and Parking), Supplies, Labor, Equipment)	10/4/2023	Removal of temporary power has been included.
105	BP03-033	Temporary Electrical - Site Support (Gear, Distribution, Lighting (Interior and Parking), Supplies, Labor, Equipment) Temporary Electrical - Site Support (Gear,	10/4/2023	CMAR included generators to power the early trailers for the period before temporary power is installed and operational.
106	BP03-033	Distribution, Lighting (Interior and Parking), Supplies, Labor, Equipment) Temporary Electrical - Site Support (Gear,	10/4/2023	No salvage value is included for electrical equipment or materials.
107	BP03-033	Distribution, Lighting (Interior and Parking), Supplies, Labor, Equipment)	10/4/2023	The CMAR has assumed no conflicts for utilities existing, or any other projects, that do not match plan. Cost includes installation of SWPPP items based on preliminary
108	BP03-009	SWPPP	10/4/2023	design. Finalized design and cost to be included in later packages.
109	BP03-010	Site Development (Roads, laydown, site prep, drainage) Site Development (Roads, laydown, site prep,		The CMAR has assumed and priced a TXDOT aggregate base course for use in all temp roadways and laydown areas. CMAR has assumed no stockpile seeding. Any stockpile seeding
110	BP03-010 BP03-010	drainage) Site Development (Roads, laydown, site prep, drainage)		cost will be included in future packages. No stockpile management has been included.
112	BP03-010	Site Development (Roads, laydown, site prep, drainage)		The City of Sherman Standard Specifications and Details were used to develop the cost fot the temporary water and sewer lines for the trailer connections.
113	BP03-010	Temp Water and Temp Sewer		Assumed 4' of cover for all temporary utilitity lines which includes temp water, temp sewer and temp electric. Trenching is included for installaiton of UG runs. Rock
114	BP03-010	Temp Water and Temp Sewer	10/4/2023	excavation, if any, is not included Main sewer is 6" PVC SDR 35 with 4" branch with a tie-in to a
115	BP03-010	Temp Water and Temp Sewer		12" main line Potable water is a 4" C900 asuumed by spec with a 2" service
116 117	BP03-010 BP03-010	Temp Water and Temp Sewer Temp Water and Temp Sewer	10/4/2023	branches and poly wrap A backflow preventor is included in the cost
118 119 120	BP03-028 BP03-028 BP03-028	Warehouse and Material Craft Support Warehouse and Material Craft Support Warehouse and Material Craft Support	10/4/2023	transportation & logistics craft support. coordinator for 74 man weeks, a material clerk for 20 man Excludes additional time if project dates extend out.
121 122	BP03-001 BP03-044	Procurement Support Office Supplies and Consumables	10/4/2023	33 man weeks of procurement lead support for execution, 87 Man-Weeks for construction staff until April 2025









Description	Quantity	Unit Of Measure	Total Price
General Conditions			\$16,866,305.00
Bonds & Permits			
Payment and Performance Bond (\$4.00/\$1,000 for \$155M)	155,000.00	K\$	\$620,000.00
Builders' Risk Insurance (\$0.1618 per \$100 for \$155M)	155,000.00	K\$	\$403,354.00
Permits (includes SWPPP & SPCC Design)	45.00	K\$	\$45,000.00
Staff			
Sponsor	82.00	MWk	\$820,000.00
Project Manager	85.00	MWk	\$765,000.00
Construction Manager	85.00	MWk	\$765,000.00
Project Engineer / Scheduler / Commercial Manager	240.00	MWk	\$1,680,000.00
Document Control	86.00	MWk	\$516,000.00
Design Manager	43.00	MWk	\$550,400.00
Design Engineers	97.00	MWk	\$970,000.00
Startup & Performance Testing Manager	69.00	MWk	\$621,000.00
Safety Manager	112.00	MWk	\$672,000.00
Safety Engineer	67.00	MWk	\$335,000.00
Quality Managers	171.00	MWk	\$1,026,000.00
Quality Engineers	230.00	MWk	\$1,150,000.00
Survey Manager	86.00	MWk	\$688,000.00
Survey Engineers	129.00	MWk	\$774,000.00
Senior Business Manager	78.00	MWk	\$468,000.00
Business Manager	61.00	MWk	\$366,000.00
Administrative - Certified Payroll	69.00	MWk	\$276,000.00
Clerks	141.00	MWk	\$564,000.00
Interns	65.00	MWk	\$260,000.00
Quality Inspection / Testing / Consumables			
Quality Supplies & Consumables	401.00	MWk	\$96,240.00
Third Party Inspection and Testing- SQS Plant Visits	3.00	Ea	\$15,000.00
Third Party Other Inspections and Tests	414.00	MWk	\$1,000,000.00
Survey Equipment / Supplies			
Survey Equipment and Supplies	215.00	MWk	\$107,500.00
Outside Survey	9.00	Wk	\$75,000.00
Other Survey Items - Initial Equipment Purchase & Drone	78.00	Wk	\$179,000.00
Office Trailers			
Office Trailers Rental Cost	60.00	Мо	\$316,892.00
Mobe / Skirting Office Trailers	1.00	PLS	\$212,319.00
Office Utilities Including Power, Water and Gas Costs	60.00	Мо	\$41,000.00
Job Office Setup	10,800.00	SF	\$60,264.00
Decking Trailers	1,000.00	SF	\$150,000.00









Description	Quantity	Unit Of Measure	Total Price
Owner Trailer Three-Plex (36x60)	20.00	Мо	\$60,910.00
Owner Trailer Mobe / Setup & Skirting	1.00	PLS	\$42,926.00
Owner Trailer Equipment/Furniture	1.00	Ea	\$10,000.00
Owner Trailer / Supplies / Cleaning	20.00	Мо	\$14,500.00
Partnering			
Partnering and Teambuilding	16.00	Мо	\$150,000.00
Site Services			\$18,399,017.31
Staff			
Site Services Superintendent	95.00	MWk	\$855,000.00
Equipment Superintendent	94.00	MWk	\$658,000.00
Procurement Manager / Procurement	47.00	MWk	\$376,000.00
Warehouseman Manager	60.00	MWk	\$98,330.40
Warehouse Craft Person	60.00	MWk	\$86,112.48
Equipment Mobilization			
Equipment Mobilization	28.00	Ea	\$179,648.00
Equipment Moves	14.00	Ea	\$89,824.00
Equipment Setup & Dismantle	2.80	Ea	\$40,418.00
Klein Tank Setup	1.00	Ea	\$3,512.75
Temporary Laydown			
Laydown	72,734.00	SY	\$3,480,741.61
Temporary Barrier - Pedestrian Walkway			
Temporary Barrier - Load / Haul / Set K Rail	920.00	LF	\$27,240.79
PM - K Rail Pedestrian Walkway (20' Sticks)	920.00	LF	\$47,803.20
Security Setup			
Security Setup (Cameras, Motion Detectors etc.)	1.00	PLS	\$25,000.00
Temporary Fencing			
Temporary Fencing and Gates	2,996.00	LF	\$44,940.00
Temporary Electrical Power			
Temporary Electrical - Installation and Removal	1.00	PLS	\$712,928.00
Temporary Electrical Field- Power Consumption Cost	1.00	PLS	\$218,000.00
Temp Utilities- Sewer & Water			
Sanitary Sewer & Potable Water Line	3,724.00	LF	\$420,500.54
Temp Utilities - Purchase Construction Water	8,329.00	MGal	\$45,080.71
Temp Utilities - Water Meter	1.00	Each	\$2,165.00
Warehouse Setup			
Warehouse Slab & Installation	1.00	PLS	\$174,200.00
Maintenance Facility			
Maintenance Facility Slab & Installation	1.00	PLS	\$280,500.00
Maintenance Facility Rental	16.00	Мо	\$236,944.00









Description	Quantity	Unit Of Measure	Total Price
Crane Pads & Mats			
Crane Pads & Mats	1.00	PLS	\$74,865.98
Site Services			
Snow Removal	35.00	Wk	\$38,595.90
Site Services - Construction Equipment			
Light Plants (4 ea)	52.00	Wk	\$98,280.00
Klein Tank	90.00	Wk	\$74,880.00
Road Broom	52.00	Wk	\$213,241.60
Loader	52.00	Wk	\$190,444.80
Skid Steer Tracked	52.00	Wk	\$152,193.60
10K Forklift	52.00	Wk	\$114,899.20
Motor Grader 140M	52.00	Wk	\$251,908.80
84" Roller	12.00	Wk	\$85,612.80
200 Ton Crawler Crane (3 ea)	163.00	Wk	\$4,088,365.94
75 Ton RT Crane (2 ea)	142.00	Wk	\$1,392,054.38
4 MG Water Truck	90.00	Wk	\$429,192.00
Trailer/Float	90.00	Wk	\$40,680.00
Truck for Trailer	90.00	Wk	\$266,904.00
Site Services - Craft Labor			
Craft Labor	577.00	Wk	\$1,514,260.21
Craft Labor Travel Incentive	46,000.00	МН	\$89,000.00
Safety Supplies	46,000.00	МН	\$85,172.88
Employee Performance Recognition	46,000.00	МН	\$23,271.28
Craft Labor Site Services - Water & Ice Distribution	46,000.00	МН	\$27,925.54
Craft Labor Site Services - Trash Removal	46,000.00	МН	\$30,252.66
Craft Labor Site Services - Chemical Toilets	46,000.00	МН	\$32,579.79
Craft Labor Site Services - Drug Testing	46,000.00	МН	\$2,327.13
Craft Labor Site Services - Other	46,000.00	МН	\$0.00
Craft Labor Site Services - Saturdays	108.88	K\$	\$110,230.39
Warehouse Forklift			
Forklift Site Services: Warehouse	52.00	Wk	\$225,804.80
Temp Environmental Controls			
Temp Site Enviro Controls - Protective Fencing (Silt Fence)	3,228.00	LF	\$12,957.51
Temp Site Enviro Controls - Truck Wheel Wash	1.00	Ea	\$1,605.64
Temp Site Enviro Controls - Rock Check Dams	103.00	Ea	\$41,345.21
Temp Site Enviro Controls - Construction Entrance	356.00	SY	\$7,430.90
Maintain Temporary Site Environmental Controls	90.00	Wk	\$85,830.71
STS - Initial Environmental Material	1.00	PLS	\$72,137.80
STS - Maintain Environmental Material (25% of Initial Purchase)	1.00	PLS	\$17,753.00

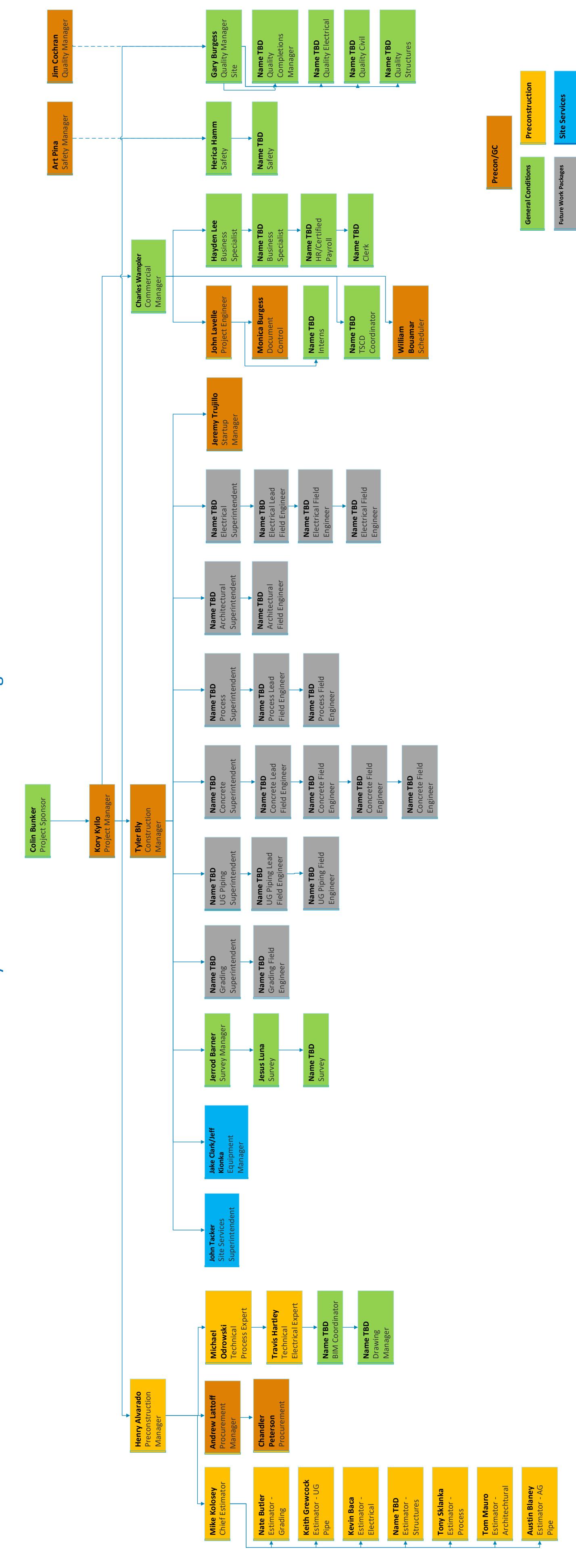








Description	Quantity	Unit Of Measure	Total Price
Site Fencing			
Site Fencing	2,569.00	LF	\$44,186.80
20' Vehicle Gates	4.00	Ea	\$6,000.00
4' Pedestrian Gates	2.00	Ea	\$5,000.00
Electrical			
Temp Power Trenching	850.00	CY	\$34,876.18
Craft Labor Site Services Escalation			
Craft Wages	146.07	K\$	\$146,070.20
Craft MH Supplies & Consumables			
Site Services / Temp Enviro / Electrical MH Supplies & Consumables	46,000.00	МН	\$167,990.23
Early Procurement			\$10,000,000.00
Early Procurement	1.00	PLS	\$10,000,000.00
Contingency			\$4,073,879.01
Contingency @ 9%	4,073.88	K\$	\$4,073,879.01
Subtotal			\$49,339,201.32
CMAR Fee			\$4,909,250.53
CMAR Fee @ 9.95%	4,909.25	K\$	\$4,909,250.53
Total			\$54,248,451.85



City of Sherman WW	VTP - CMAR Baseline Schedule - LIVE	ALL	. ACTIVIT	IES			DATA DATE: 30-Sep-23
Activity ID	Activity Name	OL	RD	% Comp	Start	Finish	2024 2025
							O N D J F M A M J Jul A S O N D J F M A M J Jul A S O
City of Shern	nan WWTP - CMAR Baseline Schedule	- LIVE	5 456		21-Aug-23 A	26-Jul-25	<mark>/</mark>
Milestones		48	5 265		21-Aug-23 A	26-Jul-25	
Contractual		48	5 265		21-Aug-23 A	26-Jul-25	
MILE-100	Early Start (8/17/23 Interview Authorized Action) 0	0	100%	21-Aug-23 A		arly Start (8/17/23 Interview Authorized Action)
MILE-110	Award Contract (9/18/23)	, 0		100%	18-Sep-23 A		Award Contract (9/18/23)
MILE-120	Notice of Award (9/25/23)	7	0	100%		26-Sep-23 A	Notice of Award (9/25/23)
MILE-130	Preconstruction Services Complete	0	0	0%		03-Jul-24	♦ Preconstruction Services Complete
MILE-140	Substantial Completion (4/30/25)	0	0	0%		29-Apr-25*	◆ Substantial Comple
MILE-150	Final Completion (7/26/25)	0	0	0%		26-Jul-25*	Tinal Co
Permits and	Design	16	4 154		04-Sep-23 A	10-May-24	
Permits		55	45		04-Sep-23 A	05-Dec-23	7
PT-110	Erosion and Sediment Control	14		35.71%	04-Sep-23 A		Erosion and Sediment Control
PT-120	SPCC- Spill Prevention and Countermeasures			28.57%	04-Sep-23 A	12 000 20	SPCC- Spill Prevention and Countermeasures Plan
PT-100	Construction Permits	14		0%	02-Oct-23	19-Oct-23	Construction Permits
PT-130	Power Feed Study	45		0%	02-Oct-23	05-Dec-23	Power Feed Study
Design Packa	•	15			06-Oct-23	10-May-24	
Priority One In			64		06-Oct-23	10-Jan-24	
DSNP-100	60% Internal Distribution	6		0%	06-Oct-23*	13-Oct-23	□ 60% Internal Distribution
DSNP-110	60% Internal QC Meeting	6		0%	06-Oct-23	13-Oct-23	□ 60% Internal QC Meeting
DSNP-120	60% Submittal	5		0%	16-Oct-23	20-Oct-23	0 60% Submittal
DSNP-130	60% Review: City/P-D & CMAR	7	7	0%	23-Oct-23	31-Oct-23	☐ 60% Review; City/P-D & CMAR
DSNP-140	60% Early Out	11	11	0%	01-Nov-23	15-Nov-23	□ 60% Early Out
DSNP-150	90% Internal QC Meeting	21		0%	16-Nov-23	18-Dec-23	90% Internal QC Meeting
DSNP-160	90% Submittal & Review: City/P-D & CMAR	9		0%	19-Dec-23	03-Jan-24	90% Submittal & Review: City/P-D & CMAR
DSNP-170	90% Early Out	5	5	0%	04-Jan-24	10-Jan-24	g 90% Early Out
Priority Two In	•	92	92		01-Nov-23	14-Mar-24	
DSNP-180	60% Internal Distribution	14	14	0%	01-Nov-23	20-Nov-23	60% Internal Distribution
DSNP-190	60% Internal QC Meeting	7	7	0%	21-Nov-23	01-Dec-23	□ 60% Internal QC Meeting
DSNP-200	60% Submittal	1	1	0%	04-Dec-23	04-Dec-23	I 60% Submittal
DSNP-210	60% Review: City/P-D & CMAR	10) 10	0%	05-Dec-23	18-Dec-23	☐ 60% Review: City/P-D & CMAR
DSNP-220	60% Early Out	20	20	0%	19-Dec-23	18-Jan-24	60% Early Out
DSNP-230	90% Internal QC Meeting	15	5 15	0%	19-Jan-24	08-Feb-24	90% Internal QC Meeting
DSNP-240	90% Submittal & Review: City/P-D & CMAR	10	10	0%	09-Feb-24	22-Feb-24	□ 90% Submittal & Review: City/P-D & CMAR
DSNP-250	90% Early Out	15	5 15	0%	23-Feb-24	14-Mar-24	p0% Early Out
Priority Three	Improvements	65	65		09-Feb-24	10-May-24	
DSNP-260	60% Internal Distribution	8	8	0%	09-Feb-24	20-Feb-24	☐ 60% Internal Distribution
DSNP-270	60% Internal QC Meeting	17	7 17	0%	21-Feb-24	14-Mar-24	60% Internal QC Meeting
DSNP-280	60% Submittal	1	1	0%	15-Mar-24	15-Mar-24	ı 60% Submittal
DSNP-290	60% Review: City/P-D & CMAR	10	10	0%	15-Mar-24	28-Mar-24	60% Review: City/P-D & CMAR
DSNP-300	60% Early Out	12		0%	01-Apr-24	16-Apr-24	□ 60% Early Out
DSNP-310	90% Internal QC Meeting	5	5	0%	17-Apr-24	23-Apr-24	□ 90% Internal QC Meeting
DSNP-320	90% Submittal & Review: City/P-D & CMAR	9	9	0%	24-Apr-24	06-May-24	90% Submittal & Review: City/P-D & CMAR
DSNP-330	90% Early Out	4	4	0%	07-May-24	10-May-24	』 90% Early Out
			1				
Remaining	g Level of Effort						



Remaining Work

Milestone



iy of Snerman vv vv i F ity ID	P - CMAR Baseline Schedule - LIVE Activity Name	ALL AC	CTIVITIE	% Comp	Start	Finish	DATA DATE: 30-Sep
ity iD	Activity Name	OD	עט	% Comp	Start	FILIISH	2024 2025 O N D J F M A M J Jul A S O N D J F M A M J Jul A S
Preconstruction	n Services	225	191		21-Aug-23 A	03-Jul-24	
PRE-100	CMAR Construction Administration and Management Planning (4.1.1 /	4.1.6) 220	191	13.18%	21-Aug-23 A	03-Jul-24	CMAR Construction Administration and Managemer
PRE-110	Kickoff / Partnering / Workshops / and Progress Meetings (4.1.2 / 4.1.5	·	191	13.18%	21-Aug-23 A	03-Jul-24	Kickoff / Partnering / Workshops / and Progress Me
PRE-140	Develop Safety / Risk / Quality / Document / Schedule / Cost Managem		20	66.67%	21-Aug-23 A	27-Oct-23	Develop Safety / Risk / Quality / Document / Schedule / Cost Management Plans (4
PRE-120	Cost Model - 30% (Preliminary GMP / Risk Register / and Schedule 4.1	` ′	20	33.33%	18-Sep-23 A	27-Oct-23	Cost Model - 30% (Preliminary GMP / Risk Register / and Schedule 4.1.3)
PRE-130	Perform Value Engineering and Cost Saving Analysis - As Needed (4.1	·	135	6.9%	18-Sep-23 A	15-Apr-24	Perform Value Engineering and Cost Saving Analysis - As Ne
PRE-150	Design Review / Phasing / Alternative Analysis / and Constructability - 6	•	110	0%	23-Oct-23	01-Apr-24	Design Review / Phasing / Alternative Analysis / and Constructa
PRE-160	Design Review / Phasing / Alternative Analysis / and Constructability - 9	` '	100	0%	19-Dec-23	10-May-24	Design Review / Phasing / Alternative Analysis / and Cons
Preconstruction		210	191	070	21-Aug-23 A	03-Jul-24	
Procurement Ser		210			21-Aug-23 A	03-Jul-24	
	Develop Procurement Plan (Agree on Work Packages 4.1.10)		10	75%	21-Aug-23 A	13-Oct-23	Develop Procurement Plan (Agree on Work Packages 4.1.10)
	Create Initial Work Packaging Recommendation (4.1.8)	40		95%		02-Oct-23	Create Initial Work Packaging Recommendation (4.1.8)
	0 0	20	1		21-Aug-23 A	02-Oct-23	Develop Procurement Package A/B/C
	Develop Procurement Package A/B/C	20	1	95%	05-Sep-23 A		Bid / Review / Negotiate / Award Procurement Package A/B/D
	Bid / Review / Negotiate / Award Procurement Package A/B/D	20	11	45%	18-Sep-23 A	16-Oct-23	Develop Procurement Package D
	Develop Procurement Package D	10	10	0%	02-Oct-23	16-Oct-23	Develop Outreach Materials / Hold Outreach
	Develop Outreach Materials / Hold Outreach	10	10	0%	03-Oct-23	16-Oct-23	Develop Procurement Package E/F/G/H
PRO-SERV-160	,	15	15	0%	16-Oct-23	03-Nov-23	Contract and Complete Pre-Mobilization Paperwork and Procurement Procurement
	Contract and Complete Pre-Mobilization Paperwork and Procurement	-	10	0%	17-Oct-23	30-Oct-23	Bid / Review / Negotiate / Award Procurement Package D
PRO-SERV-190	3	25	25	0%	17-Oct-23	20-Nov-23	Develop Procurement Package I/J
	Develop Procurement Package I/J	20	20	0%	23-Oct-23	17-Nov-23	<u>. </u>
PRO-SERV-200	ŭ J	25	25	0%	06-Nov-23	12-Dec-23	Bid / Review / Negotiate / Award Procurement Package E/F/G/H
PRO-SERV-210	9	30	30	0%	20-Nov-23	05-Jan-24	Bid / Review / Negotiate / Award Procurement Package I/J
PRO-SERV-220	·	-	10	0%	21-Nov-23	06-Dec-23	Contract and Complete Pre-Mobilization Paperwork and Procurement Procur
PRO-SERV-230	·	-	10	0%	13-Dec-23	28-Dec-23	Contract and Complete Pre-Mobilization Paperwork and Procurement Pro
PRO-SERV-240	1	-	90	0%	08-Jan-24	13-May-24	Contract and Complete Pre-Mobilization Paperwork and F
PRO-SERV-250		20	20	0%	15-Apr-24	13-May-24	Develop Procurement Package K
PRO-SERV-260	, J	25	25	0%	13-May-24	17-Jun-24	Bid / Review / Negotiate / Award Procurement Packa
PRO-SERV-270	Contract and Complete Pre-Mobilization Paperwork and Procurement	Procurement Package K 12	12	0%	18-Jun-24	03-Jul-24	☐ Contract and Complete Pre-Mobilization Paperworl
Procurement		30	30		21-Aug-23 A	10-Nov-23	
Owner Supplied I	Equipment State of the state of	30	0		21-Aug-23 A	18-Sep-23 A	
PRO-OS-100	Bid Electrical Switchgear, Transformers, Generator	30	0	100%	21-Aug-23 A	18-Sep-23 A	Bid Electrical Switchgear, Transformers, Generator
Owner Pre-Selec	cted Equipment	30	30		21-Aug-23 A	10-Nov-23	
PRO-OS-110	Bid Electrical - Switchboard, Panels, ATS, VFD, Xformer	5	5	0%	21-Aug-23 A	06-Oct-23	Bid Electrical - Switchboard, Panels, ATS, VFD, Xformer
PRO-OS-120	Bid Long Lead 1 - Pumps, Effluent Filter, EQ, Screens	5	10	0%	24-Sep-23 A	13-Oct-23	Bid Long Lead 1 - Pumps, Effluent Filter, EQ, Screens
PRO-OS-130	Bid Long Lead 2 - Chem, Valves, Pipe, Aeration, Mixing, Grit, Blowers	10	10	0%	02-Oct-23*	13-Oct-23	☐ Bid Long Lead 2 - Chem, Valves, Pipe, Aeration, Mixing, Grit, Blowers
PRO-OS-140	Bid Long Lead 3 - HVAC and Remaining Process	10	10	0%	30-Oct-23*	10-Nov-23	☐ Bid Long Lead 3 - HVAC and Remaining Process
ontracts	<u> </u>	30	30		16-Oct-23	28-Nov-23	
PRO-K-100	Coarse Screen Washer/Compactor	30	30	0%	16-Oct-23	28-Nov-23	Coarse Screen Washer/Compactor
PRO-K-110	Submersible Pumps	30	30	0%	16-Oct-23	28-Nov-23	Submersible Pumps
PRO-K-110	Grit Removal Unit (Vortex)	30	30	0%	16-Oct-23	28-Nov-23	Grit Removal Unit (Vortex)
PRO-K-120 PRO-K-130	Grit Pumps	30	30	0%	16-Oct-23	28-Nov-23	Grit Pumps
PRO-K-130 PRO-K-140	Grit Classifier				16-Oct-23		Grit Classifier
PRO-K-140 PRO-K-150		30	30	0%		28-Nov-23	Fine Screen Rotary Drum & Washer/Compactor
LUO-V-190	Fine Screen Rotary Drum & Washer/Compactor	30	30	0%	16-Oct-23	28-Nov-23	L Society Elance Control of the Cont





Remaining Work

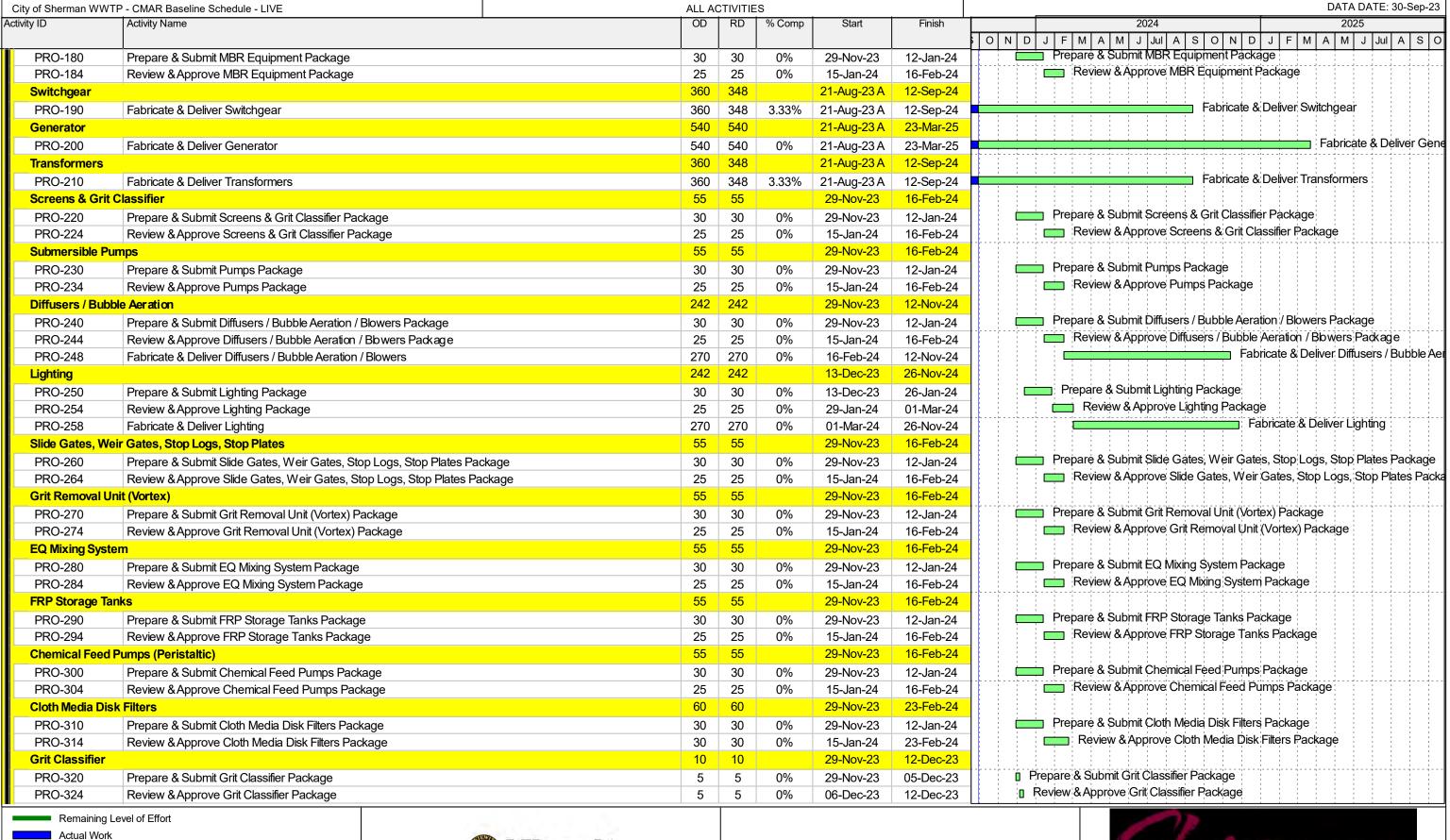
•	TP - CMAR Baseline Schedule - LIVE	ALL A	CTIVITIE	S			DATA DATE: 30-Sep-
vity ID	Activity Name	OD	RD	% Comp	Start	Finish	2024 2025 O N D J F M A M J Jul A S O N D J F M A M J Jul A S
PRO-K-160	EO Mixing System (Air Compressor Air Pagigyar Tank & Diffusor Nozzlag	20	20	0%	16-Oct-23	28-Nov-23	O N D J F M A M J Jul A S O N D J F M A M J Jul A S EQ Mixing System (Air Compressor, Air Reciever Tank & Diffuser Nozzles
PRO-K-160 PRO-K-170	EQ Mixing System (Air Compressor, Air Reciever Tank & Diffuser Nozzles FRP Storage Tanks	30	30	0%	16-Oct-23	28-Nov-23	FRP Storage Tanks
PRO-K-170	Chemical Feed Pumps (Peristaltic)	30	30	0%	16-Oct-23	28-Nov-23	Chemical Feed Pumps (Peristaltic)
PRO-K-100 PRO-K-190	Submersible Mixers			0%	16-Oct-23	28-Nov-23	Submersible Mixers
	Fine Bubble Membrane Disc Diffusers	30	30			28-Nov-23	Fine Bubble Membrane Disc Diffusers
PRO-K-200		30	30	0%	16-Oct-23	-	Blower (Positive Displacement) - BNR
PRO-K-210	Blower (Positive Displacement) - BNR	30	30	0%	16-Oct-23	28-Nov-23	Membrane Cartridges, Pumps, & Accessories
PRO-K-220	Membrane Cartridges, Pumps, & Accessories	30	30	0%	16-Oct-23	28-Nov-23	Blowers (Positive Displacement) - MBR
PRO-K-230	Blowers (Positive Displacement) - MBR	30	30	0%	16-Oct-23	28-Nov-23	_
PRO-K-240	Rotary Lobe Pumps	30	30	0%	16-Oct-23	28-Nov-23	
PRO-K-250	Self-Priming Centrifugal Pumps	30	30	0%	16-Oct-23	28-Nov-23	Self-Priming Centrifugal Pumps
PRO-K-260	Cloth Media Disk Filters	30	30	0%	16-Oct-23	28-Nov-23	Cloth Media Disk Filters
PRO-K-270	Slide Gates, Weir Gates, Stop log, Stop Plates	30	30	0%	16-Oct-23	28-Nov-23	Slide Gates, Weir Gates, Stop log, Stop Plates
PRO-K-280	Vertical Turbine Pumps	30	30	0%	16-Oct-23	28-Nov-23	Vertical Turbine Pumps
Submittals		370	370		21-Aug-23 A	23-Mar-25	
Rotary Lobe Pu	umps	60	60		29-Nov-23	23-Feb-24	
PRO-100	Prepare & Submit Rotary Lobe Pumps Package	30	30	0%	29-Nov-23	12-Jan-24	Prepare & Submit Rotary Lobe Pumps Package
PRO-104	Review & Approve Rotary Lobe Pumps Package	30	30	0%	15-Jan-24	23-Feb-24	Review & Approve Rotary Lobe Pumps Package
	entrifugal Pumps	60	60	070	29-Nov-23	23-Feb-24	
PRO-110	Prepare & Submit Self-Priming Centrifugal Pumps Package	30	30	0%	29-Nov-23	12-Jan-24	Prepare & Submit Self-Priming Centrifugal Pumps Package
PRO-114	Review & Approve Self-Priming Centrifugal Pumps Package	30	30	0%	15-Jan-24	23-Feb-24	Review & Approve Self-Priming Centrifugal Pumps Package
Coarse Screen		60	60	0 70	29-Nov-23	23-Feb-24	The state of the s
				00/			Prepare & Submit Coarse Screen Package
PRO-120	Prepare & Submit Coarse Screen Package	30	30	0%	29-Nov-23	12-Jan-24	<u> </u>
PRO-124	Review & Approve Coarse Screen Package	30	30	0%	15-Jan-24	23-Feb-24	Review & Approve Coarse Screen Package
SWPPP		13	13		09-Oct-23	25-Oct-23	
PRO-130	Review & Approve SWPPP	10	10	0%	09-Oct-23	20-Oct-23	Review & Approve SWPPP
PRO-134	Fabricate & Deliver SWPPP	5	5	0%	20-Oct-23	25-Oct-23	■ Fabricate & Deliver SWPPP
Concrete / Rei	nforcing / Embeds	44	44		06-Nov-23	11-Jan-24	
PRO-140	Prepare & Submit (1st Rebar Shipment)	13	13	0%	06-Nov-23	22-Nov-23	Prepare & Submit (1st Rebar Shipment)
PRO-144	Review & Approve (1st Rebar Shipment)	20	20	0%	27-Nov-23	22-Dec-23	Review & Approve (1st Rebar Shipment)
PRO-148	Fabricate & Deliver (1st Rebar Shipment)	20	20	0%	22-Dec-23	11-Jan-24	Fabricate & Deliver (1st Rebar Shipment)
Misc Metals		138	138		06-Nov-23	23-May-24	
PRO-150	Prepare & Submit Misc Metals Package	50	50	0%	06-Nov-23	19-Jan-24	Prepare & Submit Misc Metals Package
PRO-154	Review & Approve Misc Metals Package	25	25	0%	22-Jan-24	23-Feb-24	Review & Approve Misc Metals Package
PRO-158	Fabricate & Deliver Misc Metal	90	90	0%	23-Feb-24	23-May-24	Fabricate & Deliver Misc Metal
			72	0 70	01-Nov-23	15-Feb-24	The state of the s
Underslab and		72		00/			Prepare & Submit Underslab and Wall Piping Package (Critical Pieces / Subn
PRO-160	Prepare & Submit Underslab and Wall Piping Package (Critical Pieces / Submittals on LNTP)	30	30	0%	01-Nov-23	14-Dec-23	
PRO-164	Review & Approve Underslab and Wall Piping Package (Critical Pieces)	20	20	0%	15-Dec-23	16-Jan-24	Review & Approve Underslab and Wall Piping Package (Critical Pieces)
PRO-168	Fabricate & Deliver Underslab and Wall Piping (Critical Pieces)	30	30	0%	16-Jan-24	15-Feb-24	Fabricate & Deliver Underslab and Wall Piping (Critical Pieces)
Process Piping		138	138		13-Dec-23	29-Jun-24	
PRO-170	Prepare & Submit Process Piping Package	30	30	0%	13-Dec-23	26-Jan-24	Prepare & Submit Process Piping Package
PRO-174	Review & Approve Process Piping Package	25	25	0%	29-Jan-24	01-Mar-24	Review & Approve Process Piping Package
PRO-178	Fabricate & Deliver Process Piping	120	120	0%	01-Mar-24	29-Jun-24	Fabricate & Deliver Process Piping
MBR Equipmen	nt .	55	55		29-Nov-23	16-Feb-24	



Remaining Work

Milestone

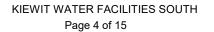






Remaining Work

Milestone





	VTP - CMAR Baseline Schedule - LIVE	ALL A	CTIVITIE	S			DATA DATE: 30-
/ ID	Activity Name	OD	RD	% Comp	Start	Finish	2024 2025
ertical Turbin	no Pumpo	10	10		29-Nov-23	12-Dec-23	O N D J F M A M J Jul A S O N D J F M A M J Jul A
				00/			☐ Prepare & Submit Vertical Turbine Pumps Package
RO-330	Prepare & Submit Vertical Turbine Pumps Package	5	5	0%	29-Nov-23	05-Dec-23	Review & Approve Vertical Turbine Pumps Package
RO-334	Review & Approve Vertical Turbine Pumps Package	5	5	0%	06-Dec-23	12-Dec-23	The view & Approve vertical runps rackage
<mark>ıbmersible N</mark>		10	10		29-Nov-23	12-Dec-23	T. Dranava & Cultural Voytical Turking Durana Dadkaga
RO-340	Prepare & Submit Vertical Turbine Pumps Package	5	5	0%	29-Nov-23	05-Dec-23	Prepare & Submit Vertical Turbine Pumps Package
RO-344	Review & Approve Vertical Turbine Pumps Package	5	5	0%	06-Dec-23	12-Dec-23	Review & Approve Vertical Turbine Pumps Package
orication 8	& Delivery	180	180		29-Nov-23	15-Aug-24	
-100	Blower (Positive Displacement) - BNR	120	120	0%	29-Nov-23	20-May-24	Blower (Positive Displacement) - BNR
-110	Vertical Turbine Pumps	80	80	0%	13-Dec-23	08-Apr-24	Vertical Turbine Pumps
-120	Submersible Pumps	80	80	0%	16-Feb-24	11-Jun-24	Submersible Pumps
-130	Fine Screen (Rotary Drum)	30	30	0%	16-Feb-24	01-Apr-24	Fine Screen (Rotary Drum)
-140	Fine Screen Washer/Compactor	30	30	0%	16-Feb-24	01-Apr-24	Fine Screen Washer/Compactor
-150	Submersible Mixers	80	80	0%	16-Feb-24	11-Jun-24	Submersible Mixers
-160	Fine Bubble Membrane Disc Diffusers	40	40	0%	16-Feb-24	15-Apr-24	Fine Bubble Membrane Disc Diffusers
-170	Membrane Cartridges	100	100	0%	16-Feb-24	11-Jul-24	Membrane Cartridges
-180	Blowers (Positive Displacement) - MBR	120	120	0%	16-Feb-24	08-Aug-24	Blowers (Positive Displacement) - MBR
-190	Grit Removal Unit (Vortex)	20	20	0%	19-Feb-24	15-Mar-24	Grit Removal Unit (Vortex)
-200	Grit Pumps	20	20	0%	19-Feb-24	15-Mar-24	Grit Pumps
-210	Grit Classifier	20	20	0%	19-Feb-24	15-Mar-24	Grit Classifier
-220	EQ Mixing System Air Compressors	70	70	0%	19-Feb-24	28-May-24	EQ Mixing System Air Compressors
-230	EQ Mixing System Air Reciever Tank	80	80	0%	19-Feb-24	11-Jun-24	EQ Mixing System Air Reciever Tank
-240	EQ Mixing System Diffuser Nozzles	30	30	0%	19-Feb-24	01-Apr-24	EQ Mixing System Diffuser Nozzles
-250	FRP Storage Tanks	100	100	0%	19-Feb-24	11-Jul-24	FRP Storage Tanks
-260	Chemical Feed Pumps (Peristaltic)	60	60	0%	19-Feb-24	13-May-24	Chemical Feed Pumps (Peristaltic)
-270	Slide Gates, Weir Gates, Stop log, Stop Plates	40	40	0%	19-Feb-24	15-Apr-24	Slide Gates, Weir Gates, Stop log, Stop Plates
-280	Coarse Screen	40	40	0%	26-Feb-24	22-Apr-24	Coarse Screen
-290	Coarse Screen Washer/Compactor	40	40	0%	26-Feb-24	22-Apr-24	Coarse Screen Washer/Compactor
-300	Rotary Lobe Pumps	80	80	0%	26-Feb-24	18-Jun-24	Rotary Lobe Pumps
-310	Self-Priming Centrifugal Pumps	120	120	0%	26-Feb-24	15-Aug-24	Self-Priming Centrifugal Pumps
-320	Cloth Media Disk Filters	60	60	0%	26-Feb-24	20-May-24	Cloth Media Disk Filters
nstruction	1	416	416		20-Oct-23	17-Jun-25	
bilization		416	416		20-Oct-23	17-Jun-25	
OB-100	Mobilization / Setup Temporary Facilities	29	29	0%	20-Oct-23	08-Dec-23	Mobilization / Setup Temporary Facilities
OB-110	Install SWPPP	9	9	0%	26-Oct-23	09-Nov-23	Install SWPPP
OB-130	Prep & Grade for Trailer Complex	5	5	0%	26-Oct-23	01-Nov-23	☐ Prep & Grade for Trailer Complex
OB-140	E/L/B Water & Sewer for Trailers	10	10	0%	02-Nov-23	15-Nov-23	☐ E/L/B Water & Sewer for Trailers
OB-150	E/L/B Electrical for Trailers	10	10	0%	02-Nov-23	15-Nov-23	☐ E/L/B Electrical for Trailers
OB-160	Deliver & Setup Trailers	10	10	0%	06-Nov-23	17-Nov-23	☐ Deliver & Setup Trailers
OB-170	Deliver & Install Furniture for Trailers	10	10	0%	20-Nov-23	05-Dec-23	Deliver & Install Furniture for Trailers
OB-180	Install IT Equipment	10	10	0%	20-Nov-23	05-Dec-23	Install IT Equipment
IOB-120	Demobilization / Remove Temporary Facilities / Restore Site / Remove SWPPP	27	27	0%	30-Apr-25	17-Jun-25	Demo
ework		222	222		10-Nov-23	30-Sep-24	
TE-100	Clear and Grub	5	5	0%	10-Nov-23	17-Nov-23	■ Clear and Grub



Remaining Work

Milestone



City of Sherman WW	TP - CMAR Baseline Schedule - LIVE		ALL AC	CTIVITIE	s			DATA DATE: 30-Sep-23
Activity ID	Activity Name	•	OD	RD	% Comp	Start	Finish	2024 2025
-								O N D J F M A M J Jul A S O N D J F M A M J Jul A S C
SITE-110	Establish Temp Roads / Install Temporary Utilit	ies	10	10	0%	20-Nov-23	05-Dec-23	Establish Temp Roads / Install Temporary Utilities
SITE-120	Mass Grading		15	15	0%	07-Dec-23	03-Jan-24	Mass Grading
Yard Piping			146	146		15-Feb-24	13-Sep-24	
SITE-130	E/L/B 42" RS Diversion Structure to Influent Pu	ımp Station (1 /500 LF)	50	50	0%	15-Feb-24	26-Apr-24	E/L/B 42" RS Diversion Structure to Influent Pump Station (1 /500
SITE-140	Install MH-C		2	2	0%	15-Feb-24	19-Feb-24	լ Install MH-C
SITE-150	E/L/B 16" D MH-B to MH-C (350 LF)		10	10	0%	19-Feb-24	04-Mar-24	☐ E/L/B 16" D MH-B to MH-C (350 LF)
SITE-160	Install MH-B		2	2	0%	04-Mar-24	06-Mar-24	μ Install MH-B
SITE-170	E/L/B 12" D MH-A to MH-B (160 LF)		5	5	0%	06-Mar-24	13-Mar-24	□ E/L/B 12" D MH-A to MH-B (160 LF)
SITE-180	E/L/B 12" D Biological Reactor Basin MH-B (95	5 LF)	5	5	0%	06-Mar-24	13-Mar-24	☐ E/L/B 12" D Biological Reactor Basin MH-B (95 LF)
SITE-190	Install MH-A		2	2	0%	13-Mar-24	15-Mar-24	☐ Install MH-A
SITE-200	E/L/B 8" D EQ Basin to MH-A (130 LF)		5	5	0%	15-Mar-24	22-Mar-24	□ E/L/B 8" D EQ Basin to MH-A (130 LF)
SITE-210	E/L/B 8" D Preliminary Treatment Unit to MH-A	(320 LF)	10	10	0%	15-Mar-24	01-Apr-24	E/L/B 8" D Preliminary Treatment Unit to MH-A (320 LF)
SITE-220	E/L/B 18" D MH-C to MH-D (220 LF)		8	8	0%	01-Apr-24	15-Apr-24	☐ E/L/B 18" D MH-C to MH-D (220 LF)
SITE-230	E/L/B 30" RS Preliminary Treatment Unit to EC	Basin (160 LF)	10	10	0%	01-Apr-24	15-Apr-24	☐ E/L/B 30" RS Preliminary Treatment Unit to EQ Basin (160 LF)
SITE-240	E/L/B 30" RS Preliminary Treatment Unit to EC	Basin Effluent (365 LF)	10	10	0%	15-Apr-24	29-Apr-24	☐ E/L/B 30" RS Preliminary Treatment Unit to EQ Basin Effluent (36
SITE-250	Install MH-D		2	2	0%	15-Apr-24	17-Apr-24	I Install MH-D
SITE-260	E/L/B 10" D Membrane Basin to MH-D (210 L	=)	7	7	0%	17-Apr-24	26-Apr-24	□ E/L/B 10" D Membrane Basin to MH-D (210 LF)
SITE-270	E/L/B 24" RS Ifluent Pump Station to Prelimina	ry Treatment Unit (1 /125 LF)	25	25	0%	26-Apr-24	03-Jun-24	E/L/B 24" RS Ifluent Pump Station to Preliminary Treatment
SITE-280	E/L/B 18" D MH-D to Influent Pump Station (35	50 LF)	10	10	0%	26-Apr-24	10-May-24	□ E/L/B 18" D MH-D to Influent Pump Station (350 LF)
SITE-290	E/L/B 30" RS EQ Basin to Flow Split/Mixing Str	ucture (200 LF)	10	10	0%	29-Apr-24	13-May-24	■ E/L/B 30" RS EQ Basin to Flow Split/Mixing Structure (200 LF)
SITE-300	E/L/B 12" RS Flow Split/Mixing Structure (North	n) to Biological Reactor Basin (100 LF)	5	5	0%	13-May-24	20-May-24	☐ E/L/B 12" RS Flow Split/Mixing Structure (North) to Biological F
SITE-330	E/L/B 12" RS Flow Split/Mixing Structure (Sout	, , ,	5	5	0%	20-May-24	28-May-24	☐ E/L/B 12" RS Flow Split/Mixing Structure (South) to Biological
SITE-340	E/L/B 30" RAS Flow Slipt/Mixing Structure to R		10	10	0%	28-May-24	11-Jun-24	☐ E/L/B 30" RAS Flow Slipt/Mixing Structure to RAS/WAS Pur
SITE-370	E/L/B 16" D Diversion Line From Existing Plant	. , ,	15	15	0%	11-Jun-24	02-Jul-24	E/L/B 16" D Diversion Line From Existing Plant to MH-C
SITE-380	E/L/B 24" FE Membrane Support Building to E	` '	25	25	0%	11-Jun-24	18-Jul-24	E/L/B 24" FE Membrane Support Building to Existing U
SITE-390	E/L/B 6" WAS Membrane Support Building to	- , ,	25	25	0%	11-Jun-24	18-Jul-24	E/L/B 6" WAS Membrane Support Building to Existing
SITE-440	E/L/B 2' Chemical lines Micro C to Flow Split/M		10	10	0%	18-Jul-24	01-Aug-24	■ E/L/B 2' Chemical lines Micro C to Flow Split/Mixing S
SITE-470	E/L/B 24" ALP Blower Building to Biological Re		15	15	0%	01-Aug-24	22-Aug-24	☐ E/L/B 24"ALP Blower Building to Biological Reacto
SITE-520	E/L/B 24" ALP Blower Building to Membrane B	, ,	15	15	0%	22-Aug-24	13-Sep-24	E/L/B 24"ALP Blower Building to Membrane Ba
Electrical Ductl			96			13-May-24	30-Sep-24	
SITE-310	E/L/B Duct Bank Electrical Building to "EMH-A"		12	12	0%	13-May-24	30-May-24	■ E/L/B Duct Bank Electrical Building to "EMH-A"
SITE-320	E/L/B Duct Bank "EMH-C" to "EMH-D"		12	12	0%	13-May-24	30-May-24	■ E/L/B Duct Bank "EMH-C" to "EMH-D"
SITE-350	E/L/B Duct Bank "EMH-A to "EMH-B"		12	12	0%	30-May-24	17-Jun-24	□ E/L/B Duct Bank "EMH-A to "EMH-B"
SITE-360	E/L/B Duct Bank "EMH-C" to "EMH-E"		12	12	0%	30-May-24	17-Jun-24	□ E/L/B Duct Bank "EMH-C" to "EMH-E"
SITE-400	E/L/B Duct Bank "EMH-B" to "EMH-C"		12	12	0%	17-Jun-24	03-Jul-24	□ E/L/B Duct Bank "EMH-B" to "EMH+C"
SITE-410	E/L/B Duct Bank "EMH-E to "EMH-F"		12	12	0%	17-Jun-24	03-Jul-24	□ E/L/B Duct Bank "EMH-E to "EMH-F"
SITE-420	E/L/B Duct Bank "EMH-D" to Influent Pump St	ation	12	12	0%	03-Jul-24	23-Jul-24	E/L/B Duct Bank "EMH-D" to Influent Pump Station
SITE-430	E/L/B Duct Bank "EMH-F" to Prelimanary Trea		12	12	0%	03-Jul-24	23-Jul-24	□ E/L/B Duct Bank "EMH-F" to Prelimanary Treatment U
SITE-450	E/L/B Duct Bank "EMH-E" Blower Building		12	12	0%	23-Jul-24	08-Aug-24	□ E/L/B Duct Bank "EMH-E" Blower Building
SITE-460	E/L/B Duct Bank "EMH-C to Membrane Suppo	ort Building	12	12	0%	23-Jul-24	08-Aug-24	□ E/L/B Duct Bank "EMH-C to Membrane Support Bu
SITE-480	E/L/B Duct Bank Electrical Building to Generat		3	3	0%	08-Aug-24	13-Aug-24	☐ E/L/B Duct Bank Electrical Building to Generator
SITE-490	Pull Wire Duct Bank Electrical Building to "EMI-		3	3	0%	13-Aug-24	16-Aug-24	Pull Wire Duct Bank Electrical Building to "EMH-A"
SITE-500	Pull Wire Duct Bank "EMH-A to "EMH-B"	171	3	3	0%	16-Aug-24	21-Aug-24	Pull Wire Duct Bank "EMH-Ato "EMH-B"
SITE-500	Pull Wire Duct Bank "EMH-B" to "EMH-C"		3	3	0%	21-Aug-24	26-Aug-24	☐ Pull Wire Duct Bank "EMH-B" to "EMH-C"
OITE-310	I All VVIIC DUOL DATIN LIVII I-D TO LIVII I-C		J	J	J 70	∠ 1-/1uy-24	20-74	
Remaining Actual Work	Level of Effort						ED EACH ITIES	



Remaining Work

Milestone

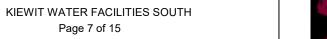


City of Sherman WW	TP - CMAR Baseline Schedule - LIVE	ALL ACTIV	VITIES	3			DATA DATE: 30-Sep-
ctivity ID	Activity Name	OD F	RD	% Comp	Start	Finish	2024 2025
							O N D J F M A M J Jul A S O N D J F M A M J Jul A S
SITE-530	Pull Wire Duct Bank "EMH-C" to "EMH-D"		3	0%	26-Aug-24	29-Aug-24	Pull Wire Duct Bank "EMH-C" to "EMH-D"
SITE-540	Pull Wire Duct Bank "EMH-C" to "EMH-E"		3	0%	29-Aug-24	04-Sep-24	Pull Wire Duct Bank "EMH-C" to "EMH-E"
SITE-550	Pull WireDuct Bank "EMH-E to "EMH-F"		3	0%	04-Sep-24	09-Sep-24	Pull WireDuct Bank "EMH-E to "EMH-F"
SITE-560	Pull Wire Duct Bank "EMH-F" to Prelimanary Treatment Unit		3	0%	09-Sep-24	12-Sep-24	Pull Wire Duct Bank "EMH-F" to Prelimanary - Dull Wire Duct Bank "EMH-P" to Prelimanary - Dull Wire Duct Bank "EMH-P" to Prelimanary - Dull Wire Duct Bank "EMH-P" to Prelimanary
SITE-570	Pull Wire Duct Bank "EMH-D" to Influent Pump Station		3	0%	12-Sep-24	17-Sep-24	□ Pull Wire Duct Bank "EMH-D" to Influent Pun
SITE-580	Pull Wire Duct Bank "EMH-E" Blower Building		3	0%	17-Sep-24	20-Sep-24	□ Pull Wire Duct Bank "EMH-E" Blower Buildin
SITE-590	Pull Wire Duct Bank "EMH-C to Membrane Support Building		3	0%	20-Sep-24	25-Sep-24	Pull Wire Duct Bank "EMH-C to Membrane
SITE-600	Pull Wire Duct Bank Electrical Building to Generator		3	0%	25-Sep-24	30-Sep-24	Pull Wire Duct Bank Electrical Building to G
Diversion Struc	cture (Priority 1 Improvements)	104 1	104		25-Apr-24	23-Sep-24	
DIVS-170	Hydrotest Structure - Diversion Structure	5	5	0%	26-Aug-24	30-Aug-24	Hydrotest Structure - Diversion Structure
DIVS-180	Tie-In - Diversion Structure	5	5	0%	03-Sep-24	09-Sep-24	☐ Tie-In - Diversion Structure
DIVS-230	Functional Testing - Diversion Structure	5	5	0%	17-Sep-24	23-Sep-24	☐ Functional Testing - Diversion Structure
Civil		94 9	94		25-Apr-24	09-Sep-24	
DIVS-100	Install Support of Excavation - Diversion Structure	14 1	14	0%	25-Apr-24	17-May-24	Install Support of Excavation - Diversion Structure
DIVS-110	Excavate / Subgrade Prep - Diversion Structure	13 1	13	0%	20-May-24	11-Jun-24	Excavate / Subgrade Prep - Diversion Structure
DIVS-210	Backfill Structure - Diversion Structure	5	5	0%	03-Sep-24	09-Sep-24	■ Backfill Structure - Diversion Structure
Structural		44 4	44		13-Jun-24	23-Aug-24	
DIVS-120	FPS Slab - (30cy / 164 SF Edge Form / 420 SF Finish) - Diversion Structure	9	9	0%	13-Jun-24	27-Jun-24	FPS Slab - (30cy / 164 SF Edge Form / 420 SF Finish)
DIVS-130	FPS Walls - Diversion Structure	15 1	15	0%	28-Jun-24	22-Jul-24	FPS Walls - Diversion Structure
DIVS-140	FPS Decks - Diversion Structure		20	0%	23-Jul-24	23-Aug-24	FPS Decks - Diversion Structure
Mechanical			20		26-Aug-24	23-Sep-24	
DIVS-150	Install Piping - Diversion Structure		5	0%	26-Aug-24	30-Aug-24	☐ Install Piping - Diversion Structure
DIVS-200	Install Gates with Motorized Operators (Typ-4) - Diversion Structure		15	0%	03-Sep-24	23-Sep-24	☐ Install Gates with Motorized Operators (Typ-
Electrical & I&C			15	0,0	26-Aug-24	16-Sep-24	
DIVS-160	Install Above Ground Conduits - Diversion Structure		5	0%	26-Aug-24	30-Aug-24	☐ Install Above Ground Conduits - Diversion Stru
DIVS-190	Install Lighting - Diversion Structure		5	0%	03-Sep-24	09-Sep-24	☐ Install Lighting - Diversion Structure
DIVS-220	Pull/Terminate Wire - Diversion Structure		5	0%	10-Sep-24	16-Sep-24	□ Pull/Terminate Wire - Diversion Structure
	Station (Priority 1 Improvements)		277	0 70	04-Jan-24	07-Feb-25	
	Hydrotest Lower Section Pump Area - Influent Pump Station			00/			∏ Hydrotest Lower Section Pump Area - Influent Pump Station
IPS-200			5	0%	22-Apr-24	26-Apr-24	Hydrotest - Influent Pump Station
IPS-350	Hydrotest - Influent Pump Station		10	0%	30-Sep-24	11-Oct-24	Functional Testing - Influent
IPS-490	Functional Testing - Influent Pump Station	007 0	9	0%	24-Jan-25	07-Feb-25	Turicuoriai lesurig - iringeri
UDO 400			207	00/	04-Jan-24	25-Oct-24	Excavate (Incl SOE), and Subgrade Prep - Influent Pump Station
IPS-100	Excavate (Incl SOE), and Subgrade Prep - Influent Pump Station		20	0%	04-Jan-24	05-Feb-24	Backfill Lower walls to EL 617.00 - Influent Pump Station
IPS-210	Backfill Lower walls to EL 617.00 - Influent Pump Station		5	0%	29-Apr-24	03-May-24	□ Backfill Structure to Finished Grade - Infli
IPS-370	Backfill Structure to Finished Grade - Influent Pump Station	10 1	10	0%	14-Oct-24	25-Oct-24	
Structural		189 1	189	201	06-Feb-24	01-Nov-24	EDS Slob on Crado EL 606 00 Jeffyort Dymo Craton
IPS-110	FPS Slab on Grade EL 606.00 - Influent Pump Station		15	0%	06-Feb-24	29-Feb-24	FPS Slab on Grade EL 606.00 - Influent Pump Station
IPS-120	FPS Pump Area Wall 2 - Influent Pump Station	•	7	0%	21-Feb-24	01-Mar-24	FPS Pump Area Wall 2 - Influent Pump Station
IPS-130	FPS Pump Area Wall 1 - Influent Pump Station	•	7	0%	01-Mar-24	12-Mar-24	FPS Pump Area Wall 1 - Influent Pump Station
IPS-140	FPS Pump Area Wall 3 - Influent Pump Station	· ·	7	0%	01-Mar-24	11-Mar-24	□ FPS Pump Area Wall 3 - Influent Pump Station
IPS-150	FPS Slab on Grade 1 EL 619.00 - Influent Pump Station	15 1	15	0%	01-Mar-24	21-Mar-24	FPS Slab on Grade 1 EL 619.00 - Influent Pump Station
IPS-160	FPS Pump Area Wall 4 - Influent Pump Station	7	7	0%	12-Mar-24	20-Mar-24	☐ FPS Pump Area Wall 4 - Influent Pump Station
IPS-170	FPS Pump Area Wall 5 - Influent Pump Station	7	7	0%	21-Mar-24	01-Apr-24	FPS Pump Area Wall 5 - Influent Pump Station
IPS-180	FPS Pump Area Wall 6 - Influent Pump Station	·		0%	02-Apr-24	10-Apr-24	FPS Pump Area Wall 6 - Influent Pump Station



Remaining Work

Milestone





City of Sherman WW	VTP - CMAR Baseline Schedule - LIVE	ALL A	CTIVITIE	S			DATA DATE: 30-Sep-23
Activity ID	Activity Name	OD	RD	% Comp	Start	Finish	2024 2025
							O N D J F M A M J Jul A S O N D J F M A M J Jul A S C
IPS-190	FPS Pump Area Wall 7 - Influent Pump Station	7	7	0%	11-Apr-24	19-Apr-24	□ FPS Pump Area Wall 7 - Influent Pump Station
IPS-220	FPS Slab on Grade 2 EL 619.00 - Influent Pump Sta	tion 10	10	0%	06-May-24	17-May-24	☐ FPS Slab on Grade 2 EL 619:00 - Influent Pump Station
IPS-230	FPS Screan Area Wall 1 - Influent Pump Station	10	10	0%	20-May-24	03-Jun-24	☐ FPS Screan Area Wall 1 - Influent Pump Station
IPS-250	FPS Screan Area Wall 2 - Influent Pump Station	10	10	0%	04-Jun-24	17-Jun-24	☐ FP\$ Screan Area Wall 2 - Influent Pump Station
IPS-260	FPS Screan Area Wall 3 - Influent Pump Station	10	10	0%	18-Jun-24	01-Jul-24	☐ FPS Screan Area Wall 3 - Influent Pump Station
IPS-290	FPS Screan Area Wall 4 - Influent Pump Station	7	7	0%	02-Jul-24	12-Jul-24	☐ FPS Screan Area Wall 4 - Influent Pump Station
IPS-300	FPS Screan Area Wall 5 - Influent Pump Station	7	7	0%	15-Jul-24	23-Jul-24	□ FPS Screan Area Wall 5 - Influent Pump Station
IPS-310	FPS Screan Area Wall 6 - Influent Pump Station	7	7	0%	24-Jul-24	01-Aug-24	☐ FPS Screan Area Wall 6 - Influent Pump Station
IPS-320	FPS Screan Area Wall 7 - Influent Pump Station	7	7	0%	02-Aug-24	12-Aug-24	☐ FPS Screan Area Wall 7 - Influent Pump Station
IPS-330	FPS Decks - Influent Pump Station	30	30	0%	13-Aug-24	27-Sep-24	FPS Decks - Influent Pump Station
IPS-340	Install Misc Metals - Influent Pump Station	16	16	0%	30-Sep-24	25-Oct-24	Install Misc Metals - Influent Pump Station
IPS-360	Install Bridge Crane - Influent Pump Station	10	10	0%	30-Sep-24	11-Oct-24	☐ Install Bridge Crane - Influent Pump Station
IPS-380	Install Concrete slopes - Influent Pump Station	5	5	0%	14-Oct-24	18-Oct-24	📗 Install Concrete slopes - Influent Pump Stat
IPS-410	FPS Slab on Grade 3 EL 635.50 - Influent Pump Sta	tion 5	5	0%	28-Oct-24	01-Nov-24	p FPS Slab on Grade 3 EL 635.50 - Influen
Mechanical		147			20-May-24	18-Dec-24	
IPS-240	Install Slide Gates (Typ 6) - Influent Pump Station	20	20	0%	20-May-24	17-Jun-24	Install Slide Gates (Typ 6) - Influent Pump Station
IPS-270	Install Coarse Screens (Typ 2) - Influent Pump Statio		5	0%	18-Jun-24	24-Jun-24	☐ Install Coarse Screens (Typ 2) - Influent Pump Station
IPS-280	Install Screening Washer Compactors (Typ 2) - Influ		5	0%	25-Jun-24	01-Jul-24	☐ Install Screening Washer Compactors (Typ 2) - Influent F
IPS-390	Install Submersible Pump Base 90's and Risers (Typ	·	5	0%	21-Oct-24	28-Oct-24	☐ Install Submersible Pump Base 90's and F
IPS-420	Install Submersible Pump's (Typ 4) - Influent Pump 9	·	5	0%	29-Oct-24	04-Nov-24	☐ Install Submersible Pump's (Typ 4) - Influ
IPS-430	Install RS Header Pipe and Valves- Influent Pump St		24	0%	07-Nov-24	18-Dec-24	Install RS Header Pipe and Valves-
Electrical & I&	·	59	50	070	28-Oct-24	23-Jan-25	
IPS-400	Install Underslab/Inslab Electrical - Influent Pump Sta	ation 7	7	0%	28-Oct-24	07-Nov-24	☐ Install Underslab/Inslab Electrical - Influer
IPS-440	Install Electrical Equipment - Influent Pump Station	20	20	0%	08-Nov-24	13-Dec-24	Install Electrical Equipment - Influent
IPS-450	Install Electrical Conduit - Influent Pump Station	25	25	0%	26-Nov-24	09-Jan-25	Install Electrical Conduit - Influent
IPS-460	Install Lighting - Influent Pump Station	5	5	0%	26-Nov-24	05-Dec-24	☐ Install Lighting - Influent Pump Station
IPS-470	Install Instrumentation - Influent Pump Station	10	10	0%	19-Dec-24	05-Dec-24 06-Jan-25	☐ Install Instrumentation - Influent P
IPS-480	Pull & Terminate Wire - Influent Pump Station		15	0%	31-Dec-24	23-Jan-25	Pull & Terminate Wire - Influent
	eatment (Priority 2 Improvements)	15	218	U70	06-Feb-24	23-Jan-23 16-Dec-24	The state of the s
				00/			☐ Functional Testing - Headworks
PTRT-280	Functional Testing - Headworks	5	5	0%	09-Dec-24	16-Dec-24	Turicuorian resultig - rieadworks
Civil			23		06-Feb-24	14-Mar-24	Everytte and Cultured a Drob Handureds
PTRT-100	Excavate and Subgrade Prep - Headworks	9	9	0%	06-Feb-24	20-Feb-24	Excavate and Subgrade Prep - Headworks
PTRT-110	Install Underslab Piping - Headworks	14	14	0%	22-Feb-24	14-Mar-24	Install Underslab Piping - Headworks
Structural		93			15-Mar-24	20-Aug-24	
PTRT-130	FPS Slab on Grade - Headworks	14	14	0%	15-Mar-24	08-Apr-24	FPS Slab on Grade - Headworks
PTRT-140	FPS Walls - Headworks	33	33	0%	09-Apr-24	04-Jun-24	FPS Walls - Headworks
PTRT-160	FPS Decks - Headworks	30	30	0%	06-Jun-24	25-Jul-24	FPS Decks - Headworks
PTRT-180	Install Misc Metals - Headworks	16	16	0%	26-Jul-24	20-Aug-24	Install Misc Metals - Headworks
Mechanical		82	82		05-Jun-24	01-Oct-24	
PTRT-150	Install Gates (Typ 7) - Headworks	5	5	0%	05-Jun-24	11-Jun-24	□ Install Gates (Typ 7) - Headworks
PTRT-170	Install Fine Screens (Typ 2) - Headworks	15	15	0%	26-Jul-24	19-Aug-24	Install Fine Screens (Typ 2) - Headworks
PTRT-190	Install Grit Classifiers (Typ 2) - Headworks	5	5	0%	20-Aug-24	26-Aug-24	□ Install Grit Classifiers (Typ 2) - Headworks
PTRT-210	Install Fine Screens Conveyor - Headworks	5	5	0%	27-Aug-24	03-Sep-24	☐ Install Fine Screens Conveyor - Headworks
PTRT-220	Install Grit Pumps (Typ 2) - Headworks	5	5	0%	04-Sep-24	10-Sep-24	□ Install Grit Pumps (Typ 2) - Headworks
Remaining	Level of Effort						



Remaining Work

Milestone

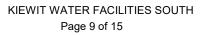


•	FP - CMAR Baseline Schedule - LIVE	ALL AC	TIVITIE				DATA DATE: 30-Sep-2
tivity ID	Activity Name	OD	RD	% Comp	Start	Finish	2024 2025
DTDT 010	WOD TO DO I I I I I I I I I I I I I I I I I I			201			O N D J F M A M J Jul A S O N D J F M A M J Jul A S
PTRT-240	4"/GR/DI Piping - Headworks	9	9	0%	12-Sep-24	24-Sep-24	□ 4"/GR/DI Piping - Headworks □ 2"/PW/PVC Piping - Headworks
PTRT-250	2"/PW/PVC Piping - Headworks	5	5	0%	25-Sep-24	01-Oct-24	U 2/FW/FVO FIPING - Headworks
Electrical & I&C	la stall la develop //periode Clastical Librarios	200		00/	22-Feb-24	06-Dec-24	☐ Install Underslab/Inslab Electrical - Headworks
PTRT-120	Install Underslab/Inslab Electrical - Headworks	9	9	0%	22-Feb-24	05-Mar-24	Install Electrical Equipment - Headworks
PTRT-200	Install Electrical Equipment - Headworks	11	11	0%	22-Aug-24	06-Sep-24	Install Conduit - Headworks
PTRT-230	Install Conduit - Headworks	38	38	0%	09-Sep-24	11-Nov-24	nstall Instrumentation - Headworks
PTRT-260	Install Instrumentation - Headworks	5	5	0%	02-Oct-24	08-Oct-24	Pull & Terminate Wire - Headworks
PTRT-270	Pull & Terminate Wire - Headworks	14	14	0%	12-Nov-24	06-Dec-24	I full & left little wife - i leadworks
	nk (Priority 2 Improvements)	231	231	20/	22-Feb-24	23-Jan-25	- Understant Table FO Table
EQT-170	Hydrotest Tank - EQ Tank	25	25	0%	29-Jul-24	30-Aug-24	Hydrotest Tank - EQ Tank
EQT-190	Install Supply/Exhaust Fans - EQ Tank	5	5	0%	03-Oct-24	09-Oct-24	Install Supply/Exhaust Fans - EQ Tank
EQT-290	Functional Testing - EQ Tank	5	5	0%	16-Jan-25	23-Jan-25	☐ Functional Testing - EQ Tank
Civil		97	97		22-Feb-24	05-Aug-24	Fuebvete and Cubarada Prop. FO Table
EQT-100	Excavate and Subgrade Prep - EQ Tank	10	10	0%	22-Feb-24	07-Mar-24	Excavate and Subgrade Prep - EQ Tank
EQT-150	Backfill Walls - EQ Tank	5	5	0%	29-Jul-24	05-Aug-24	t Backfill Walls - EQ Tank
Structural		144			08-Mar-24	02-Oct-24	
EQT-110	FPS Slab on Grade (Including Inslab Piping and Electrical) - EQ Tank	13	13	0%	08-Mar-24	28-Mar-24	FPS Slab on Grade (Including Inslab Piping and Electrical) - EQ Ta
EQT-120	Install Shoring for Deck - EQ Tank	5	5	0%	01-Apr-24	05-Apr-24	Install Shoring for Deck - EQ Tank
EQT-130	Install Wire Wrapped and Shotcrete Walls - EQ Tank	33	33	0%	08-Apr-24	03-Jun-24	Install Wire Wrapped and Shotcrete Walls - EQ Tank
EQT-140	FPS Decks - EQ Tank	32	32	0%	04-Jun-24	26-Jul-24	FPS Decks - EQ Tank
EQT-180	Install Misc Metals - EQ Tank	20	20	0%	03-Sep-24	02-Oct-24	Install Misc Metals - EQ Tank
Mechanical		31	31		12-Nov-24	31-Dec-24	
EQT-210	Install Large Bubble-Pulse Mixing System - EQ Tank	9	9	0%	12-Nov-24	27-Nov-24	☐ Install Large Bubble-Pulse Mixing Sy
EQT-220	4"/ALP/SS to Large Bubble-Pulse Mixing System - EQ Tank	10	10	0%	27-Nov-24	17-Dec-24	4"/ALP/SS to Large Bubble-Pulse
EQT-230	Install Air Compressors - EQ Tank	5	5	0%	27-Nov-24	06-Dec-24	□ Install Air Compressors - EQ Tank
EQT-240	Install Air Reciever Tanks - EQ Tank	5	5	0%	06-Dec-24	13-Dec-24	☐ Install Air Reciever Tanks - EQ Tan
EQT-250	Install Washdown Nozzels	5	5	0%	13-Dec-24	20-Dec-24	☐ Install Washdown Nozzels
EQT-260	2"/PW/SS to Washdown Nozzels	5	5	0%	20-Dec-24	31-Dec-24	☐ 2"/PW/SS to Washdown Nozze
Electrical & I&C			117		29-Jul-24	15-Jan-25	
EQT-160	Install Electrical Equipment - EQ Tank	43	43	0%	29-Jul-24	03-Oct-24	Install Electrical Equipment - EQ Tank
EQT-200	Install Conduit - EQ Tank	5	5	0%	04-Oct-24	10-Oct-24	□ Install Conduit - EQ Tank
EQT-270	Install Instrumentation - EQ Tank	5	5	0%	31-Dec-24	08-Jan-25	□ Install Instrumentation - EQ Tan
EQT-280	Pull/Term W ire - EQ Tank	5	5	0%	08-Jan-25	15-Jan-25	□ Pull/Term Wire - EQ Tank
Biological Reac	tor Basin (Priority 1 Improvements)	295	295		15-Dec-23	18-Feb-25	
BIORB-850	Hydrotest Structure - Aeration Basin	10	10	0%	07-Nov-24	20-Nov-24	■ Hydrotest Structure - Aeration Basin
BIORB-1030	Functional Testing - Aeration Basin	5	5	0%	11-Feb-25	18-Feb-25	■ Functional Testing - Aeration
Civil		129	129		15-Dec-23	25-Jul-24	
BIORB-100	Excavate and Subgrade Prep - Aeration Basin	15	15	0%	15-Dec-23	11-Jan-24	Excavate and Subgrade Prep - Aeration Basin
BIORB-520	Backfill Walls - Aeration Basin	4	4	0%	18-Jul-24	25-Jul-24	□ Backfill Walls - Aeration Basin
Structural		229	229		12-Jan-24	06-Dec-24	
BIORB-110	FPS Slab on Grade 1 - Aeration Basin	10	10	0%	12-Jan-24	29-Jan-24	FPS Slab on Grade 1 - Aeration Basin
BIORB-120	FPS Slab on Grade 2 - Aeration Basin	10	10	0%	30-Jan-24	12-Feb-24	FPS Slab on Grade 2 - Aeration Basin
BIORB-130	FPS Slab on Grade 3 - Aeration Basin	5	5	0%	13-Feb-24	19-Feb-24	■ FPS Slab on Grade 3 - Aeration Basin
BIORB-140	FPS Slab on Grade 4 - Aeration Basin	5	5	0%	20-Feb-24	26-Feb-24	FPS Slab on Grade 4 - Aeration Basin



Remaining Work

Milestone

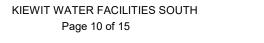




<u> </u>	TP - CMAR Baseline Schedule - LIVE	ALL ACTIVI				DATA DATE: 30-Se
ity ID	Activity Name	OD RI	D % Co	p Start	Finish	2024 2025 O N D J F M A M J Jul A S O N D J F M A M J Jul A
BIORB-150	FPS Slab on Grade 5 - Aeration Basin	5 5	5 0%	27-Feb-24	04-Mar-24	FPS Slab on Grade 5 - Aeration Basin
BIORB-160	FPS Slab on Grade 6 - Aeration Basin	5 5		05-Mar-24	11-Mar-24	FPS Slab on Grade 6 - Aeration Basin
BIORB-170	FPS Walls 1 - Aeration Basin	5 5		12-Mar-24	19-Mar-24	FPS Walls 1 - Aeration Basin
BIORB-180	FPS Slab on Grade 7 - Aeration Basin	5 5		12-Mar-24	19-Mar-24	FPS Slab on Grade 7 - Aeration Basin
BIORB-190	FPS Slab on Grade 8 - Aeration Basin	5 5		19-Mar-24	25-Mar-24	☐ FPS Slab on Grade 8 - Aeration Basin
BIORB-200	FPS Walls 2 - Aeration Basin	5 5		21-Mar-24	27-Mar-24	FPS Walls 2 - Aeration Basin
BIORB-210	FPS Slab on Grade 9 - Aeration Basin	5 5		26-Mar-24	02-Apr-24	PPS Slab on Grade 9 - Aeration Basin
BIORB-220	FPS Walls 3 - Aeration Basin	5 5		28-Mar-24	02-Apr-24 04-Apr-24	FPS Walls 3 - Aeration Basin
BIORB-230	FPS Slab on Grade 10 - Aeration Basin	5 5		03-Apr-24	09-Apr-24	FPS Slab on Grade 10 - Aeration Basin
BIORB-240	FPS Walls 4 - Aeration Basin	5 5		05-Apr-24	11-Apr-24	FPS Walls 4 - Aeration Basin
BIORB-250	FPS Slab on Grade 11 - Aeration Basin			<u> </u>	<u> </u>	☐ FP\$ Slab on Grade 11 - Aeration Basin
		5 5		10-Apr-24	16-Apr-24	FPS Walls 5 - Aeration Basin
BIORB-260	FPS Walls 5 - Agration Basin	5 5		12-Apr-24	18-Apr-24	FP\$ Wals 6 - Aeration Basin
BIORB-270	FPS Walls 6 - Aeration Basin	5 5		12-Apr-24	18-Apr-24	PPS Slab on Grade 12 - Aeration Basin
BIORB-280	FPS Slab on Grade 12 - Aeration Basin	5 5		17-Apr-24	23-Apr-24	FPS Walls 7 - Aeration Basin
BIORB-290	FPS Walls 7 - Aeration Basin	5 5		19-Apr-24	25-Apr-24	FPS Walls 8 - Aeration Basin
BIORB-300	FPS Walls 8 - Aeration Basin	5 5		19-Apr-24	25-Apr-24	
BIORB-310	FPS Walls 9 - Aeration Basin	5 5		26-Apr-24	02-May-24	FPS Walls 10 - Aeration Basin
BIORB-320	FPS Walls 10 - Aeration Basin	5 5		26-Apr-24	02-May-24	FPS Walls 11 - Aeration Basin
BIORB-330	FPS Walls 11 - Aeration Basin	5 5		03-May-24	09-May-24	FPS.Wals 11 - Aeration Basin
BIORB-340	FPS Walls 12 - Aeration Basin	5 5		03-May-24	09-May-24	
BIORB-350	FPS Walls 13 - Aeration Basin	5 5		10-May-24	16-May-24	
BIORB-360	FPS Walls 14 - Aeration Basin	5 5		17-May-24	23-May-24	FPS Walls 14 - Aeration Basin
BIORB-370	FPS Walls 15 - Aeration Basin	5 5		24-May-24	31-May-24	■ FPS Walls 15 - Aeration Basin
BIORB-380	FPS Walls 16 - Aeration Basin	5 5		24-May-24	31-May-24	■ FPS Walls 16 - Aeration Basin
BIORB-390	FPS Walls 17 - Aeration Basin	5 5		03-Jun-24	07-Jun-24	FPS Walls 17 - Aeration Basin
BIORB-400	FPS Walls 18 - Aeration Basin	5 5		03-Jun-24	07-Jun-24	■ FPS Walls 18 - Aeration Basin
BIORB-410	FPS Walls 19 - Aeration Basin	5 5	5 0%	10-Jun-24	14-Jun-24	■ FPS Walls 19 - Aeration Basin
BIORB-420	FPS Walls 20 - Aeration Basin	5 5	5 0%	10-Jun-24	14-Jun-24	■ FPS Walls 20 - Aeration Basin
BIORB-430	FPS Walls 21 - Aeration Basin	5 5	5 0%	17-Jun-24	21-Jun-24	■ FPS Walls 21 - Aeration Basin
BIORB-440	FPS Walls 22 - Aeration Basin	5 5	5 0%	17-Jun-24	21-Jun-24	FPS Walls 22 - Aeration Basin
BIORB-450	FPS Walls 23 - Aeration Basin	5 5	5 0%	24-Jun-24	28-Jun-24	
BIORB-460	FPS Walls 24 - Aeration Basin	5 5	5 0%	24-Jun-24	28-Jun-24	FPS Walls 24 - Aeration Basin
BIORB-470	FPS Walls 25 - Aeration Basin	5 5	0%	01-Jul-24	09-Jul-24	■ FPS Walls 25 - Aeration Basin
BIORB-480	FPS Walkway 1 - Aeration Basin	5 5	5 0%	10-Jul-24	16-Jul-24	■ FPS Walkway 1 - Aeration Basin
BIORB-490	FPS Walls 26 - Aeration Basin	5 5	0%	10-Jul-24	16-Jul-24	FPS Walls 26 - Aeration Basin
BIORB-500	FPS Walls 27 - Aeration Basin	5 5	5 0%	17-Jul-24	23-Jul-24	☐ FPS Walls 27 - Aeration Basin
BIORB-510	FPS Walkway 2 - Aeration Basin	5 5	0%	17-Jul-24	23-Jul-24	■ FPS Walkway 2 - Aeration Basin
BIORB-530	FPS Walls 28 - Aeration Basin	5 5	5 0%	24-Jul-24	30-Jul-24	☐ FPS Walls 28 - Aeration Basin
BIORB-540	FPS Walkway 3 - Aeration Basin	5 5	5 0%	24-Jul-24	30-Jul-24	■ FPS Walkway 3 - Aeration Basin
BIORB-550	Install Misc Metals - Aeration Basin	5 5	5 0%	25-Jul-24	01-Aug-24	☐ Install Misc Metals - Aeration Basin
BIORB-560	FPS Walls 29 - Aeration Basin	5 5	0%	31-Jul-24	06-Aug-24	☐ FPS Walls 29 - Aeration Basin
BIORB-570	FPS Walkway 4 - Aeration Basin	5 5		31-Jul-24	06-Aug-24	■ FPS Walkway 4 - Aeration Basin
BIORB-580	FPS Walls 30 - Aeration Basin	5 5		07-Aug-24	13-Aug-24	☐ FPS Walls 30 - Aeration Basin
BIORB-590	FPS Walkway 5 - Aeration Basin	5 5		07-Aug-24	13-Aug-24	■ FPS Walkway 5 - Aeration Basin









,	TP - CMAR Baseline Schedule - LIVE	_	CTIVITIE				DATA DATE: 30-Se
ivity ID	Activity Name	OD	RD	% Comp	Start	Finish	2024 2025
		_		201			O N D J F M A M J Jul A S O N D J F M A M J Jul A S
BIORB-600	FPS Walls 31 - Aeration Basin	5	5	0%	14-Aug-24	20-Aug-24	□ FPS Walkway 6 - Aeration Basin
BIORB-610	FPS Walkway 6 - Aeration Basin	5	5	0%	14-Aug-24	20-Aug-24	□ FPS Walls 32 - Aeration Basin
BIORB-620	FPS Walls 32 - Aeration Basin	5	5	0%	21-Aug-24	27-Aug-24	FPS Walkway 7 - Aeration Basin
BIORB-630	FPS Walkway 7 - Aeration Basin	5	5	0%	21-Aug-24	27-Aug-24	
BIORB-640	FPS Walls 33 - Aeration Basin	5	5	0%	28-Aug-24	04-Sep-24	FPS Walls 33 - Aeration Basin
BIORB-650	FPS Walkway 8 - Aeration Basin	5	5	0%	28-Aug-24	04-Sep-24	FPS Walkway 8 - Aeration Basin
BIORB-660	FPS Walls 34 - Aeration Basin	5	5	0%	05-Sep-24	11-Sep-24	☐ FPS Walls 34 - Aeration Basin
BIORB-670	FPS Walkway 9 - Aeration Basin	5	5	0%	05-Sep-24	11-Sep-24	■ FPS Walkway 9 - Aeration Basin
BIORB-680	FPS Walls 35 - Aeration Basin	5	5	0%	12-Sep-24	18-Sep-24	PPS Walls 35 - Aeration Basin
BIORB-690	FPS Walkway 10 - Aeration Basin	5	5	0%	12-Sep-24	18-Sep-24	■ FPS Walkway 10 - Aeration Basin
BIORB-700	FPS Walls 36 - Aeration Basin	5	5	0%	19-Sep-24	25-Sep-24	FPS Walls 36 - Aeration Basin
BIORB-710	FPS Walkway 11 - Aeration Basin	5	5	0%	19-Sep-24	25-Sep-24	■ FPS Walkway 11 - Aeration Basin
BIORB-720	FPS Walls 37 - Aeration Basin	5	5	0%	26-Sep-24	02-Oct-24	☐ FPS Walls 37 - Aeration Basin
BIORB-730	FPS Walkway 12 - Aeration Basin	5	5	0%	26-Sep-24	02-Oct-24	
BIORB-740	FPS Walls 38 - Aeration Basin	5	5	0%	03-Oct-24	09-Oct-24	☐ FPS Walls 38 - Aeration Basin
BIORB-750	FPS Walkway 13 - Aeration Basin	5	5	0%	03-Oct-24	09-Oct-24	■ FPS Walkway 13 - Aeration Basin
BIORB-760	FPS Walls 39 - Aeration Basin	5	5	0%	10-Oct-24	16-Oct-24	☐ FPS Walls 39 - Aeration Basin
BIORB-770	FPS Walkway 14 - Aeration Basin	5	5	0%	10-Oct-24	16-Oct-24	■ FPS Walkway 14 - Aeration Basin
BIORB-780	FPS Walkway 15 - Aeration Basin	5	5	0%	17-Oct-24	23-Oct-24	■ FPS Walkway 15 - Aeration Basin
BIORB-790	FPS Walkway 16 - Aeration Basin	5	5	0%	17-Oct-24	23-Oct-24	■ FPS Walkway 16 - Aeration Basin
BIORB-800	FPS Walkway 17 - Aeration Basin	5	5	0%	24-Oct-24	30-Oct-24	■ FPS Walkway 17 - Aeration Basin
BIORB-810	FPS Walkway 18 - Aeration Basin	5	5	0%	24-Oct-24	30-Oct-24	■ FPS Walkway 18 - Aeration Basin
BIORB-820	Install Misc Metals - Aeration Basin	30	30	0%	24-Oct-24	06-Dec-24	Install Misc Metals - Aeration Basi
BIORB-830	FPS Walkway 19 - Aeration Basin	5	5	0%	31-Oct-24	06-Nov-24	■ FPS Walkway 19 - Aeration Basin
BIORB-840	FPS Walkway 20 - Aeration Basin	5	5	0%	31-Oct-24	06-Nov-24	■ FPS Walkway 20 - Aeration Basin
Mechanical		48	48		21-Nov-24	03-Feb-25	
BIORB-860	Install Mixers - Aeration Basin	9	9	0%	21-Nov-24	06-Dec-24	Install Mixers - Aeration Basin
BIORB-870	Install MLSS Return Pumps - Aeration Basin	5	5	0%	21-Nov-24	27-Nov-24	☐ Install MLSS Return Pumps - Aera
BIORB-880	20"/16"/12"/ALP/SS Header Piping - Aeration Basin	15	15	0%	02-Dec-24	27-Dec-24	20"/16"/12"/ALP/SS Header Pi
BIORB-890	16"/MLSS/DIP Pump to MLSS Channel Train 1 - Aeration Basin	5	5	0%	02-Dec-24	06-Dec-24	1 16"/MLSS/DIP Pump to MLSS CI
BIORB-910	16"/MLSS/DIP Pump to MLSS Channel Train 2 - Aeration Basin	5	5	0%	09-Dec-24	13-Dec-24	☐ 16"/MLSS/DIP Pump to MLSS C
BIORB-920	16"/MLSS/DIP Pump to MLSS Channel Train 3 - Aeration Basin	5	5	0%	16-Dec-24	20-Dec-24	☐ 16"/MLSS/DIP Pump to MLSS
BIORB-930	16"/MLSS/DIP Pump to MLSS Channel Train 4 - Aeration Basin	5	5	0%	23-Dec-24	31-Dec-24	☐ 16"/MLSS/DIP Pump to MLSS
BIORB-940	·					06-Jan-25	■ 12"/10"/8"/ALP/SS Header Pi
BIORB-950	12"/10"/8"/ALP/SS Header Piping Train 1 - Aeration Basin Insatll Diffuser Piping Train 1 - Aeration Basin	5	5 5	0% 0%	30-Dec-24 07-Jan-25	13-Jan-25	☐ Insatll Diffuser Piping Train 1
							12"/10"/8"/ALP/SS Header F
BIORB-960	12"/10"/8"/ALP/SS Header Piping Train 2 - Aeration Basin	5	5	0%	07-Jan-25	13-Jan-25	☐ Insatll Diffuser Piping Train 2
BIORB-970	Insatll Diffuser Piping Train 2 - Aeration Basin	5	5	0%	14-Jan-25	20-Jan-25	■ 12"/10"/8"/ALP/SS Header
BIORB-980	12"/10"/8"/ALP/SS Header Piping Train 3- Aeration Basin	5	5	0%	14-Jan-25	20-Jan-25	☐ Insatll Diffuser Piping Train
BIORB-990	Insatll Diffuser Piping Train 3 - Aeration Basin	5	5	0%	21-Jan-25	27-Jan-25	□ 12"/10"/8"/ALP/SS Header
BIORB-1000	12"/10"/8"/ALP/SS Header Piping Train 4 - Aeration Basin	5	5	0%	21-Jan-25	27-Jan-25	
BIORB-1010	2"/ALP/SS Piping - Aeration Basin	5	5	0%	28-Jan-25	03-Feb-25	2'/ALP/SS Piping - Aeratic
BIORB-1020	Insatll Diffuser Piping Train 4 - Aeration Basin	5	5	0%	28-Jan-25	03-Feb-25	☐ Insatll Diffuser Piping Train
Electrical & I&C		40	40		03-Dec-24	10-Feb-25	
BIORB-900	Install Electrical Equipment / Conduit / Pull & Terminate Wire - Aeration Basin	40	40	0%	03-Dec-24	10-Feb-25	Install Electrical Equipme



Remaining Work

Milestone

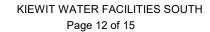


City of Sherman WWT	P - CMAR Baseline Schedule - LIVE	ALL AC	TIVITIE	S			DATA DATE: 30-Sep-2
ivity ID	Activity Name	OD	RD	% Comp	Start	Finish	2024 2025
							O N D J F M A M J Jul A S O N D J F M A M J Jul A S
	(Priority 2 Improvements)				18-Apr-24	30-Jan-25	
BLOWB-240	Functional Testing - Blower Building	9	9	0%	16-Jan-25	30-Jan-25	☐ Functional Testing - Blower t
Civil		5	5		18-Apr-24	24-Apr-24	
BLOWB-100	Excavate and Subgrade Prep - Blower Building	5	5	0%	18-Apr-24	24-Apr-24	Excavate and Subgrade Prep - Blower Building
Architectural		67			28-May-24	30-Aug-24	
BLOWB-120	Masonry Wals - Blower Building	33	33	0%	28-May-24	22-Jul-24	Masonry Wals - Blower Building
BLOWB-130	Install Roof - Blower Building	16	16	0%	23-Jul-24	16-Aug-24	Install Roof - Blower Building
BLOWB-150	Install Doors - Blower Building	5	5	0%	19-Aug-24	23-Aug-24	Install Doors - Blower Building
BLOWB-160	Install Windows - Blower Building	5	5	0%	26-Aug-24	30-Aug-24	Install Windows - Blower Building
Structural		72	72		25-Apr-24	26-Aug-24	
BLOWB-110	FPS Slab on Grade (Including Inslab Piping and Electrical) - Blower Bu		18	0%	25-Apr-24	24-May-24	FPS Slab on Grade (Including Inslab Piping and Electrical)
BLOWB-140	Install Misc Metals - Blower Building	5	5	0%	19-Aug-24	26-Aug-24	□ Install Misc Metals - Blower Building
Mechanical		25	25		12-Nov-24	30-Dec-24	
BLOWB-210	Install Blowers (Typ 3) - Blower Building	9	9	0%	12-Nov-24	27-Nov-24	☐ Install Blowers (Typ 3) - Blower Buil
BLOWB-220	20"/16"/12"/ALP/SS Blower Header Piping - Blower Building	20	20	0%	21-Nov-24	30-Dec-24	20"/16"/12"/ALP/SS Blower Hea
Electrical & I&C		72	72		12-Sep-24	14-Jan-25	
BLOWB-170	Install Electrical Equipment - Blower Building	19	19	0%	12-Sep-24	11-Oct-24	Install Electrical Equipment - Blower Buildi
BLOWB-180	Conduit/Pull & Terminate Wire - Blower Building	53	53	0%	14-Oct-24	14-Jan-25	Conduit/Pull & Terminate Wire
HVAC		55	55		14-Oct-24	03-Jan-25	
BLOWB-190	Install HVAC Equipment Outdoor - Blower Building	15	15	0%	14-Oct-24	01-Nov-24	Install HVAC Equipment Outdoor - Blov
BLOWB-200	Install HVAC Equipment Indoor - Blower Building	15	15	0%	04-Nov-24	22-Nov-24	☐ Install HVAC Equipment Indoor - Blo
BLOWB-230	Install HVAC Ductwork - Blower Building	25	25	0%	25-Nov-24	03-Jan-25	Install HVAC Ductwork - Blowe
Membrane Basi	ns (Priority 2 Improvements)	249	249		04-Jan-24	30-Dec-24	
MBR-480	Functional Testing - Membrane Basins	14	14	0%	03-Dec-24	30-Dec-24	Functional Testing - Membrane
Civil		110	110		04-Jan-24	09-Jul-24	
MBR-100	Excavate and Subgrade Prep - Membrane Basins	7	7	0%	04-Jan-24	15-Jan-24	☐ Excavate and Subgrade Prep - Membrane Basins
MBR-360	Backfill Walls - Membran e Basins	9	9	0%	17-Jun-24	02-Jul-24	Backfill Walls - Membran e Basins
MBR-400	E/L/B 10"/D/DIP - Membrane Basins	4	4	0%	02-Jul-24	09-Jul-24	☐ E/L/B 10"/D/DIP - Membrane Basins
Structural		106	106		15-Feb-24	18-Jul-24	
MBR-110	FPS Slab on Grade 1 - Membrane Basins	10	10	0%	15-Feb-24	01-Mar-24	FPS Slab on Grade 1 - Membrane Basins
MBR-120	FPS Slab on Grade 2 - Membrane Basin	10	10	0%	15-Feb-24	29-Feb-24	☐ FPS Slab on Grade 2 - Membrane Basin
MBR-130	FPS Slab on Grade 3 - Membrane Basin	10	10	0%	29-Feb-24	14-Mar-24	☐ FPS Slab on Grade 3 - Membrane Basin
MBR-140	FPS Slab on Grade 4 - Membrane Basin	10	10	0%	29-Feb-24	14-Mar-24	FPS Slab on Grade 4 - Membrane Basin
MBR-150	FPS Slab on Grade 5 - Membrane Basin	5	5	0%	14-Mar-24	21-Mar-24	☐ FPS Slab on Grade 5 - Membrane Basin
MBR-160	FPS Slab on Grade 6 - Membrane Basin	5	5	0%	14-Mar-24	21-Mar-24	FPS Slab on Grade 6 - Membrane Basin
MBR-170	FPS Walls 1 - Membrane Basins	10	10	0%	21-Mar-24	08-Apr-24	FPS Walls 1 - Membrane Basins
MBR-180	FPS Slab on Grade 7 - Membrane Basin	5	5	0%	21-Mar-24	28-Mar-24	FPS Slab on Grade 7 - Membrane Basin
MBR-190	FPS Slab on Grade 8 - Membrane Basin	5	5	0%	21-Mar-24	28-Mar-24	☐ FPS Slab on Grade 8 - Membrane Basin
MBR-200	FPS Walls 2 - Membrane Basin	10	10	0%	21-Mar-24	08-Apr-24	FPS Walls 2 - Membrane Basin
MBR-210	FPS Slab on Grade 9 - Membrane Basin	5	5	0%	28-Mar-24	05-Apr-24	□ FPS Slab on Grade 9 - Membrane Basin
MBR-220	FPS Walls 3 - Membrane Basin	7	7	0%	08-Apr-24	17-Apr-24	☐ FPS Walls 3 - Membrane Basin
MBR-230	FPS Walls 4 - Membrane Basin	7	7	0%	08-Apr-24	17-Apr-24	☐ FPS Walls 4 - Membrane Basin
MBR-240	FPS Walls 5 - Membrane Basin	7	7	0%	17-Apr-24	26-Apr-24	☐ FPS Walls 5 - Membrane Basin



Remaining Work

Milestone



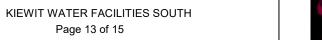


City of Sherman WW1	TP - CMAR Baseline Schedule - LIVE	ALL ACTIVI	ITIES				DATA DATE: 30-Sep-2
tivity ID	Activity Name	OD RI	D % C	Comp	Start	Finish	2024 2025
							O N D J F M A M J Jul A S O N D J F M A M J Jul A S
MBR-260	FPS Walls 7 - Membrane Basin	7 7)%	26-Apr-24	07-May-24	FPS Walls 7 - Membrane Basin
MBR-270	FPS Walls 8 - Membrane Basin	7 7)%	26-Apr-24	07-May-24	☐ FPS Walls 8 - Membrane Basin
MBR-280	FPS Walls 9 - Membrane Basin	7 7		0%	07-May-24	16-May-24	☐ FPS Walls 9 - Membrane Basin
MBR-290	FPS Walls 10 - Membrane Basin	7 7)%	07-May-24	16-May-24	□ FPS Walls 10 - Membran e Basin
MBR-300	FPS Walls 11 - Membrane Basin	7 7		0%	16-May-24	28-May-24	FPS Walls 11 - Membrane Basin
MBR-310	FPS Walls 12 - Membrane Basin	7 7		0%	16-May-24	28-May-24	FPS Walls 12 - Membrane Basin
MBR-320	FPS Walls 13 - Membrane Basin	7 7		0%	28-May-24	06-Jun-24	☐ FPS Walls 13 - Membrane Basin
MBR-330	FPS Walls 14 - Membrane Basin	7 7		0%	28-May-24	06-Jun-24	☐ FPS Walls 14 - Membrane Basin
MBR-340	FPS Walls 15 - Membrane Basin	7 7	7 0	0%	06-Jun-24	17-Jun-24	FPS Walls 15 - Membrane Basin
MBR-350	FPS Walls 16 - Membrane Basin	7 7		0%	06-Jun-24	17-Jun-24	☐ FPS Walls 16 - Membrane Basin
MBR-390	Install Misc Metals - Membrane Basins	10 10	0 0	0%	02-Jul-24	18-Jul-24	☐ Install Misc Metals - Membrane Basins
Mechanical		85 85	5		17-Jun-24	17-Oct-24	
MBR-370	Install Gates - Membrane Basins	5 5	5 0)%	17-Jun-24	24-Jun-24	□ Install Gates - Membrane Basins
MBR-380	Filtrate Header Pipe - Membrane Basins	30 30	0 0)%	24-Jun-24	13-Aug-24	Filtrate Header Pipe - Membrane Basins
MBR-410	Install MBR Cassets - Membrane Basins	25 25	5 0	0%	13-Aug-24	20-Sep-24	Install MBR Cassets - Membrane Basins
MBR-420	10"/ALP/SS Header Pipe - Membrane Basins	30 30	0 0	0%	28-Aug-24	17-Oct-24	10"/ALP/S\$ Header Pipe - Membrane Ba
MBR-450	Install quick connects to Cassets	5 5	5 0	0%	20-Sep-24	27-Sep-24	☐ Install quick connects to Cassets
MBR-460	Install Sample Tubing - Membrane Basins	10 10	0 0)%	27-Sep-24	15-Oct-24	☐ Install Sample Tubing - Membrane Basins
Electrical & I&C		60 60	0		28-Aug-24	10-Dec-24	
MBR-430	Install Electrical Equipment - Membrane Basins	10 10	0 0)%	28-Aug-24	13-Sep-24	☐ Install Electrical Equipment - Membrane Basir
MBR-440	Install Conduit - Membrane Basins	40 40	0 0)%	13-Sep-24	21-Nov-24	Install Conduit - Membrane Basins
MBR-470	Pull & Terminate Wire - Membrane Basins	10 10	0 0)%	21-Nov-24	10-Dec-24	Pull & Terminate Wire - Membrane
Sludge Storage	Tank (Priority 2 Improvements)	94 94	4		18-Jul-24	27-Dec-24	
SST-210	Functional Testing - Sludge Storage Tank	5 5	5 0)%	17-Dec-24	27-Dec-24	☐ Functional Testing - Sludge Store
Civil	Turibustian resumg Guage Gerage Family	64 64	4	7,0	18-Jul-24	01-Nov-24	
SST-100	Excavate and Subgrade Prep - Sludge Storage Tank	5 5	5 0)%	18-Jul-24	26-Jul-24	☐ Excavate and Subgrade Prep - Sludge Storage Tar
SST-140	Backfill - Sludge Storage Tank	5 5)%	24-Oct-24	01-Nov-24	□ Backfill - Sludge Storage Tank
Structural	Dadriiii diaago didrago rariik	59 50	9	70	26-Jul-24	01-Nov-24	
SST-110	FPS Slab on Grade (Including Inslab Piping and Electrical) - Sludge Stora	ge Tank 16 16	6 0)%	26-Jul-24	22-Aug-24	FPS Slab on Grade (Including Inslab Piping and
SST-120	FPS Walls / Install Tank - Sludge Storage Tank	18 18)%	22-Aug-24	19-Sep-24	FPS Walls / Instal Tank - Sludge Storage Tar
SST-130	FPS Decks / Test Tank - Sludge Storage Tank	20 20)%	20-Sep-24	24-Oct-24	FPS Decks / Test Tank - Sludge Storage
SST-150	Install Misc Metals - Sludge Storage Tank	5 5)%	24-Oct-24	01-Nov-24	□ Install Misc Metals - Sludge Storage Tar
Mechanical	ITISIAII WISC WEIAS - Sludge Storage Tarik	10 10	9	770	12-Nov-24	17-Dec-24	
SST-180	Install Process Equipment - Sludge Storage Tank	4 4		0%	12-Nov-24	19-Nov-24	☐ Install Process Equipment - Sludge St
SST-190	Install Process Piping - Sludge Storage Tank	15 15)%	19-Nov-24	17-Dec-24	Install Process Piping - Sludge Sto
Electrical & I&C	, , , , , , , , , , , , , , , , , , , ,	20 20		J 70	01-Nov-24	09-Dec-24	
SST-160	Install Electrical Equipment - Sludge Storage Tank	5 5)%	01-Nov-24	11-Nov-24	☐ Install Electrical Equipment - Sludge Sto
SST-100	Install Conduit - Sludge Storage Tank Install Conduit - Sludge Storage Tank)%	11-Nov-24	18-Nov-24	☐ Install Conduit - Sludge Storage Tank
)%	19-Nov-24	09-Dec-24	Pull & Terminate Wire - Sludge Sto
SST-200	Pull & Terminate Wire - Sludge Storage Tank	10 10		J%			I di di cittinidio vviio Giago, Gio
	on Feed Storage (Priority 2 Improvements)	95 95	-		02-Jul-24	15-Nov-24	
Civil		60 60			02-Jul-24	27-Sep-24	
CCFS-100	Excavate and Subgrade Prep - Chem/Carbon Feed Storage	10 10)%	02-Jul-24	18-Jul-24	Excavate and Subgrade Prep - Chem/Carbon Feed
CCFS-120 Structural	Install Underslab Piping - Chem/Carbon Feed Storage	15 15	5 0)%	06-Sep-24	27-Sep-24	Install Underslab Piping - Chem/Carbon Fee
		20 20			27-Sep-24	0F 0 1 0 1	



Remaining Work

Milestone



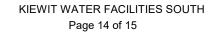


City of Sherman WW	TP - CMAR Baseline Schedule - LIVE	ALL AC	TIVITIE	:S			DATA DATE: 30-Sep-23
Activity ID	Activity Name	OD	RD	% Comp	Start	Finish	2024 2025
							O N D J F M A M J Jul A S O N D J F M A M J Jul A S O
CCFS-130	FPS Slab on Grade 1 - Chem/Carbon Feed Storage	10	10	0%	27-Sep-24	11-Oct-24	□ FPS Slab on Grade 1 - Chem/Carbon Feed
CCFS-140	FPS Slab on Grade 2 - Chem/Carbon Feed Storage	10	10	0%	11-Oct-24	25-Oct-24	☐ FPS Slab on Grade 2 - Chern/Carbon Feed
Mechanical		15			25-Oct-24		
CCFS-150	Install Chem/Carbon Feed Storage - Equipment	15	15	0%	25-Oct-24	15-Nov-24	Install Chem/Carbon Feed Storage - Equ
Electrical & I&C		15			18-Jul-24	08-Aug-24	
CCFS-110	Install Underslab Electrical - Chem/Carbon Feed Storage	15	15	0%	18-Jul-24	08-Aug-24	Install Underslab Electrical - Chem/Carbon Feed Sto
Membrane Sup	port Building (Priority 2 Improvements)	150	150		02-Jul-24	07-Feb-25	
Civil		60			02-Jul-24	27-Sep-24	
MSB-100	Excavate and Subgrade Prep - Membrane Support Building	10	10	0%	02-Jul-24	18-Jul-24	Excavate and Subgrade Prep - Membrane Support Bu
MSB-120	Install Underslab Piping - Membrane Support Building	15	15	0%	06-Sep-24	27-Sep-24	Install Underslab Piping - Membrane Support F
Structural		10	10	201	27-Sep-24	11-Oct-24	EDS Slob on Crode 1 Membrane Support B
MSB-140	FPS Slab on Grade 1 - Membrane Support Building	5	5	0%	27-Sep-24	04-Oct-24	☐ FPS Slab on Grade 1 - Membrane Support B
MSB-150	FPS Slab on Grade 2 - Membrane Support Building	5	5	0%	04-Oct-24	11-Oct-24	TFS Siab of Grade 2 - Meribiane Support
Electrical & I&C		35	35	00/	18-Jul-24	06-Sep-24	Install Underslab Electrical - Membrane Support B
MSB-110	Install Underslab Electrical - Membrane Support Building	35	35	0%	18-Jul-24	06-Sep-24	Inistrai Ondelsiab Electrical - Metribiane Support
Architectural	In stall CNALL Manshara Company Duilding	45	45	00/	11-Oct-24	17-Dec-24	Install CMU - Membrane Support Bu
MSB-160	Install CMU - Membrane Support Building	45	45	0%	11-Oct-24 06-Sep-24	17-Dec-24 07-Feb-25	install Givio - Wellbratie Gupport Du
Plumbing MCD 120	Install Lindorslah Diumhing Mamhrana Cumnart Duilding	105		00/			☐ Install Underslab Plumbing - Membrane Suppor
MSB-130 MSB-170	Install Underslab Plumbing - Membrane Support Building Rough in Plumbing	10	10	0% 0%	06-Sep-24 17-Dec-24	20-Sep-24 10-Jan-25	Rough in Plumbing
MSB-180	Install Plumbing Fixtures	15 20	15 20	0%	17-Dec-24 10-Jan-25	07-Feb-25	Install Plumbing Fixtures
	o Station (Priority 2 Improvements)	65	65	U /0	10-Jan-25 16-Jan-24	16-Apr-24	
	5 Station (Phonty 2 improvements)		GE CE		16-Jan-24	16-Apr-24	
RWAS-100	Install Cumpart of Every ration DACAMAC DC	65	4.4	00/		06-Feb-24	Install Support of Excavation - RAS/WAS PS
RWAS-100	Install Support of Excavation - RAS/WAS PS	14	14	0%	16-Jan-24 08-Feb-24	28-Feb-24	Excavate / Subgrade Prep - RAS/WAS/PS
RWAS-110	Excavate / Subgrade Prep - RAS/WAS PS Backfill Structure - RAS/WAS PS	13 5	13 5	0% 0%	10-Apr-24	16-Apr-24	Backfill Structure - RAS/WASPS
Structural	Dackiiii Structure - NAS/WAS FS	24	2/	0 70	29-Feb-24	10-Apr-24	
RWAS-120	FPS Slab - (30cy / 164 SF Edge Form / 420 SF Finish) - RAS/WAS	PS 9	9	0%	29-Feb-24	14-Mar-24	☐ FPS Slab - (30cy / 164 SF Edge Form / 420 SF Finish) - RAS/WAS PS
RWAS-130	FPS Walls - RAS/WAS PS	15	15	0%	15-Mar-24	09-Apr-24	FPS:Walls -RAS/WAS PS
	ucture (Priority 2 Improvements)	87	87	070	04-Jan-24	06-May-24	
Civil	detaile (Friority 2 improvements)	15	45		04-Jan-24	06-May-24	
MVS-100	Excavate / Subgrade Prep - Meter Vault Structure	5	5	0%	04-Jan-24	11-Jan-24	☐ Excavate / Subgrade Prep - Meter Vault Structure
MVS-140	Backfill Structure - Meter Vault Structure	5	5	0%	29-Feb-24	06-Mar-24	□ Backfill Structure - Meter Vault Structure
Structural	Dackiiii Structure - Ivieter Vault Structure	20	20	0 70	12-Jan-24	28-Feb-24	
MVS-110	FPS Slab - (12cy / 75 SF Edge Form / 150 SF Finish) - Meter Vault S	Structure 5	5	0%	12-Jan-24	19-Jan-24	☐ FPS Slab - (12cy / 75 SF Edge Form / 150 SF Finish) - Meter Vault Structure
MVS-110	FPS Walls - Meter Vault Structure	9	9	0%	22-Jan-24	02-Feb-24	☐ FPS Walls - Meter Vault Structure
MVS-130	FPS Decks - Meter Vault Structure	15	15	0%	05-Feb-24	28-Feb-24	FPS Decks - Meter Vault Structure
Mechanical	TT C BOOKS WOLD VALUE GLOSTICS	10		070	07-Mar-24	22-Mar-24	
MVS-150	Install Piping - Meter Vault Structure	10		0%	07-Mar-24	22-Mar-24	☐ Install Piping - Meter Vault Structure
Electrical & I&C	. •	30		3 ,3	25-Mar-24	06-May-24	
MVS-160	Install Above Ground Conduits - Meter Vault Structure	20	20	0%	25-Mar-24	22-Apr-24	Install Above Ground Conduits - Meter Vault Structure
MVS-170	Pull/Terminate Wire - Meter Vault Structure	10	10	0%	23-Apr-24	06-May-24	Pull/Terminate Wire - Meter Vault Structure
Commissioni		158	158		18-Feb-25	26-Jul-25	
CX-100	Operational Demonstration Stable Biological	10	10	0%	18-Feb-25	28-Feb-25	☐ Operational Demonstration
-		10	I	0 /0	10-1 60-23	20-1 GD-2J	
Remaining I	Level of Effort						



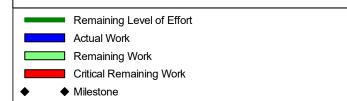
Remaining Work

Milestone



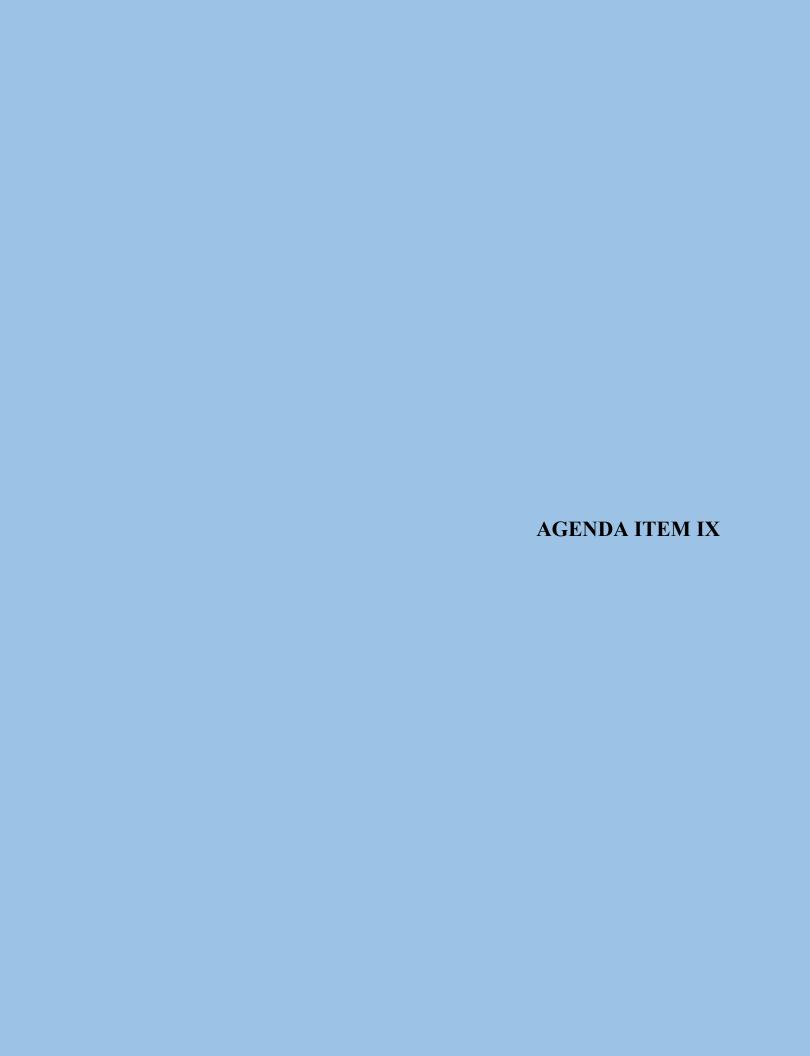


City of Sherman WW	VTP - CMAR Baseline Schedule - LIVE	ALL A	CTIVITIE	ES .					DATA DATE: 30-Sep-23
Activity ID	Activity Name	OD	RD	% Comp	Start	Finish		2024	2025
							OND	J F M A M J Jul A S O N D	J F M A M J Jul A S O
CX-110	Plant Performance Testing (60 Days)	60	60	0%	28-Feb-25	29-Apr-25			Plant Performance
CX-110 CX-120	Submit Closeout Documentation	88	88	0%	29-Apr-25	26-Jul-25	1		Submit C











GREATER TEXOMA UTILITY AUTHORITY AGENDA COMMUNICATION

DATE: October 11, 2023

SUBJECT: AGENDA ITEM NO. IX

PREPARED AND SUBMITTED BY: Paul M. Sigle, General Manager

CONSIDER AND ACT UPON SELECTION OF MEMBRANE BIOLOGICAL REACTOR EQUIPMENT SUPPLIER FOR CITY OF SHERMAN'S SOUTH WASTEWATER TREATMENT PLANT – MBR PROJECT.

ISSUE

Consider and act upon selection of Membrane Biological Reactor Equipment Supplier for City of Sherman's South Wastewater Treatment Plant – MBR Project.

BACKGROUND

City of Sherman's Engineers recommendations in a Preliminary Design Report (PDR) indicate that in order to serve the fast-growing needs of the City's industrial, commercial, and residential users, a new wastewater treatment plant would be needed. The expected industrial wastewater quality to treat was such that the upgrades to the existing treatment plant would be overly cost prohibitive, so it was decided to proceed to construct a new wastewater treatment plant (WWTP) called membrane biological reactor, or MBR. Engineers have determined that this type of treatment plant will be able to treat the expected wastewater to State-mandated discharge limits. To meet industrial schedule, the report also indicated this new wastewater treatment plant would need to be online by the first quarter of 2025.

To meet the time constraint delivery of the first quarter 2025, it was decided to proceed with the Construction Manager at Risk, or CMAR, delivery method. The project RFQ was submitted and Kiewit Water Facilities – South, was selected as the construction firm to undertake the work on September 13, 2023. The project has undertaken pre-selection services to get long-lead time materials underway as soon as possible. The first of the pre-procurement equipment is the MBR. Later equipment packages will be lift station pumps, aeration equipment, equalization tank, and chemical feed to name a few.

CONSIDERATIONS

The City received three proposals from qualifying membrane equipment system suppliers on September 13, 2023. The City and their Engineers have review the proposals and have selected Veolia Water Technologies & Solutions based on the evaluation criteria. Below is the ranking for the three suppliers.

Manufacturer	Manufacturer Equipment Proposal Cost				
Veolia	\$3,987,000	941			
Kubota	\$3,213,000	917			
Dupont	\$3,562,000	774			

STAFF RECOMMENDATIONS

The Authority Staff recommends awarding the Membrane Biological Reactor Equipment to Veolia Water Technologies & Solutions for the South WTP MBR Project. This item is contingent upon the City's approval.

ATTACHMENT

Engineer's Letter of Recommendation



1422-005-02

10/3/2023

Tom Pruitt, P.E.
Utility Engineer
City of Sherman
City Hall 220 W. Mulberry St.
Sherman, TX 75090

Re: City of Sherman

Public Works #1513-U

South Wastewater Treatment Plant – MBR Project

Selection of Membrane Biological Reactor Equipment System Supplier

Dear Mr. Pruitt:

On Wednesday, September 13, 2023, three proposals from membrane equipment system suppliers were received, opened, and read aloud for the above-referenced project. The membrane equipment system suppliers were qualified to propose based on the Statements of Qualifications received. The bids were evaluated based on the cost and non-cost criteria developed with the City. A summary of the equipment proposal amounts and scoring is below:

Manufacturer	Equipment Proposal Cost	Scoring Summary
Veolia	\$3,987,000.00	941
Kubota	\$3,213,000.00	917
Dupont	\$3,562,000.00	774

Veolia and Kubota provided an optional secondary process design, process model and warranty for consideration by the selection committee. The size reduction of the aerobic zone with the minimum safety factor outlined in the specifications was evaluated. The Engineer does not recommend the City accept the alternative process design as the reduction in footprint of the aerobic zone volume was not significant, and the larger basin provides an additional safety factor for future loads.

Based on a review of the proposals and the determination of the cost and non-cost factors from the proposals received, Plummer recommends the City proceed with Veolia Water Technologies & Solutions as the selected membrane equipment system supplier. The complete bid tabulation as read aloud is attached to this letter for your reference.

If you have any questions concerning this recommendation, please contact me at 817-806-1700. We look forward to continuing working with you during the design and construction of this important project.

Sincerely,

PLUMMER ASSOCIATES, INC.

David Gudal

David A. Gudal, P.E. Principal

PAM/jbm

Enclosure(s)

cc: Nathan Whiddon, City of Sherman, nathanw@cityofsherman.com

Nathan Zaugg, Carollo, nzaugg@carollo.com

Mark Perkins, Mead and Hunt, mark.perkins@meadhunt.com

Colin Bunker, Kiewit, colin.bunker@kiewit.com

City of Sherman South Wastewater Treatment Plant - MBR Preselected Equipment Suppliers - MBR Package Administrative Check of Required Forms and Documents

ID No.	Item	Reference	Kubota	Veolia	Dupont
1	6 hard copies of sealed proposal submitted (postmarked by 9/13/2023 at 2:30 CST) - to be verified when received	00 11 13 Part 6.A	Received electronically. Hardcopies received postmarked by deadline.	Received electronically. Hardcopies received postmarked by deadline.	Yes
2	Cost proposal form	00 31 00.10	Yes	Yes	Yes
3	Equipment manufacturer summary form	00 31 00.10	Yes	Yes	Yes
4	Addenda acknowlegement	00 31 00.10	Yes	Yes	Yes
5	Evaulation criteria and questions	00 31 00 Part 4.B	Yes	Yes	Yes
6	Proposal cover letter	00 31 00 Part D.1	Yes	Yes	Yes
7	Cost proposal in separate document	00 31 00 Part D.2	Yes	Yes	Yes
8	Qualifications, installations, and references	00 31 00 Part D.3	Yes	Yes	Yes
9	Technical specifications (Div 40-46) with compliance/deviations noted	00 31 00 Part D.5	Yes - individual specs not provided though	Yes	Yes
10	Equipment data, drawings, and supporting documentation	00 31 00 Part D.6	Yes	Yes	Yes
11	O&M summary, schedule, and considerations	00 31 00 Part D.7	Yes	Yes	Yes
12	Service and support facility description	00 31 00 Part D.8	Yes	Yes	Yes
13	Scope of supply summary	00 31 00 Part D.9	Yes	Yes	Yes
14	Maintenance service contracts	00 31 00 Part D.10	To confirm	Yes	Yes
15	OPTIONAL - Process warranty documentation (model, inputs/outputs, warranty)	00 31 00 Part D.14	Submitted - BioWin Model ¹	Submitted - BioWin Model	Not Submitted ²

⁽¹⁾Actual model not submitted.

⁽²⁾Not asking for a reduction in the size of the AB volume.

City of Sherman South Wastewater Treatment Plant - MBR Preselected Equipment Suppliers - MBR Package Bid Tabulation 9/13/2023 2:30pm

	Bid Tabulation Summary for the	Membrane Bioreactor	Equipment Package for th	e City of Sherman South W	astewater Treatment Plar	nt - MBR			
Item No.	Description	Unit		Quantity		Proposal Amount			
item ito.	Description .	One	Kubota	Veolia	Dupont	Kubota	Veolia	Dupont	
1	For all Work defined in the RFP to supply the complete Membrane Biological Reactors (circle one), a. Hollow Fiber Type (Section 46 53 49.10-PS), b. Flat Plate Type (Section 46 53 49.20-PS), with Permeate Pumps, CIP feed system, Positive Displacement Screw Type Blowers (Section 43 11 15-PS), Valves for Air Service (Section 40 05 64.33-PS) with Electric Motor Actuators (Section 40 05 57.23-PS), and Flow Control Valves (Section 40 05 65-PS) as outlined in the RFP.	LS	1	1	1	\$ 3,213,000.00	\$ 3,987,000.00	\$ 3,562,000.00	
2	Guaranteed power usage for treating 4 MGD of wastewater, the kW-Hr in the MBR system.	Kw-Hr per 4 MGD	4,413	1,044	2,419	N/A	N/A	N/A	
3	Guaranteed cost of membrane module replacement for a 10-year time period following Final Acceptance for (total number of modules) furnished.	Unit Cost per Module	1	1	1	350	0 until year 12 \$650 to year 20	\$ 1,158	
4	Gallons of 10 percent concentration of sodium hypochlorite used per year in membrane cleaning	Gallons per year	5,577	3,148	7,818	N/A	N/A	N/A	
5	Gallons of 50 percent concentration of citric acid used per year in membrane cleaning.	Gallons per year	372	525	4,825	N/A	N/A	N/A	
6	Gallons of 50 percent concentration of sodium hydroxide used per year in membrane cleaning.	Gallons per year	-	-	-	N/A	N/A	N/A	
7	OPTIONAL secondary process warranty for the scope of supply in Item No. 1 above, per the RFP, Section 46 53 49.10 or 46 53 49.20 warranty requirements, and per the biological process model furnished with this proposal indicating the process and basin design basis.	LS	1	1	1	\$ -	\$ 64,500.00	Not submitted	

Summary of Equipment Manufacturer's Selected

Item No.	Description	Kubota	Veolia	Dupont
1	Membrane Elements/Modules	Kubota	Veolia	Memcor
2	Butterfly Valves	Bray	Bray	Bray
3	Valve/Motor Operators	Auma	Auma	Bray-Alma
4	PLCs	Allen Bradley	Allen Bradley	Allen Bradley
5	Permeate Pumps	Borger	Vogelsang	Vogelsang
6	Air Blowers	Kaeser	Aerzen	Aerzen
7	HMI/SCADA Software	TBD	Panel View Plus 7	Allen Bradley





GREATER TEXOMA UTILITY AUTHORITY AGENDA COMMUNICATION

DATE: October 11, 2023

SUBJECT: AGENDA ITEM NO. X

PREPARED AND SUBMITTED BY: Paul M. Sigle, General Manager

CONSIDER AND ACT UPON AWARD OF CONTRACT FOR CITY OF SHERMAN'S SOUTH WASTEWATER TREATMENT PLANT – MBR PROJECT – ELECTRICAL EQUIPMENT PROCUREMENT.

ISSUE

Consider and act upon award of contract for City of Sherman's South Wastewater Treatment Plant – MBR Project – Electrical Equipment Procurement.

BACKGROUND

City of Sherman's Engineers recommendations in a Preliminary Design Report (PDR) indicate that in order to serve the fast-growing needs of the City's industrial, commercial, and residential users, a new wastewater treatment plant would be needed. The expected industrial wastewater quality to treat was such that the upgrades to the existing treatment plant would be overly cost prohibitive, so it was decided to proceed to construct a new wastewater treatment plant (WWTP) called membrane biological reactor, or MBR. Engineers have determined that this type of treatment plant will be able to treat the expected wastewater to State-mandated discharge limits. To meet industrial schedule, the report also indicated this new wastewater treatment plant would need to be online by the first quarter of 2025.

To meet the time constraint delivery of the first quarter 2025, it was decided to proceed with the Construction Manager at Risk, or CMAR, delivery method. The project RFQ was submitted and Kiewit Water Facilities – South, was selected as the construction firm to undertake the work on September 13, 2023. The project has undertaken pre-selection services to get long-lead time materials underway as soon as possible. The first of the pre-procurement equipment is the MBR. Later equipment packages will be lift station pumps, aeration equipment, equalization tank, and chemical feed to name a few.

CONSIDERATIONS

In an effort to get long, lead time electrical equipment to be able to be incorporated into construction, the equipment was pre-selected for the contractor. The City received bids from two suppliers, Elliott Electric Supply, Inc and Smith Pump Company, Inc for the multiple bid items. Smith Pump Company only provided a bid for the variable frequency drive while Elliott Electric Supply provided bids for the variable frequency drive, low voltage transformers, switchboards, panelboards, motor control center, enclosed controllers, and transfer switches. Elliott Electric Supply was the lowest bidder for the variable frequency drive. This equipment was reviewed by our engineers and found to meet their specifications.

STAFF RECOMMENDATIONS

The Authority Staff recommends authorizing the General Manager to award a contract to Elliott Electric Supply for South Wastewater Treatment Plant – MBR Project – Electrical Equipment Procurement in the amount of \$1,513,000. This item is contingent upon the City's approval.

ATTACHMENT

Engineer's Letter of Recommendation



Mr. Tom Pruitt, P.E. Utility Engineer City of Sherman 220 W Mulberry St. Sherman, TX 75091

Re: City of Sherman/ Greater Texoma Utility Authority South Plant Wastewater Treatment Plant Preselection of Electrical Equipment Low Voltage Transformers – Dry Type Recommendation of Award

Dear Mr. Pruitt,

On Tuesday, September 26, 2023, one bid was received, opened, and publicly read aloud at the office of Engineering at City Hall, City of Sherman for the above-referenced project. The bids were as follows:

Bidder	Bid Amoun	
Elliott Electric Supply, Inc	\$31,285.71	

Elliott Electric Supply, Inc was the apparent low bidder with a Total Bid of \$31,285.71.

We have reviewed their bid and Bill of Material. A bid bond was provided, and addendums acknowledged.

Since it appears to be in order and in accordance with the Agreement with City of Sherman and funding through the Greater Texoma Utility Authority, we recommend awarding the Total Bid to Elliott Electric Supply, Inc. in the amount of \$31,285.71.

Please call me if you have any questions. We look forward to working with you during the construction of this project.

Sincerely,

PLUMMER, ASSOCIATES, INC.



Mr. Tom Pruitt, P.E. Utility Engineer City of Sherman 220 W Mulberry St. Sherman, TX 75091

Re: City of Sherman/ Greater Texoma Utility Authority

South Plant Wastewater Treatment Plant

Preselection of Electrical Equipment

Switchboards

Recommendation of Award

Dear Mr. Pruitt,

On Tuesday, September 26, 2023, one bid was received, opened, and publicly read aloud at the office of Engineering at City Hall, City of Sherman for the above-referenced project. The bids were as follows:

Bidder	Bid Amount		
Elliott Electric Supply, Inc	\$965,714.29		

Elliott Electric Supply, Inc was the apparent low bidder with a Total Bid of \$965,714.29.

We have reviewed their bid and Bill of Material. A bid bond was provided, and addendums acknowledged. However, provided lead times will not meet construction sequence time frames. Elliott Electrical Supply, Inc. did provide an expedite option of \$1,918,571.43, that does meet the construction schedule.

We recommend that the award be based upon the bid amount of \$965,714.29 and allow the Construction Manager at Risk, negotiated the delivery schedule and if necessary rebid the switchgear.

Please call me if you have any questions. We look forward to working with you during the construction of this project.

Sincerely,

PLUMMER ASSOCIATES, INC.



Mr. Tom Pruitt, P.E. Utility Engineer City of Sherman 220 W Mulberry St. Sherman, TX 75091

Re: City of Sherman/ Greater Texoma Utility Authority South Plant Wastewater Treatment Plant Preselection of Electrical Equipment Panelboards – Lighting and Appliance

Recommendation of Award

Dear Mr. Pruitt,

On Tuesday, September 26, 2023, one bid was received, opened, and publicly read aloud at the office of Engineering at City Hall, City of Sherman for the above-referenced project. The bids were as follows:

Bidder	Bid Amount		
Elliott Electric Supply, Inc	\$31,571.4		

Elliott Electric Supply, Inc was the apparent low bidder with a Total Bid of \$31,571.43.

We have reviewed their bid and Bill of Material. A bid bond was provided, and addendums acknowledged.

Since it appears to be in order and in accordance with the Agreement with City of Sherman and funding through the Greater Texoma Utility Authority, we recommend awarding the Total Bid to Elliott Electric Supply, Inc. in the amount of \$31,571.43.

Please call me if you have any questions. We look forward to working with you during the construction of this project.

Sincerely,

PLUMMER ASSOCIATES, INC.



Mr. Tom Pruitt, P.E. Utility Engineer City of Sherman 220 W Mulberry St. Sherman, TX 75091

Re: City of Sherman/ Greater Texoma Utility Authority

South Plant Wastewater Treatment Plant

Preselection of Electrical Equipment

Motor Control Center

Recommendation of Award

Dear Mr. Pruitt,

On Tuesday, September 26, 2023, one bid was received, opened, and publicly read aloud at the office of Engineering at City Hall, City of Sherman for the above-referenced project. The bids were as follows:

Bidder	Bid Amount
Elliott Electric Supply, Inc	\$204,000.00

Elliott Electric Supply, Inc was the apparent low bidder with a Total Bid of \$204,000.00.

We have reviewed their bid and Bill of Material. A bid bond was provided, and addendums acknowledged. However, the combined lead times of submittal of 12-14 weeks and production of 50-54 weeks will not meet the construction schedule. We would recommend an abbreviated submittal of Bill of Material and layout be approved to reduce submittal time to 2-3 weeks.

Since it appears to be in order and in accordance with the Agreement with City of Sherman and funding through the Greater Texoma Utility Authority, we recommend awarding the Total Bid to Elliott Electric Supply, Inc. in the amount of \$204,000.00.

Please call me if you have any questions. We look forward to working with you during the construction of this project.

Sincerely,

PLUMMER ASSOCIATES, INC.



Mr. Tom Pruitt, P.E. Utility Engineer City of Sherman 220 W Mulberry St. Sherman, TX 75091

Re: City of Sherman/ Greater Texoma Utility Authority

South Plant Wastewater Treatment Plant

Preselection of Electrical Equipment

Enclosed Controllers

Recommendation of Award

Dear Mr. Pruitt,

On Tuesday, September 26, 2023, one bid was received, opened, and publicly read aloud at the office of Engineering at City Hall, City of Sherman for the above-referenced project. The bids were as follows:

Bidder	Bid Amount
Elliott Electric Supply, Inc	\$115,428.57

Elliott Electric Supply, Inc was the apparent low bidder with a Total Bid of \$115,428.57.

We have reviewed their bid and Bill of Material. A bid bond was provided, and addendums acknowledged.

Since it appears to be in order and in accordance with the Agreement with City of Sherman and funding through the Greater Texoma Utility Authority, we recommend awarding the Total Bid to Elliott Electric Supply, Inc. in the amount of \$115,428.57.

Please call me if you have any questions. We look forward to working with you during the construction of this project.

Sincerely,

PLUMMER ASSOCIATES, INC.



Mr. Tom Pruitt, P.E. Utility Engineer City of Sherman 220 W Mulberry St. Sherman, TX 75091

Re: City of Sherman/ Greater Texoma Utility Authority
South Plant Wastewater Treatment Plant
Preselection of Electrical Equipment
Variable Frequency Drives
Recommendation of Award

Dear Mr. Pruitt,

On Tuesday, September 26, 2023, two bids were received, opened, and publicly read aloud at the office of Engineering at City Hall, City of Sherman for the above-referenced project. The bids were as follows:

Bidder	Bid Amount
Elliott Electric Supply, Inc	\$122,857.14
Smith Pump Company, Inc.	\$380,365.00

Elliott Electric Supply, Inc was the apparent low bidder with a Total Bid of \$122,857.14

We have reviewed their bid and Bill of Material. A bid bond was provided, and addendums acknowledged. We also reviewed Smith Pump Company, Inc's Bill of Material and concluded their bid form was filled out incorrectly. The amount included in this bid package was for the Variable Frequency Drives and the Enclosed Controllers.

Since it appears to be in order and in accordance with the Agreement with City of Sherman and funding through the Greater Texoma Utility Authority, we recommend awarding the Total Bid to Elliott Electric Supply, Inc. in the amount of \$122,857.14.

Please call me if you have any questions. We look forward to working with you during the construction of this project.

Sincerely,

PLUMMER ASSOCIATES, INC.



Mr. Tom Pruitt, P.E. Utility Engineer City of Sherman 220 W Mulberry St. Sherman, TX 75091

Re: City of Sherman/ Greater Texoma Utility Authority

South Plant Wastewater Treatment Plant

Preselection of Electrical Equipment

Transfer Switches

Recommendation of Award

Dear Mr. Pruitt,

On Tuesday, September 26, 2023, one bid was received, opened, and publicly read aloud at the office of Engineering at City Hall, City of Sherman for the above-referenced project. The bids were as follows:

Bidder	Bid Amount
Elliott Electric Supply, Inc	\$42,142.86

Elliott Electric Supply, Inc was the apparent low bidder with a Total Bid of \$42,142.86.

We have reviewed their bid and Bill of Material. A bid bond was provided, and addendums acknowledged.

Since it appears to be in order and in accordance with the Agreement with City of Sherman and funding through the Greater Texoma Utility Authority, we recommend awarding the Total Bid to Elliott Electric Supply, Inc. in the amount of \$42,142.86.

Please call me if you have any questions. We look forward to working with you during the construction of this project.

Sincerely,

PLUMMER ASSOCIATES, INC.





GREATER TEXOMA UTILITY AUTHORITY AGENDA COMMUNICATION

DATE: October 11, 2023

SUBJECT: AGENDA ITEM NO. XI

PREPARED AND SUBMITTED BY: Paul M. Sigle, General Manager

CONSIDER AND ACT UPON THE AWARD OF CONTRACT FOR CITY OF SHERMAN'S LAKE TEXOMA PUMP STATION EXPANSION - PUMP PROCUREMENT.

ISSUE

Consider and act upon the award of contract for City of Sherman's Lake Texoma Pump Station Expansion - Pump Procurement.

BACKGROUND

The City of Sherman is executing a major infrastructure improvements program to meet the fast-growing needs of the city including industrial, commercial and residential users. The city needs to complete certain key infrastructure projects to meet the planned industrial expansion needs of significant industrial users before 2025.

One of the projects being undertaking in order to meet the demand of the fast-growing City, the City is in the process of increasing the capacity of the Lake Texoma Pump Station (LTPS) from 21 MGD to 46 MGD.

CONSIDERATIONS

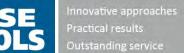
In an effort to get long lead time electrical and pump equipment as fast as possible, the City have preprocured this equipment. The City received two bids from Goulds Pump Ltd and Smith Pump for the pump procurement on September 11, 2023. Goulds Pump was the lowest bidder at \$1,719,985, and Smith Pump bid was \$2,446,700. The City's Engineers have review the bids and have determined Gould Pump bid as unresponsive for multiple reasons. The Engineer's Letter of Recommendation explain all the issues with the bid. The Engineers have found Smith Pump bid as acceptable.

STAFF RECOMMENDATIONS

The Authority Staff recommends authorizing the General Manager to award a contract to Smith Pump Inc. for Lake Texoma Pump Station Expansion - Pump Procurement in the amount of \$2,446,700. This item is contingent upon the City's approval.

ATTACHMENT

Engineer's Letter of Recommendation



900 Camp St., Suite 354 + New Orleans, Louisiana 70130 + 504-603-3525 + FAX 817-735-7491

www.freese.com

September 22, 2023

Paul M. Sigle Greater Texoma Utility Authority 5100 Airport Drive Denison, TX 75020 Tom Pruit City of Sherman 220 W Mulberry St. Sherman, TX 75091

Re: Lake Texoma Pump Station Expansion - Pump Procurement Bid SHM23287.1

Dear Mr. Sigle and Pruit

Bids for the above-mentioned project were opened and read aloud on September 11th, 2023. Freese and Nichols Inc (FNI) has tabulated the bids in ascending order:

Contractor	Total Base Bid
Goulds Pump Ltd.	\$1,719,985.00
Smith Pump	\$2,446,700.00

FNI reviewed the bidding documents and found that the apparent low bidder, Goulds Pump Ltd. and found them to be unresponsive for the following reasons:

- The conflict-of-interest form was not signed.
- The Motor data sheet was incomplete.
- Exceptions were taken to the minimum insurance and bonding requirements including deductibles, liability coverages and conditions of the policies.
- Exceptions were taken to the terms of the agreement including the delivery times, liquidated damages, payment of interest and sellers representation.
- Exceptions were taken to the General Conditions from article 1 thru 15.
- Exceptions were taken to the technical requirements including the use of oil lubricated bearings, force and moment analysis, screen materials, testing tolerances and pipe painting.

Exceptions made on the pump and contractual terms effects the project price and FNI does not recommend accepting their bid.

FNI reviewed the bidding documents from Smith Pump and found the bidding documents complete with the following issues:

- Smith Pump left the unit price for alternate 1 and 2 (Pump and Motor Testing) blank, Smith Pump later clarified that the total price is for testing both units as the cost for testing one is the same as testing two.
- Smith Pump left the unit price for extra work item 1 (Pump and motor storage) and took exceptions to the liquidated damages. Smith Pump later clarified that they misunderstood the storage and liquidated damages requirement.

Lake Texoma Pump Station Expansion MCC Procurement 9/22/23





• The pump efficiency at design point 1 is listed as 84% on the bid form and 83.8% on the hydraulic data sheet. Smith Pump clarified that Flowserve will guarantee 84% which results in a \$15,000 penalty per paragraph 1.10 of Section 43 24 13 "Vertical Pumping Units". The efficiency will be verified during factory testing. This penalty is taken into consideration of the final awarded amount and tabulated in the attachments.

FNI reviewed the technical aspects of Smith Pump and took no issues once questions were clarified.

Since it appears to be in order and in accordance with the Agreement with City of Sherman and funding through the Greater Texoma Utility Authority we recommend awarding the Total Bid to Smith Pump Inc. in the amount of \$2,446,700.00

Please call me if you have any questions. We look forward to working with you during the procurement and construction of this project.

Sincerely,

Lewis Bernard, P.E., Project Manager

cc: Puneet Gupta PE, Gupta and Associates

Toby Flinn, PE, PMP, Pape Dawson

Clayton Barnard, PE, Freese and Nichols, Inc.

Attachments: Bid Opening Record

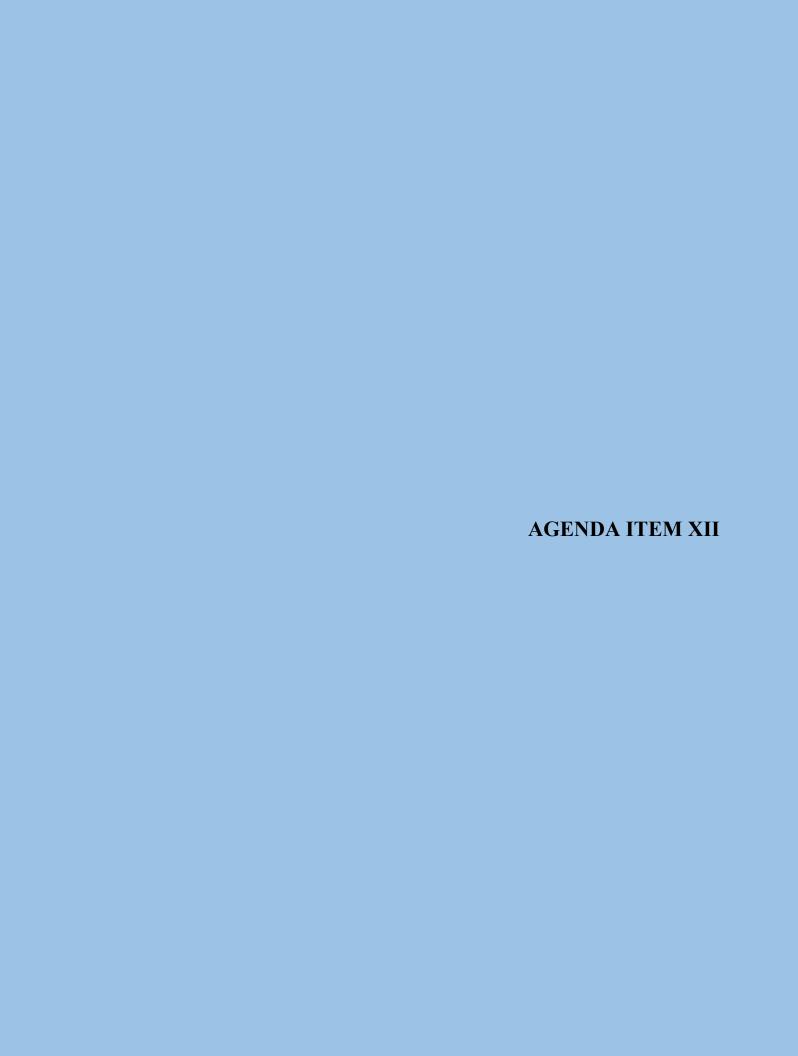
Bid Tabulation

Project	Lake Texoma Pi	ump Station Pi	ump Procurem	ent									
Owner	Greater Texoma Utility Authority/City of Sherman												
Engineering Firm	Freese and Nich	ese and Nichols, Inc SHM23287.1											
Design Professional													
Date 9/11/202	tate 9/11/2023 Time 10:00AM CDT Location Sherman Council Chambers: 220 W Mulberry St, Sherman, TX 75090												
	Bid Form	Bid Bond	Compliance	Compliance	Conflict of	Non Collusion	Acknowledged	Qualifications	Pump and		В	id Items	
Name of Offeror	Executed 00 41 16	Attached 00 43 13	to State Law 00 45 01	to Sales Tax 00 45 02	Interest 00 45 03	Certification 00 45 03	Addendum 1 and 2	Statement 00 45 13	Motor Data 43 24 13	Base Bid	Alternate Items	Extra Work	Total Bid Cost
mith Pump	х	Х	х	Х	Х	Х	х	х	х	\$ 2,353,600.00	\$ 93,100.00	\$ -	\$ 2,446,700.0
oulds Pump Co. Ltd	х	Note 2	х	х	Note 3	Х	Х	Х	Note 4	\$ 1,556,959.00	\$ 148,626.00	\$ 14,400.00	\$ 1,719,985.0
		I											

Notes:

- 1 Smith pump left the unit price for Alt 1 and Alt 2 empty but included total extended amout of \$93,100.
- 2 Bid Bond is held by a Korean Surety
- 3 Conflict of Interest form has not been signed, response to item 1 indicates there is not conflicts of interest
- 4 Full motor data not provided. GE or Nidec listed in bid form. Only motor data for GE provided.
- 5 Goulds Pump took exception to technical, contractual and time aspecs of the contract.
- 6 Smith pump took exception to liquidated damages and left the storage unit price item blank.

Bid Tabulation	Lake Texoma Pump Station Pump Procurement	Bid Opening: September 11, 2023			Smith Pump				ITT Goulds 35 Oksansandan-RO, Oskan-Myeon				
Owner:	GTUA/City of Sherman												
Design Professional:	Freese and Nichols				301 M&B Industrial Blvd Waco, TX 76712				Heungdeo-G	Gu, Cheongju-SI ık-Do, 363-912 Korea			
Prepared By:	Lewis Bernard, PE								neungcheongou	K-D0, 303-912 Korea			
Item No.	Unit		Estimated Quantity		Unit Price	Ex	tended Amount	Unit Price		Extended Amount			
Base Bid Items													
BC-01	Vertical Turbine Pump and Motor	EA	2	\$	1,132,000.00	\$	2,264,000.00	\$	725,287.00	\$	1,450,574.00		
	Pump Efficiency @ Rated Point 1, Min 85%		\$750 per 0.1% per pump		84.0%	\$	(15,000.00)		85.0%	\$	-		
	Pump Efficiency @ Rated Point 2, Min 67%		\$300 per 0.1% per pump		67.0%	\$	-		69.5%	\$	-		
BC-02	Pump 1 Sole Plate Additional Expansion	LS	1	\$	4,600.00	\$	4,600.00	\$	6,385.00	\$	6,385.00		
Α	Total Amount of Base Contract Items					\$	2,253,600.00			\$	1,456,959.00		
Allowances in Base Bid Items													
D-01	Contingency Allowance	LS	1	\$	100,000.00	\$	100,000.00	\$	100,000.00	\$	100,000.00		
В	Total Allowance Amount					\$	100,000.00			\$	100,000.00		
ВС	BC Subtotal Base Contract (Sum of A and B)					\$	2,353,600.00			\$	1,556,959.00		
Alternate Items	n the Contract												
EW-01	Additional Cost for Witnessing Factory Pump Test	EA	2	\$	-	\$	32,000.00	\$	33,423.00	\$	66,846.00		
EW-01	Additional Cost for Witnessing Factory Motor Test	EA	2	\$	-	\$	61,100.00	\$	40,890.00	\$	81,780.00		
EW	Total Amount of Extra Work Items					\$	93,100.00			\$	148,626.00		
Extra Work Item	s in Contract												
EW-01	Pump and Motor Storage	Weeks	12	\$	-	\$	-	\$	1,200.00	\$	14,400.00		
EW	Total Amount of Extra Work Items					\$	-			\$	14,400.00		
TC	Total Contract Amount with Extra Work Items (Sum of BC and EW)					\$	2,446,700.00		·	\$	1,571,359.00		





GREATER TEXOMA UTILITY AUTHORITY AGENDA COMMUNICATION

DATE: October 11, 2023

SUBJECT: AGENDA ITEM NO. XII

PREPARED AND SUBMITTED BY: Paul M. Sigle, General Manager

CONSIDER AND ACT UPON THE AWARD OF CONTRACT FOR CITY OF SHERMAN'S LAKE TEXOMA PUMP STATION EXPANSION – MCC AND SWITCHGEAR PROCUREMENT.

ISSUE

Consider and act upon the award of contract for City of Sherman's Lake Texoma Pump Station Expansion – MCC and Switchgear Procurement.

BACKGROUND

The City of Sherman is executing a major infrastructure improvements program to meet the fast-growing needs of the city including industrial, commercial and residential users. The city needs to complete certain key infrastructure projects to meet the planned industrial expansion needs of significant industrial users before 2025.

One of the projects being undertaking in order to meet the demand of the fast-growing City, the City is in the process of increasing the capacity of the Lake Texoma Pump Station (LTPS) from 21 MGD to 46 MGD.

CONSIDERATIONS

In an effort to get long lead time electrical and pump equipment as fast as possible, the City have preprocured this equipment. The City received two bids from Elliot Electric Supply and Parish Hare Electrical Supply for the MCC and Switchgear procurement on September 11, 2023. Elliot Electric Supply was the lowest bidder at \$701,900. The City's Engineers have review the bids and have determined Elliot Electric Supply bid as acceptable.

STAFF RECOMMENDATIONS

The Authority Staff recommends authorizing the General Manager to award a contract to Elliot Electric Supply. for Lake Texoma Pump Station Expansion – MCC and Switchgear Procurement in the amount of \$701,900. This item is contingent upon the City's approval.

ATTACHMENT

Engineer's Letter of Recommendation

Innovative approaches
Practical results
Outstanding service

900 Camp St., Suite 354 + New Orleans, Louisiana 70130 + 504-603-3525 + FAX 817-735-7491

www.freese.com

September 22, 2023

Paul M. Sigle Greater Texoma Utility Authority 5100 Airport Drive Denison, TX 75020 Tom Pruit City of Sherman 220 W Mulberry St. Sherman, TX 75091

Re: Lake Texoma Pump Station Expansion - MCC Procurement

Bid SHM23287.2

Dear Mr Sigle and Pruit

Bids for the above-mentioned project were opened and read aloud on September 11th, 2023. Freese and Nichols Inc (FNI) has tabulated the bids in ascending order:

Contractor	Total Base Bid
Elliot Electrical Supply	\$701,900.00
Parish Hare Electrical Supply	\$1,296,179.00

FNI reviewed the bidding documents and found that the apparent low bidder, Elliot Electrical Supply, a bid bond was provided but they had not acknowledged addendum 2 in Section 00 41 13 "BID," Paragraph 2.04. However, Elliot Electrical Supply did acknowledge the addendum on the cover of their bid package and followed up via email to clarify that their bid was based on addendum #2. A preliminary bill of materials was provided in a follow up email and is compliance with contract documents.

Since it appears to be in order and in accordance with the Agreement with City of Sherman and funding through the Greater Texoma Utility Authority we recommend awarding the Total Bid to Elliot Electrical Supply, Inc. in the amount of \$701,900.00

Please call me if you have any questions. We look forward to working with you during the procurement and construction of this project.

Sincerely,

Lewis Bernard, P.E., Project Manager

cc: Puneet Gupta PE, Gupta and Associates

Toby Flinn, PE, PMP, Pape Dawson

Clayton Barnard, PE, Freese and Nichols, Inc.

Attachments: Bid Opening Record

eus Bemarl

Bid Tabulation

Elliot Electrical Supply Email Dated 9/14/23

Project	Lake Texoma Pump Station MCC Procurement			
Owner Greater Texoma Utility Authority/City of Sherman Engineering Firm Freese and Nichols, Inc Design Professional Puneet Gupta, PE				
Engineering Firm	Freese and Nichols, Inc			SHM23287.2
Design Professional	Puneet Gupta, PE			
Date 9/11/202	23 Time 10:00AM CDT	Sherr	nan Council Chambers:	

Date 9/11/2023 Time 10:00AM CDT Location Sherman Council Chambers: 220 W Mulberry St, Sherman, TX 75090

	Bid Form	Bid Bond	Compliance	Compliance	Conflict of	Non Collusion	Acknowledged	Qualifications	Bid Items		ns
Name of Offeror	Executed 00 41 16	Attached 00 43 13	to State Law 00 45 01	to Sales Tax 00 45 02	Interest 00 45 03	Certification 00 45 03	Addendum 1 and 2	Statement 00 45 13	Base Bid	Extra Work	Total Bid Cost
Parish Hare	Х	Note 2	Х	Х	Note 3	Х	Х	Note 4	\$ 930,067.00	\$ 366,112.00	\$ 1,296,179.00
Elliot Electrical Supply	Х	Х	Х	Х	Х	Х	7	Note 4	\$ 663,500.00	\$ 38,400.00	\$ 701,900.00

Notes:

- 1 Parish Hare took exceptions to general conditions, contract duration and various technical requirements of the electrical equipmen
- 2 Parish Hare filled out the Bid Bond form but did not sign it or supply a bid bond
- 3 Parish Hare marked "N/A" for conflict of interest, FNI has assumed that no conflict of interest exist
- 4 Bidder did not complete the manufacturers information in the qualifications statement.
- 5 Parish Hare did not multiply the extra work items by the number of weeks resulting in a tabulation error of -\$344,480
- 6 Addendum 2 is not acknowledged in Section 00 41 13. It was acknowadged on the cover of the envelope

Bid Tabulation Owner: Design Professional: Prepared By:	Lake Texoma Pump Station MCC Procurement GTUA/City of Sherman Freese and Nichols Lewis Bernard, PE	Bid Opening: September 11, 2023			Parish Hare Electrical Supply 4921 Conflans Rd. Irving, TX 75061 ph 214-424-4773 email: bwolf@parish-hare.com				Elliot Electric Supply 2526 North Stallings Drive Nacogdoches, TX 75964 ph 936 569 1184 email: Contracts@elliotelectric.com			
Item No.	Unit		Estimated Quantity		Unit Price	Extended Amount			Unit Price	ice Extended Amoun		
Base Bid Items												
BC-01	Medium Voltage MCC	LS	1	\$	286,751.00	\$	286,751.00	\$	323,600.00	\$	323,600.00	
BC-02	Medium Voltage Switchgear	LS	1	\$	593,316.00	\$	593,316.00	\$	289,900.00	\$	289,900.00	
Α	A Total Amount of Base Contract Items					\$	880,067.00			\$	613,500.00	
Allowances in Base Bid Items												
D-01	Contingency Allowance	LS	1	\$	50,000.00	\$	50,000.00	\$	50,000.00	\$	50,000.00	
В	Total Allowance Amount					\$	50,000.00			\$	50,000.00	
ВС	Subtotal Base Contract (Sum of A and B)					\$	930,067.00			\$	663,500.00	
Extra Work Item	s in Contract											
EW-01	Medium Voltage MCC Storage	Weeks	12	\$	8,316.00	\$	99,792.00	\$	1,200.00	\$	14,400.00	
EW-02	Medium Voltage Switchgear Storage	Weeks	20	\$	13,316.00	\$	266,320.00	\$	1,200.00	\$	24,000.00	
EW	EW Total Amount of Extra Work Items					\$	366,112.00			\$	38,400.00	
TC	Total Contract Amount with Extra Work Items (Sum of BC and EW)				_	\$	1,296,179.00			\$	701,900.00	

Lewis Bernard

From: Colin Price <ColinPrice@elliottelectric.com>
Sent: Thursday, September 14, 2023 10:57 AM

To: Lewis Bernard Cc: Daniel Jock

Subject: Lake Texoma Pump Station Motor Control Center Procurement

Attachments: DA750817X3K2-0000-28-M-QuickPrint_Lake_Texoma_PS_MV_SHM_Gear_2 (1).PDF

[You don't often get email from colinprice@elliottelectric.com. Learn why this is important at https://aka.ms/LearnAboutSenderIdentification]

This is an email from an EXTERNAL source. DO NOT click links or open attachments without positive sender verification of purpose. Never enter USERNAME, PASSWORD or sensitive information on linked pages from this email. Please report all suspicious messages using the Report Message button in Outlook.

Hey Lewis,

Thanks for taking my call this morning. I have Daniel Jock on this email as well. He is the Head Estimator for Elliott Electric.

We did quote through Addendum 2. We are working on getting that signed and over to you. It was just missed by our Corporate office when we sent it.

The Gear Manufacture is Eaton. Attached is the basic BOM and drawings.

Thank you,

Colin Price

Outside Sales/ Gear Specialist

Cell: 817-875-8438

colinprice@elliottelectric.com<https://nam11.safelinks.protection.outlook.com/?url=https%3A%2F%2Fmail.elliottelectric.com%2Fowa%2Fredir.aspx%3FC%3Dt1hUnB2-1IDaP-

1EnHm9f26Is9QqHtY4z2_chd1ZvY_xrv4glWvYCA..%26URL%3Dmailto%253acolinprice%2540elliottelectric.com&data=05%7C01%7CLewis.bernard%40freese.com%7C008bcf363c084acb417008dbb53b7eeb%7C191657eabcff43859d04659ef9cee515%7C0%7C0%7C638303039574157173%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTil6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=6FpNiAXuTkkVOr%2BfaXTZpmeKvXo5Ata7JDpztxK7134%3D&reserved=0>





GREATER TEXOMA UTILITY AUTHORITY AGENDA COMMUNICATION

DATE: October 11, 2023

SUBJECT: AGENDA ITEM NO. XIII

PREPARED AND SUBMITTED BY: Paul M. Sigle, General Manager

CONSIDER AND ACT UPON THE SUPPLEMENTAL AGREEMENT BETWEEN THE SECRETARY OF THE ARMY AND NORTH TEXAS MUNICIPAL WATER DISTRICT AND GREATER TEXOMA UTILITY AUTHORITY FOR ADDITIONAL EASEMENT RIGHT OF WAY FOR THE LAKE TEXOMA PUMP STATION.

ISSUE

Consider and act upon the supplemental agreement between the Secretary of the Army and North Texas Municipal Water District and Greater Texoma Utility Authority for additional easement right of way for the Lake Texoma Pump Station.

BACKGROUND

The City of Sherman is executing a major infrastructure improvements program to meet the fast-growing needs of the city including industrial, commercial and residential users. The city needs to complete certain key infrastructure projects to meet the planned industrial expansion needs of significant industrial users before 2025.

In order to create resilience in North Texas Municipal Water District (NTMWD) and City of Sherman's water system, an electrical improvements project in underway in order to provide backup power to for the Lake Texoma Pump Stations.

CONSIDERATIONS

As part of the electrical improvements project, additional easement for the U.S. Army Corps of Engineers (USACE) is need to new electrical buildings and backup generators. NTMWD has obtain the easement amendment from USACE. The Authority Attorney has reviewed the easement document and has found no issues with the agreement.

STAFF RECOMMENDATIONS

The Authority Staff recommends approving the easement agreement with USACE and NTMWD.

ATTACHMENT

Easement Agreement

SUPPLEMENTAL AGREEMENT NO. 2 EASEMENT NO. DACW56-2-87-158 LAKE TEXOMA, TX

SUPPLEMENTAL AGREEMENT BETWEEN THE SECRETARY OF THE ARMY AND NORTH TEXAS MUNICIPAL WATER DISTRICT and THE GREATER TEXOMA UTILITY AUTHORITY

THIS SUPPLEMENTAL AGREEMENT, made and entered into on behalf of the United States, THE SECRETARY OF THE ARMY, hereinafter called the Government, and North Texas Municipal Water District, whose mailing address is PO Box 2408, Wylie, TX 75098-2408, and Greater Texoma Utility Authority, whose mailing address is 5100 Airport Drive, Denison, TX 75020, hereinafter called the Grantee;

WITNESSETH THAT:

WHEREAS, Easement No. DACW56-2-87-158, hereinafter called the original easement, for a term of Forty (40) years beginning February 2, 1987, was granted to the Grantee by authority of the Secretary of the Army for construction, operation, and maintenance of a water pipeline and related facility purposes at the Lake Texoma project area at the location described therein; and

WHEREAS, Supplemental Agreement No. 1, that amended the original easement to add Greater Texoma Utility Authority as joint grantee, dated June 16, 1987; and

WHEREAS, the grantee has requested that original easement be amended to include the extension of the current term to add an additional 10 years, extend the easement right of way by adding an additional parcel of land identified in Exhibit A-1 and illustrated in Exhibit B-1 for the construction, operation and maintenance of an electrical building and related facilities; and adding Condition 24. Paid Sick Leave Requirement (Executive Order 13706), and Condition 25. Minimum Wage Requirement (Executive Order 13658); and

NOW, THEREFORE, in consideration of the mutual benefits inuring to both parties, the original easement is hereby amended in the following respects and none other:

FIRST, the term of the original lease is hereby deleted and replaced by the following term of FIFTY (50) years beginning February 2, 1987, and ending February 1, 2037.

SECOND, the legal description, attached hereto and identified as Exhibit A-1, and the map, attached hereto and identified as Exhibit B-1, are added to the original easement, and by this reference made a part hereof.

THIRD, add Condition 24. Paid Sick Leave Requirement (Executive Order 13706), and Condition 25. Minimum Wage Requirement (Executive Order 13658)

24. MINIMUM WAGE REQUIREMENT (EXECUTIVE ORDER 13658)

- a. It has been determined this contract is not subject to Executive Order 13658 or the regulations issued by the Secretary of Labor in 29 CFR part 10 pursuant to the Executive Order, and the following provision.
- b. If a duly authorized representative of the United States discovers or determines, whether before or subsequent to executing this contract, that an erroneous determination regarding the applicability of Executive Order 13658 was made, contractor, to the extent permitted by law, agrees to indemnify and hold harmless the United States, its officers, agents, and employees, for and from any and all liabilities, losses, claims, expenses, suits, fines, penalties, judgments, demands or actions, costs, fees, and damages directly or indirectly arising out of, caused by, related to, resulting from or in any way predicated upon, in whole or in part, the erroneous Executive Order 13658 determination. This includes contractor releasing any claim or entitlement it would otherwise have to an equitable adjustment to the contract and indemnifying and holding harmless the United States from the claims of subcontractors and contractor employees.

25. PAID SICK LEAVE REQUIREMENT (EXECUTIVE ORDER 13706)

It has been determined this contract is not subject to Executive Order 13706 or the regulations issued by the Secretary of Labor in 29 CFR part 13 pursuant to the Executive Order.

IT IS FURTHER AGREED that this Supplemental Agreement shall become effective on the date of execution in behalf of the Government, and THAT the original easement shall in all other respects remain in full force and effect.

IN WITNESS WHEREOF, I have hereunto set my hand by authority of the		
Secretary of the Army this	(date)	
	Terry D. Rupe Chief, Real Estate Real Estate Contracting Officer	
THIS SUPPLEMENTAL AGRE	EEMENT is also executed by the Grantee this	
(uate)		
NORTH T	EXAS MUNICIPAL WATER DISTRICT:	
	Ву:	
	Title: DEPUTY DIRECTOR	
	469 - 626 - 4323 Phone Number	
GREATER	R TEXOMA UTILITY AUTHORITY:	
	By:	
	Title:	
	Phone Number	

ACKNOWLEDGMENT

STATE OF OKLAHOMA	*		
COUNTY OF TULSA): ss)		
On this day	y of	,	, before me the
undersigned Notary Public,	personally appeared	Terry D. Rupe,	Chief, Real Estate,
Real Estate Contracting (Officer , Tulsa District	Corps of Engine	ers, known to me to be
the person described in the	foregoing instrumen	t, who acknowled	Iged that he executed
the same in the capacity th	erein stated and for t	he purposes there	ein contained.
IN WITNESS WHER	REOF, Thave hereunt	o set my hand an	d official seal.
Notary Public			
My Commission Expires: My Commission Number:			

ACKNOWLEDGMENT NORTH TEXAS MUNICIPAL WATER DISTRICT

STATE OF TEXAS)): ss
COUNTY OF COLLIN)
On this
IN WITNESS WHEREOF, I have hereunto set my hand and official seal.
Graunne Bumberger
Notary Public
My Commission Expires: 06/29/2006 My Commission Number: 3/ 624 980

ACKNOWLEDGMENT GREATER TEXOMA UTILITY AUTHORITY

STATE OF OKLAHOMA)	
): ss COUNTY OF TULSA)	
On this day of	,, before me the
undersigned Notary Public, personally appe	ared,
known to me to be the person described in t	the foregoing instrument, who acknowledged
that he executed the same in the capacity th	nerein stated and for the purposes therein
contained.	
IN WITNESS WHEREOF, I have here	eunto set my hand and official seal.
Notary Public	
My Commission Expires:	

CERTIFICATE OF AUTHORITY NORTH TEXAS MUNICIPAL WATER DISTRICT

I, <u>Shown a Helmberger</u> , certify that I am the <u>Notary</u> (Name) (Secretary or Attesting Officer)		
of the North Toxas Municipal Water, named as grantee/lessee/licensee herein;		
that Consider Name) (Agency Name) (Agency Name) (Agency Name) (Agency Name)		
of said North Texas Municipal Water, was then Deputy Director (Agency Name) District (Officer Title)		
of the Agency; and that said Agreement was duly signed for and on behalf of		
the North Terms Numerocal World'by authority of its governing body and is (Agency Name) District		
within the scope of its statutory powers.		
Signed, Raukes Melmbuyer Secretary or Attesting Officer		

This form certifies that the person signing the attached instrument has the authority to do so. The signature of the Secretary/Attesting Officer and the Individual signing the attached instrument cannot be the same.

(The person that signed the attached instrument cannot sign Certificate)

CERTIFICATE OF AUTHORITY GREATER TEXOMA UTILITY AUTHORITY

I.	certify that I am the
(Name)	_, certify that I am the(Secretary or Attesting Officer)
of the(Agency Name)	, named as grantee/lessee/licensee herein;
that(Officer Name)	, who signed this Agreement on behalf
of said(Agency Name)	, was then(Officer Title)
of the Agency; and that said Agreer	ment was duly signed for and on behalf of
the(Agency Name)	by authority of its governing body and is
within the scope of its statutory pow	vers.
Signed, Secretary or Attesting (Officer
(The person that signed the attached ins	strument cannot sign Certificate)

This form certifies that the person signing the attached instrument has the authority to do so. The signature of the Secretary/Attesting Officer and the Individual signing the attached instrument cannot be the same.

EASEMENT DESCRIPTION

BEING a 2.0360 acres (88,688 square feet) tract of land situated in the Greenberry Gates Survey, Abstract No. 443, Grayson County, Texas, being a portion of a called 156.05 acre tract of land described in Warranty Deed to United States of America recorded in Volume 422, Page 397 of the Deed Records of Grayson County, Texas and being more particularly described as follows:

COMMENCING at a 3-1/4" aluminum disk stamped "DEPARTMENT CORPS OF ENGINEERS US ARMY" found for the southeast corner of Lot 9 of Hanna Cove Estates, an addition to Grayson County, Texas recorded in Volume 8, Page 15 of the Map Records of Grayson County, Texas, an ell corner of said United States of America tract and an ell corner of an existing North Texas Municipal Water District Easement recorded in Volume 1961, Page 169 of the Deed Records of Grayson County, Texas;

THENCE with the east line of said Hanna Cove Estates addition and the west line of said existing North Texas Municipal Water District Easement, North 1°55'58" East, a distance of 503.36 feet to the **POINT OF BEGINNING**, said point being in the north line of said existing North Texas Municipal Water District Easement;

THENCE with the said east line of the Hanna Cove Estates addition and an east line of the Riverview addition, an addition to Grayson County, Texas according to the plat recorded in Volume 2, Page 35 of the Map Records of Grayson County, Texas, North 1°55'58" East, a distance of 326.94 feet to a point for corner, from said point a 1/2" iron rod found bears North 1°55'58" East, 104.70 feet;

THENCE departing said east line of the Riverview addition and crossing said United States of America tract, the following courses and distances:

North 70°22'40" East, a distance of 328.55 feet to a point for corner,

South 19°37'20" East, a distance of 152.68 feet to a point for corner,

South 82°20'59" East, a distance of 276.18 feet to a point for corner, said point being in the said north line of the existing North Texas Municipal Water District Easement;

THENCE continuing across said United States of America tract and with the said north line of the existing North Texas Municipal Water District Easement, the following courses and distances:

South 77°25'27" West, a distance of 3.86 feet to a point for corner,

South 89°26'40" West, a distance of 231.02 feet to a point for corner,

South 69°41'40" West, a distance of 283.00 feet to a point for corner,

South 43°06'38" West, a distance of 212.61 feet to the **POINT OF BEGINNING** and containing 2.0360 acres or 88,688 square feet of land.

Bearing System based on the Texas Coordinate System of 1983, North Central Zone (4202), North American Datum of 1983.

NORTH TEXAS MUNICIPAL WATER
DISTRICT EASEMENT
GREENBERRY GATES SURVEY,
ABSTRACT NO. 443
GRAYSON COUNTY, TEXAS

J. ANDY DOBBS
REGISTERED PROFESSIONAL
LAND SURVEYOR NO. 6196
13455 NOEL ROAD
TWO GALLERIA OFFICE TOWER,
SUITE 700
DALLAS, TEXAS 75240
PH. (972) 770-1300

andy.dobbs@kimley-horn.com

J. ANDY DOBBS

6196

SURVEY

S

Kimley >>> Horn

13455 Noel Road, Two Gallard Office
Tower Style 700, Dallas Teygs 78240

FIRM # 10115500

Fax No. (972

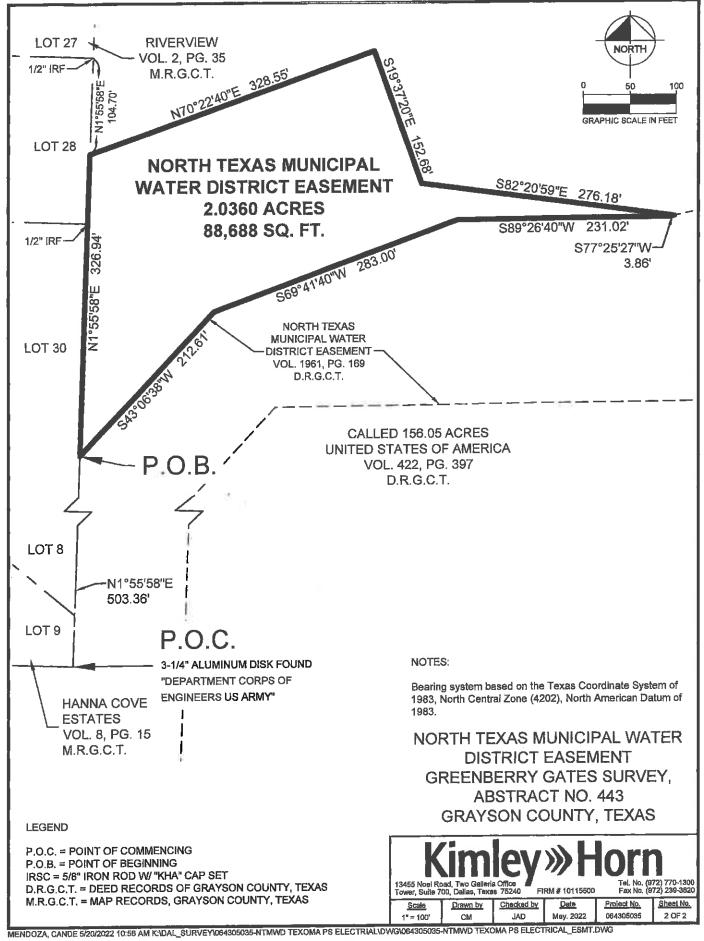
r, Sulte 700, Dallas, Texas 75240 FIRM #

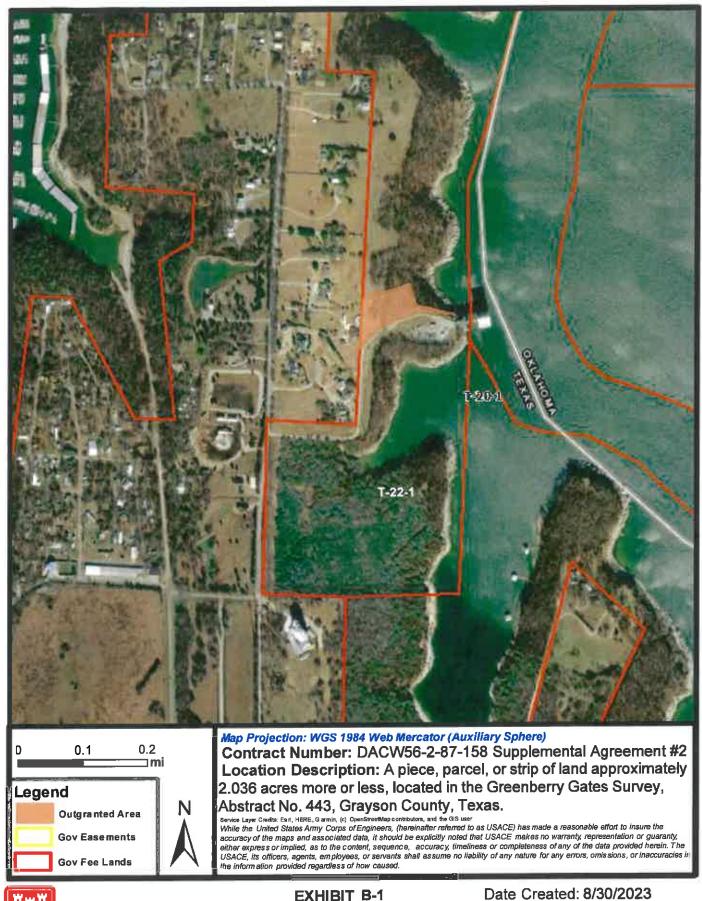
IRM # 10115500

Tel. No. (972) 770-1300 Fax No. (972) 239-3820 fect No. Sheet No.

1 OF 2

N/A CM JAD May 2022 064305035











GREATER TEXOMA UTILITY AUTHORITY AGENDA COMMUNICATION

DATE: October 11, 2023

SUBJECT: AGENDA ITEM NO. XIV

PREPARED AND SUBMITTED BY: Paul M. Sigle, General Manager

CONSIDER AND ACT UPON THE AWARD OF CONTRACT FOR CITY OF SHERMAN'S EDR REHAB. BP-2 METERS, GAUGES AND FLOWMETERS.

ISSUE

Consider and act upon the award of contract for City of Sherman's EDR Rehab. BP-2 Meters, Gauges and Flowmeters.

BACKGROUND

The City of Sherman has requested assistance in obtaining funding for improvements to the City's water and wastewater system. These improvements include engineering, design, and construction of projects including but not limited to water treatment plant expansion, water and sewer lines improvements, Lake Texoma Pump Station improvements, and wastewater treatment plant expansion. The Board will be provided with further information on the projects at the Board meeting.

The recent open market bond issuance for the City of Sherman include funds for rehabbing the Water Treatment Plant. The Electrodialysis Reversal (EDR) process is used to filter out dissolved minerals and salts that are not able to be removed in the conventional sand/carbon filters. The raw water source for the Water Treatment Plant comes from Lake Texoma which has a high salt content. As the raw water is treated a portion of the flow is passed through the EDRs and the filtered water is returned to the flow. The result is an overall reduction of minerals/salts and an improved potable water for drinking and industrial use. Approval will allow the replacement of the existing 96 EDR filter stacks with modern stacks and modern technology. This project is part of the overall conventional treatment rehabilitation program and supports regaining 10 MGD conventional treatment capacity.

CONSIDERATIONS

The City of Sherman received bids for an assortment of meters, gauges and flowmeters for the City's EDR Rehabilitation Project on August 31, 2023, at 2:00 PM. The City only received one bid from Vector Controls, LLC in the amount of \$161,957.16. The City's Engineers have reviewed the bid and have found the bid is acceptable.

STAFF RECOMMENDATIONS

The Authority Staff recommends the award of the contract to Vector Controls in the amount of \$161,957.16 for the City of Sherman Water Treatment Plant Conventional Treatment Rehabilitation Program. This item is contingent upon the City's approval.

ATTACHMENTS

Letter of Recommendation



September 8, 2023

GTUA/City of Sherman 220 W Mulberry St. P.O. Box 1106 Sherman, TX 75091 (903) 892-7208

Re: EDR Rehab. BP-2 Meters, Gauges and Flowmeters

Dear GTUA/City of Sherman:

Request for Competitive Sealed Proposals "CSP" for the EDR Rehab. Project was received by the City of Sherman on August 31, 2023, from the proposer listed below. The program management team has reviewed and evaluated the CSP and made the following recommendation:

1) Vector Controls, LLC score 76/100

We recommend the award of the contract to Vector Controls, LLC., and that contract negotiations begin immediately to align contract terms and conditions, cost, quality, and schedule strategies listed in the proposal.

Sincerely,

Toby Flinn, PE Vice President

Win C. Flin

Enclosures

1. Evaluation Tabulation of Scores

Greater Texoma Utility Authority- On Behalf of City of Sherman Major Infrastructure Improvements Program Offeror Selection Worksheet

Tabulation of Scoring

EDR Rehab. BP- 2 Meters, Guages and Flowmeters

Vector Controls CMI Criteria Criteria **Points** M. Dwaynie 4.0 Α 5.0 Compliance with Proposal submission requirements Pass/Fail В pass Ability to Provide Bonds and Insurance C 45 40.0 **Proposal Price** 25 20.0 D Ability to Meet Project Milestones Ε Qualifications 15 7.0 Similar Project Experience / Past Performance F 10 5.0 **Total Points** 100.0 76.00





GREATER TEXOMA UTILITY AUTHORITY AGENDA COMMUNICATION

DATE: October 11, 2023

SUBJECT: AGENDA ITEM NO. XV

PREPARED AND SUBMITTED BY: Paul M. Sigle, General Manager

CONSIDER AND ACT UPON CHANGE ORDER NO. 1 TO THE CONTRACT WITH RED RIVER CONSTRUCTION CO. FOR THE CITY OF SHERMAN POST OAK WWTP AERATION AND OTHER SECONDARY IMPROVEMENTS.

ISSUE

Consider and act upon Change Order No. 1 to the contract with Red River Construction Co. for the City of Sherman Post Oak WWTP Aeration and Other Secondary Improvements.

BACKGROUND

The City of Sherman staff approached the Authority staff requesting financial assistance for several upcoming capital improvement projects. After several meetings with the City staff, we identified the projects that we believe are ideal candidates to take advantage of the below market interest rate savings through the Texas Water Development Board's ("TWDB") Clean Water State Revolving Fund ("CWSRF"). Projects requested to be funded through the CWSRF include 1) Aeration Basin and Other Secondary Improvements, Phase II; 2) Biological Clarifier Rehabilitation; 3) WWTP Control Building Expansion; 4) Brine Line Project (engineering, bores, rights-of-way, construction); and 5) WWTP Storm water Lift Station. These improvements are all identified in the City of Sherman's 5-year Capital Improvements Plan that they develop annually.

In January 2020, the Board and City of Sherman Council approved the Bond Resolution which authorized the issuance of \$13,595,000 through the TWDB's CWSRF program. The Authority was able to procure a special class of CWSRF funds called the Equivalency Funds, which offers below market interest rates. The interest rate received for this issuance was 0.29% for a 20-year term. The TWDB estimates that the City of Sherman could save approximately \$2.1 million over the life of the loan by using the CWSRF.

This project consists of a new Electrical Building of CMU construction; replacement of three multistage centrifugal blowers; façade, HVAC and lighting improvements at existing Blower Building; replacement of aeration diffusers and grids, air valves, and air flow meter at Aeration Basins; replacement of 14 gates at the Aeration Basin, three gates and three telescoping valves at the Clarifier Control Station; replacement of existing screw lift pump with immersible pump, four gates, FRP Parshall flume liner, miscellaneous valves at Aeration Basin Lift Station; and replacement of mechanism, control panel, effluent weirs, troughs, box, at three Bio-Clarifiers. The City selected Red River Construction in March of 2021 for the project.

CONSIDERATIONS

Change Order #1 added additional apprentices, and credit the City for items not needed during the rehab. The Change Order explain all the changes. These changes reduce the contract price by \$11,730.93.

STAFF RECOMMENDATIONS

The Authority Staff recommends approving Change Order #1 to decrease the contract price by \$11,730.93, resulting in a final contract price of \$5,633,069.07. The City has approve Change Order #1.

ATTACHED

Change Order #1

CHANGE ORDER (CO)

OWNER	Greater Texoma Utility Authority on behalf of City of Sherman	Project No.
PROJECT	Post Oak WWTP Aeration and Other Secondary Improvements	6718
CONTRACTOR	Red River Construction Co.	352
ENGINEER	Perkins Engineering Consultants, Inc.	SHE 18-002

Texas Water Development Board (TWDB) Project No. 73846

CO No.	01	RE:	CMR-001 4-ton to 5-ton hoist at Aeration Basin Lift Station
			CMR-005 Additional Aluminum Grating
			CMR-006 Additional 4-inch Air Valve
			CMR-007 East Aeration Basin Cleanout
			CMR-008 Repair of Existing Leaking Air Piping at Flanges
			Ovivo Providing Standard vs Specified FRP Clarifier Troughs
			Plant Extended Shutdown to Avoid Bypass Pumping (Line 1.120)
			Additional Sidewalk (not shown) (Line BI #6)
			Additional Concrete Paving (not shown) (Line BI #7)

CHANGE IN CONTRACT PRICE:

Original Contract Amount	\$5,644,800.00
Change Order No. 1 (Decrease)	\$(11,730.93)
Revised Contract Amount	\$5,633,069.07

CHANGE IN CONTRACT TIMES:

Original Contract Times in Calendar Days	550 Days
Change Order No. 1 (Increase)	93 Days
Date of Substantial Completion	February 4, 2023
Date of Final Completion	March 6, 2023

DESCRIPTION OF CHANGE ORDER:

CMR-001 4-ton to 5-ton hoist at Aeration Basin Lift Station \$5,250.89

Description – Replacement hoist at Aeration Basin Lift Station (ABLS) specified at 4 tons. Due to weights of immersible pumps approaching 4 tons and corrosive nature of environment, increasing hoist capacity to 5 tons is recommended.

No additional days requested.

CMR-005 Additional Grating at ABLS, Approximately 4'-9" by 42'-6" \$14,947.28

Description – Replacement of additional area of corroded grating at Aeration Basin Lift Station not included in original construction project.

Request 2 additional days.

CMR-006 Additional 4-inch Air Valve \$4,944.92

Description – Count of 4-inch Air Valves at Aeration Basin Inlet and Outlet Channels undercounted during design by one. One additional valve needed to replace all air valves at three Aeration Basins.

Request 1 additional days.

CMR-007 East Aeration Basin Cleanout

\$10,318.21

Description – Removal of sludge from one Aeration Basin included in contract. Contractor removed sludge from West Aeration Basin due to drain valve being inoperable. City paid for removal of sludge from Middle Aeration Basin directly.

Request 5 additional days.

CMR-008 Repair of Existing Leaking Air Piping at Flanges \$8,095.77

Description – Welding repair of leaking existing air at three locations at gasketed flanges. Air leaks in stainless steel piping identified through the hissing sounds at each leak. Request 3 additional days.

Ovivo Providing Standard vs Specified FRP Clarifier Troughs Credit of \$15,000

Listed supplier of FRP Effluent Troughs at Secondary Clarifiers, MFG, constructed first set of troughs using standard design parameters versus specified. Deflections and other parameters determined to not impact plant operations. Materials difference for change in trough design determined by MFG to be \$5,000 per clarifier, \$15,000 total.

Plant Extended Shutdown to Avoid Bypass Pumping (Line 1.120) Credit of \$22,488

To avoid extended plant shutdown, bypass pumping of RAS was included in project during replacement of RAS Parshall flume. Plant was able to shutdown for extended timeframe using Equalization Basin and in plant storage to allow Contractor to avoid expense of bypass pumping.

BI #6 Additional Sidewalk (not shown) Unused amount of \$2,800.00

BI #7 Additional Concrete Paving (not shown) Unused amount of \$15,000.00

81 weather delay days documented on Payment Applications through the start of the project to June 2023. 12 additional days requested through CMRs for a total of 93 days.

RECOMMENDED BY: Perkins Engineering Consultants, Inc.	ACCEPTED BY: Red River Construction Co.
Ву:	Ву:
Title:	Title:
Date:	
APPROVED BY:	
City of Sherman	Greater Texoma Utility Authority
Ву:	Ву:
Title:	Title:
Date:	Date:





GREATER TEXOMA UTILITY AUTHORITY AGENDA COMMUNICATION

DATE: May 18, 2022

SUBJECT: AGENDA ITEM NO. XVI

PREPARED AND SUBMITTED BY: Paul M. Sigle, General Manager

CONSIDER AND ACT UPON THE AWARD OF CONTRACT FOR CITY OF BELL'S WWTP REHABILITATION.

ISSUE

Consider and act upon the award of contract for City of Bell's WWTP Rehabilitation.

BACKGROUND

The City of Bells requested the Authority staff to assist the City in obtaining funding from the Texas Water Development Board for rehabilitation of water distribution lines, a new water well, ground storage tank, pump station, generators at well sites, replacing water meters, SCADA, repairs to the wastewater treatment plant and likely some improvements to their wastewater collection system.

The Texas Water Development Board ("TWDB") State Revolving Funds were initially selected as the funding sources for these improvements. However, the TWDB informed the Authority staff in February that changes had been made to the SRF programs by limiting the amount of funding they are making available. The programs are now more difficult to qualify for and will take significantly more time to be funded if a project ends up qualifying. Due to these changes in the SRF program and discussions with TWDB, the Authority staff is proposing to pursue funding through the Texas Water Development Fund ("DFund"). The DFund is a state funded loan program with below market interest rates. This path forward was approved by the Board in February of 2021.

CONSIDERATIONS

The City of Bells received two bids on September 20, 2023 for the City's Wastewater Treatment Plant Rehabilitation. Urban Infraconstruction was the lowest bid at \$1,400,500 with and alternate of \$20,000. The City's Engineers reviewed the bids and have found the bid as acceptable. The Engineers is recommending accepting the alternate.

STAFF RECOMMENDATIONS

The Authority Staff recommends authorizing the General Manager to award the contract to Urban Infraconstruction in the amount of \$1,420,500. This item is contingent upon the City's approval.

ATTACHED

Engineer's Letter of Recommendation



3525-006-01

October 1, 2023

Mr. Cody Nelson City of Bells 203 S. Broadway Street. Bells, Texas 75414

Re: City of Bells

Wastewater Treatment Plant Rehabilitation

Recommendation of Award

Dear Mr. Nelson:

On Wednesday, September 20, 2023, two bids from general contractors were received, opened, and publicly read aloud at the City Hall in Bells, Texas for the above-referenced project. The contractors provided a complete bid based on the Statement of Qualifications received for the above-referenced project on September 20, 2023. The bids were as follows:

Bid Item	Horton Excavating	Urban Infraconstruction
Total Base Bid	\$1,600,000.00	\$1,400,500.00
Alt Item	Horton Excavating	Urban Infraconstruction
Alt – 1	\$740,000.00	\$20,000.00

Urban Infraconstruction was the apparent low bidder with a Total Base Bid of \$1,400,500.00. The Engineer's final opinion of probable construction cost was \$1,100,000.00. The bid proposal included one alternate item. Plummer recommends the District proceed with Alternate Item 1 for an additional \$20,000. The complete bid tabulation is attached to this letter for your reference. We have contacted the surety company and the bid bond is in good standing meeting specifications. Therefore, we recommend award of the total base bid with selected Alternate (Alt - 1) to Urban Infraconstruction in the amount of \$1,420,500.00 contingent additional oversight by the Owner's Representative is provided for the project due to schedule delay and quality concerns with on-going Plummer/Urban Infraconstruction projects.

Mr. Nelson Page 2 October 1, 2023

If you have any questions concerning this recommendation, please contact me at 817-806-1718. We look forward to the construction phase of this important project for the Participants.

Sincerely,

PLUMMER ASSOCIATES, INC.

Paula A. Monaco, Ph.D, P.E. – TX 132844 Wastewater Treatment Team Leader

Paula a. Monaco

PAM/aa

Enclosure(s)

Electronic cc only: Mr. Michael Schmitz, Antero Group, mschmitz@anterogroup.com

Mr. David Howerton, Plummer, dhowerton8001@plummer.com

Ms. Nichole Murphy, GTUA, nichole@gtua.org



CITY OF BELLS WASTEWATER TREATMENT PLANT REHABILITATION



Date/Time for Receiving Bids: 2:00 p.m. - Wednesday, September 20, 2023

Engineer's Final OPCC = \$1,100,000

ITEM					Horton Excavating			Urban Infraconstruction		
Confirmed Receipt of Addendums 1-2					Yes			Yes		
Section 00 41 13 - Bid Proposal					Yes			Yes		
Section 00 43 13 - Bid Security Form					Yes			Yes		
Section 00 43 19 - Contractor Compliance to State Law					Yes			Yes		
Section 00 45 19 - Non-Collusion Statement					Yes			Yes		
Conflict of Interest Questionnaire					Yes			Yes		
Evidence of Bidder's authority and qualification to do business in Texas					Yes			Yes		
Bidder's State Contractor License Number					Yes			Yes		
Prebid Attended (Non-mandatory)					No			No		
Total Base Bid (Items 1 - 6)					\$ 1,600,000.00			\$ 1,400,500.00		
Total Base Bid (None 1 0)						1,000,000.0	+	Ψ	.,,	
ITEM NO.	UNIT	EST. QTY.	DESCRIPTION OF ITEM	ι	JNIT PRICE	AMOUNT BI	ь	UNIT PRICE	AMOUNT BID	
1	LS	1	For construction of all Work required to complete in place and place in operation the Bells Wastewater Treatment Plant Rehabilitation as shown on the Plans and described in the Specifications, (except for Bid Items as listed separately below) for a total lump sum amount of		1,192,000.00	\$ 1,192,000.	00	\$ 880,000.00	\$ 880,000.00	
2	LF	30	For development, design, and implementation of a trench safety system and the assumption of responsibility of said system for the lump sum amount of	\$	100.00	\$ 3,000.	00	\$ 100.00	\$ 3,000.00	
3	LS	1	For development, design, and implementation of the Storm Water Pollution Prevention Plan, including necessary materials and coordination for compliance with storm water regulations and ordinances, furnished and installed, continuously monitored, complete and in place by plans and specifications, for a total lump sum amount of	\$	5,000.00	\$ 5,000.	00	\$ 5,000.00	\$ 5,000.00	
			For Electrical and Instrumentation work, complete in place for the lump	, v	0,000.00	ψ 0,000.		0,000.00	ψ 0,000.00	
4	LS	1	sum amount of	\$	300,000.00	\$ 300,000.	00	\$ 400,000.00	\$ 400,000.00	
5	CY	25	A Unit Price Bid Item for furnishing and installing Additional 4000 psi Class A concrete (for slabs on grade and grade beams), including excavation, forms, concrete, rebar, placement, and curing, as directed by OWNER, with all materials and labor, complete in place, per cubic yard of	\$	1,500.00	\$ 37,500.	00	\$ 3,000.00	\$ 75,000.00	
6	CY	25	A Unit Price Bid Item for furnishing and installing Additional 4000 psi Class A concrete (for items other than slabs on grade and grade beams), including excavation, forms, concrete, rebar, placement, and curing, as directed by OWNER, with all materials and labor, complete in place, per cubic yard of Total amount bid for bid items 1-6	\$	2,500.00	\$ 62,500. \$ 1,600,000.	00	\$ 1,500.00	\$ 37,500.00 \$ 1,400,500.00	
ALTERNATE ITEMS									,,	
Alt - 1	LS	1	For all work required to clean floors and walls of oxidation ditch without removing the unit from service as specified on Drawing M-300, and as further described in the Instructions to Bidders complete in place for the sum of	\$	740,000.00	\$ 740,000.	-	\$ 20,000.00	\$ 20,000.00	
		1	Total with Selected Alternate Items	1		\$ 2,340,000.	00		\$ 1,420,500.00	





GREATER TEXOMA UTILITY AUTHORITY AGENDA COMMUNICATION

DATE: October 12, 2023

SUBJECT: AGENDA ITEM NO. XVII

PREPARED BY: Debi Atkins, Finance Officer SUBMITTED BY: Paul M. Sigle, General Manager

REVIEW AND ACT UPON APPROVAL OF THE INVESTMENT POLICY

ISSUE

Review and act upon the Investment Policy as required by the Public Funds Investment Act.

BACKGROUND

The Authority is required by the Public Funds Investment Act to have an investment policy in place. The policy provides a framework and guidance document for the investment officers to manage the Authority's funds.

The Board's continual review of this policy is evidence that the Authority is responsible in its use of public funds. Two (2) Authority staff members attend the Public Funds Investment training on a bi-annual basis. Staff also tries to keep our attendance staggered in order to keep up with any changes that may occur.

CONSIDERATIONS

In 2017, the last year following relevant legislative changes, the Budget Committee met with staff and Valley View Consulting to review the proposed changes. The changes were incorporated into the Investment Policy, and the Policy was subsequently approved by the Board of Directors of the Greater Texoma Utility Authority.

The legislative session did not produce any changes to the Public Funds Investment Act that would impact the Authority's current investment policy. The Authority's Financial Advisor, Valley View Consulting, has reviewed the policy and recommended the red-lined changes.

STAFF RECOMMENDATIONS

The staff recommends the Board review and approve the proposed Investment Policy.

ATTACHMENTS

Investment Policy

GREATER TEXOMA UTILITY AUTHORITY

POLICY RESOLUTION #20.07

FISCAL MANAGEMENT AND INVESTMENT

Adopted: October __24, 20232

INVESTMENT POLICY

I. PURPOSE

A. Formal Adoption

This investment policy is authorized by the Greater Texoma Utility Authority Board of Directors in accordance with Chapter 2256, Texas Government Code, the Public Funds Investment Act (the "Act"). It is intended to provide guidelines to the Board of Directors and the investment officers to effectively supervise and manage the investment assets of the Authority.

B. Scope

This investment policy applies to all of the investment activities of the Greater Texoma Utility Authority, excluding the Employee Retirement Trust, and the deferred compensation plan. This policy establishes guidelines for those who can invest Authority funds, for how Authority funds will be invested, and for when and how a periodic review of investments will be made. In addition to this policy, bond funds (which shall include but not be limited to each construction fund, bond fund, revenue fund, and reserve fund), each enterprise fund, and the general fund shall be managed by their governing resolution and all applicable state and federal laws. The Authority will consolidate cash balances from all funds to maximize investment earnings. Investment income will be allocated to the various funds based on their respective participation and in accordance with generally accepted accounting principles.

C. Review and Amendment

The General Manager and the Board of Directors shall review this policy annually. This policy and any amendments must be approved and adopted by the Board of Directors at least annually.

D. Investment Strategy

The investment strategy must follow investment objectives for each particular fund according to the following priorities:

- 1. Understanding suitability of investments to the Authority's requirements,
- 2. Preservation and safety of principal,
 - a. Credit risk the Authority will minimize credit risk, the risk of loss due to the failure of the issuer or backer of the investment
 - **b.** Interest rate risk the Authority will minimize the risk that the interest earnings and the market value of investments in the portfolio will fall due to

changes in general interest rates

- 3. Liquidity,
- 4. Marketability prior to maturity of each investment,
- 5. Diversification, and
- 6. Yield.

II. INVESTMENT POLICIES

A. Eligible Investments

Investments described below are authorized by Chapter 2256, Texas Government Code, as eligible securities for the Authority. The purchase of specific issues may, at times, be restricted or prohibited by the General Manager and Board of Directors. Authority funds governed by this policy may be invested in:

- Obligations of the United States or its agencies and instrumentalities, including the Federal Home Loan Banks, but excluding principal-only and interest-only mortgage-backed securities, collateralized mortgage obligations, and real estate mortgage investment conduits.
- 2. Direct obligations of the State of Texas, or its agencies and instrumentalities.
- 3. Other obligations, the principal and interest on which are unconditionally guaranteed or insured by, or backed by the full faith and credit of, the State of Texas or the United States, or their respective agencies and instrumentalities, including obligations that are fully guaranteed or insured by the Federal Deposit Insurance Corporation or by the explicit full faith and credit of the United States.
- 4. Obligations of states, agencies, counties, cities, and other political subdivisions of any state having been rated as to investment quality by a nationally recognized investment rating firm and having received a rating of not less than "A" or its equivalent.
- 5. Fully collateralized repurchase agreements having a defined termination date, placed through a primary government securities dealer, as defined by the Federal Reserve, and secured by obligations described by 1-4 above, which are eligible investments under the Act, pledged with a third party selected or approved by the Authority, and having a market value of not less than the principal amount of the funds disbursed. The term includes direct security repurchase agreements entered into by the Authority and reverse repurchase agreements only obtained in connection with investment by the Authority in an Eligible Investment Pool or Money Market Mutual Fund. (All Authority repurchase agreement transactions shall be governed by a signed Master Repurchase Agreement as described in B.4. of this section.)

- 6. Certificates of deposit, and other forms of deposit, placed in compliance with the Act in state and national banks, savings and loan associations, and credit unions that are:
 - a. Guaranteed or insured by the Federal Deposit Insurance Corporation (FDIC), or its successor; or the National Credit Union Share Insurance Fund (NCUSIF), or its successor, or, secured by obligations authorized by the Public Funds Collateral Act;
 - **b.** Governed by a depository contract, as described in B.4., that complies with federal and state regulation to properly secure a pledged security interest; and,
 - Solicited for bid orally, in writing, electronically, or any combination of those methods.
- 7. Money market mutual funds regulated by the Securities and Exchange Commission that fully invest dollar-for-dollar all Authority funds without sales commissions or loads and whose investment objectives include seeking to maintain a stable net asset value of \$1.0000 per share. The Authority may not invest funds under its control in an amount that exceeds 10% of the total assets of any individual money market mutual fund.
- 8. Eligible investment pools as defined in Section 2256.016 of the Act provided that (a) investment in the particular pool has been authorized by the Board of Directors; (b) the pool shall have furnished the investment officers or other authorized representatives of the Authority an offering circular containing the information required by Section 2256.016(b) of the Act; (c) the pool shall furnish to the investment officers or other authorized representatives of the Authority investment transaction confirmations with respect to all investments made with it; (d) the pool shall furnish to the investment officers or other authorized representatives of the Authority, monthly reports that contain the information required by Section 2256.016(c) of the Act; (e) the pool's assets shall consist exclusively of the obligations authorized by the Act; and (f) whose investment philosophy and strategy are consistent with this policy and the Authority's ongoing investment strategy.

The Authority is not required to liquidate investments that were authorized investments at the time of purchase.

Not less than quarterly, the Investment Officers will monitor the credit rating for each held investment that has an Act required minimum rating. Any investment that requires a minimum rating does not qualify during the period the investment does not have the minimum rating. Prudent measures will be taken to liquidate an investment that is downgraded to less than the required minimum rating.

B. Protection of Principal

The Authority shall seek to control the credit risk due to the failure of a security issuer or grantor.

Such risk shall be controlled by investing only in the types of securities as defined in the policy; by qualifying the broker, dealer, and financial institution with whom the Authority will transact; by collateralization as required by law; and through portfolio diversification by maturity and type.

The purchase of individual securities shall be executed "delivery versus payment" (DVP) through the Authority's safekeeping agent. By so doing, Authority funds are not released until the Authority has received, through the safekeeping agent, the securities purchased.

1. Portfolio Diversification

The investment portfolio shall be diversified by:

- a. Limiting investments to avoid over concentration in securities from a specific issuer or business sector (where appropriate),
- b. Limiting investment in securities that have higher credit risks,
- c. Investing with varying maturities, and
- d. Continuously investing a portion of the portfolio in readily available funds such as financial institution deposits, local government investment pools, money market funds, or overnight repurchase agreements to ensure that appropriate liquidity is maintained in order to meet ongoing obligations.

Bond proceeds may be invested in a single investment (e.g., flexible repurchase agreement or similar structured investment) if the General Manager, the Finance Officer, and Secretary-Treasurer determine that such an investment complies with federal arbitrage restrictions and facilitates arbitrage recordkeeping and calculations.

2. Diversification by Investment Maturity

In order to minimize interest rate risk, investment maturities will not exceed the anticipated cash flow requirements of the funds. Maturity guidelines by fund are as follows:

a. Current Operating Funds

The weighted average days to maturity for the operating fund portfolio shall be less than 365 days and the maximum allowable maturity shall be three years. The maximum maturity for repurchase agreements shall be 30 days. The investment officers will monitor the average days to maturity level and make changes as appropriate.

b. Bond Proceeds

The investment maturity of bond proceeds (excluding reserve and debt service funds) shall generally be limited to the anticipated cash flow requirement or the "temporary

period," as defined by federal tax law. During the temporary period, bond proceeds may be invested at an unrestricted yield. After the expiration of the temporary period, bond proceeds subject to yield restriction shall be invested considering the anticipated cash flow requirements of the funds and market conditions to achieve compliance with the applicable regulations.

c. Debt Service Funds

Debt service funds shall be invested to ensure adequate funding for each consecutive debt service payment. The investment officers shall invest in such a manner as not to exceed an "unfunded" debt service date with the maturity of any investment. An unfunded debt service date is defined as a coupon or principal payment date that does not have cash or investment securities available to satisfy said payment.

d. Bond Reserve Funds

Market conditions, bond resolution constraints, and arbitrage regulation compliance will be considered when formulating reserve fund strategy. Maturity limitation shall generally not exceed the call provisions of the bond resolution and shall not exceed the final maturity of the bond issue.

e. Operating Reserve Funds

The anticipated cash requirements of other Authority funds will govern the appropriate maturity mix. Appropriate portfolio strategy shall be determined based on market conditions, policy compliance, Authority financial condition, and risk/return constraints. Maximum maturity shall not exceed five years.

3. Ensuring Liquidity

Liquidity shall be achieved by anticipating cash flow requirements, by investing in securities with active secondary markets, and by investing in financial institution transaction accounts (e.g., DDA, MMA, NOW), eligible money market mutual funds and eligible investment pools.

A security may be liquidated to meet unanticipated cash requirements, to re-deploy cash into other investments expected to outperform current holdings, or otherwise to adjust the portfolio.

4. Collateralization

Consistent with the requirements of state law, the Authority requires all bank, savings and loan association, and credit union deposits to be federally insured, or collateralized with eligible securities or Letters of Credit issued by a Federal Agency or Instrumentality. Financial institutions serving as Authority depositories will be required to sign a depository agreement with the Authority. The Agreement shall define the Authority's rights to the collateral in case of default, bankruptcy, or closing, and shall establish a perfected security interest in compliance with federal and state regulations, including:

- the agreement must be in writing;
- the agreement <u>musthes</u> to be executed by the depository and the Authority contemporaneously with the acquisition of the asset;
- the agreement must be approved by the Board of Directors or the loan committee of the depository and a copy of the meeting minutes must be delivered to the Authority; and
- the agreement must be part of the depository's "official record" continuously since its execution.

Repurchase agreements must also be secured in accordance with state law. Each counter party to a repurchase transaction is required to sign a copy of the Public Securities Association Master Repurchase Agreement, or similar agreement, as approved by the Authority. An executed copy of this agreement must be on file before the Authority will enter into any transactions with a counter party. All master repurchase agreements must be approved by the Board of Directors.

a. Collateral Levels

(1) Financial Institution Deposits

The market value of this principal portion of marketable security collateral pledged for financial institution deposits must at all times be equal to or greater than 102% of the deposit amount plus accrued interest on the deposit, less the applicable level of FDIC or NCUSIF insurance. The minimum level of Letters of Credit shall be 100% of principal plus anticipated accrued interest, less the applicable level of FDIC or NCUSIF insurance.

(2) Repurchase Agreements

A repurchase agreement's security value shall be the par value plus accrued interest, and the security's market value must be maintained at the following minimum levels:

Agreement Maturities Greater Than One Business Day

U.S. Treasury securities.....102%

U.S. agency and instrumentalities......103%

Agreement Maturities of One Business Day

All securities......100%

b. Monitoring Collateral Adequacy

(1) Financial Institution Deposits

The Authority shall require monthly reports with market values of pledged securities from all financial institutions with which the Authority has deposits. The investment officers will monitor adequacy of collateralization

levels to verify market values and total collateral positions.

(2) Repurchase Agreement

Routine monitoring by the investment officers of market values of all underlying securities purchased for the Authority in repurchase transactions is required. More frequent monitoring may be necessary during periods of market volatility.

c. Additional Collateral and Securities

(1) Financial Institution Deposits

If the collateral pledged for a deposit falls below the deposit value of the deposit, plus accrued interest, less FDIC or NCUSIF insurance, the institution holding the deposit will be notified by the investment officers and will be required to pledge additional collateral no later than the end of the next succeeding business day.

(2) Repurchase Agreements

If the value of the securities underlying a repurchase agreement falls below the margin maintenance levels specified above, the investment officers will request additional securities. If the repurchase agreement is scheduled to mature within five business days, and the amount is deemed to be immaterial, then the request is not necessary.

d. Collateral Release or Substitution

Collateralized deposits and repurchase agreements often require release or substitution of collateral. Any broker/dealer or financial institution may automatically substitute collateral of equal or greater value than the replaced security. The investment officers, or a designee, must provide written notification of the decision to the custodian/safekeeping agent holding the security prior to any security release. Substitution is allowable for all transactions, but should be limited, if possible, to minimize potential administrative problems and transfer expense. The investment officers may limit substitution and assess appropriate fees if substitution becomes excessive or abusive.

5. Safekeeping and Custody

a. Safekeeping/Custodial Agreement

The Authority shall contract with a bank or banks for the safekeeping of securities owned by the Authority as a part of its investment portfolio, or custodian of collateral as part of its depository and repurchase agreements.

b. Pledged Collateral Custodian

All collateral deposits must be held by a third-party institution eligible under the Public Funds Collateral Act and acceptable to the Authority, or by the Federal Reserve Bank.

c. Safekeeping of Repurchase Agreement Securities

The securities purchased under repurchase agreements must be delivered to a thirdparty safekeeping agent with which the Authority has established a safekeeping agreement.

C. Investment Broker/Dealers

Investment selection for all funds shall be based on legality, appropriateness, liquidity, and risk/return considerations. All Authority investment portfolios shall be actively managed to enhance overall interest income. Investment broker/dealers shall adhere to the spirit, philosophy, and specific term of this policy, and shall avoid recommending or suggesting transactions outside the same "Standard of Care" as defined in III. D.4.

1. Authorized Broker/Dealers

A list will be maintained of approved investment broker/dealers. These may include "primary" dealers or regional dealers that qualify under Securities and Exchange Commission Rule 153C-1 (uniform net capital rule).

All broker/dealers who desire to become qualified bidders for investment transactions must supply the following as appropriate and when requested:

- o Audited financial statements
- o Proof of Financial Industry Regulatory Authority (FINRA) certification and U4
- o Proof of state registration
- o Completed broker/dealer questionnaire

An annual review of the qualified broker/dealers will be conducted by the Board of Directors.

D. Responsibility and Controls

1. Administration

The administrative staff and the Board of Directors shall develop the policies for the Authority's investment portfolios. The guidelines and procedures established by this policy will at all times be adhered to by the Authority.

2. Authority to Invest

a. Designation of investment officers and delegation of authority regarding investment decisions

The Authority's Board of Directors designates the General Manager, and Finance

Officer and Senior Accountant having authority to make investment decisions (the

"investment officers"). No other person may deposit, withdraw, invest, transfer, o Commented [JH1]: Confirm Investment Officer titles remain manage in any other manner the funds of the Authority without express writter, authority of the Board, except that any investment officer may give written authorization for a member of the Authority's contract administrator's finance and accounting staff to execute electronic fund transfers between the Authority's financial institution accounts. Authority granted under this section is effective until rescinded by the Board or until termination of the person's employment or board membership or until the termination of the contract administrator's agreement.

b. The investment officers shall have the authority to:

- (1) Obtain and review competitive rates from qualified investment providers, financial institutions and broker/dealers.
- (2) Make or authorize the making of investments on behalf of the Authority.
- (3) Authorize or confirm the wire transfers of money of the Authority as authorized in this policy.
- (4) Maintain custody of all records of the Authority relating to its investment and management of its funds.
- (5) Perform or supervise the performance of any duties authorized to be performed by the Authority depository under this policy.
- (6) Prepare or supervise the preparation of periodic reports to be provided to the Board of Directors summarizing the investment and management of funds of the Authority.
- (7) Perform other duties as appropriate to implement this policy.
- c. The investment officers shall attend training, as required by Water Code 49.1571, relating to the investment officers' responsibilities within 12 months after taking office or assuming responsibilities. Training must include education in investment controls, security risks, strategy risks, market risks, diversification of investment portfolio, and compliance with the Act. The investment officers shall continue to participate in educational opportunities as needed to maintain their quality and capabilities for performing their duties.

The investment training session shall be provided by an independent source approved by the Board. For purposes of this policy, an "independent source" from which investment training shall be obtained shall include a professional organization, an institution of higher education or any other sponsor other than a business organization with whom the Entity may engage in an investment transaction.

3. Prudent Investment Management

The designated investment officers shall perform their duties in accordance with the adopted investment policy and internal procedures. The prudence of the Investment Officer is considered by the investment of all funds rather than a single investment. The Investment Officer, acting in accordance with written procedures and exercising due diligence, shall not be held personally responsible for a specific investment's credit risk or market price changes, provided that these deviations are reported immediately and the appropriate action is taken to control adverse developments.

4. Standard of Care

The standard of care used by the Authority and designated investment officers shall be the "prudent person rule" and shall be applied in the context of managing the overall portfolio within the applicable legal constraints. The Act states:

a. Investments shall be made with judgment and care, under prevailing circumstances, that a person of prudence, discretion, and intelligence would exercise in the management of the person's own affairs, not for speculation, but for investment, considering the probable safety of capital and the probable income to be derived.

Investment of funds shall be governed by the following investment objectives, in order of priority:

- (1) Preservation and safety of principal;
- (2) Liquidity; and
- (3) Yield.
- **b.** In determining whether an investment officer has exercised prudence with respect to an investment decision, the determination shall be made taking into consideration:
 - (1) The investment of all funds, or funds under the entity's control, over which the officer had responsibility rather than a consideration as to the prudence of a single investment; and
 - (2) Whether the investment decision was consistent with the written investment policy of the entity.

5. Standard of Ethics

The designated investment officers shall refrain from personal business activity that could conflict with the proper execution and management of the investment program, or that could impair their ability to make impartial decisions. Employees and investment officers shall

disclose any material interests in financial institutions with which they conduct business. They shall further disclose any personal financial/investment positions that could be related to the performance of the investment portfolio. Employees and officers shall refrain from undertaking personal investment transactions with the same individual with whom business is conducted on behalf of their entity. Additionally, all investment officers shall file with the Texas Ethics Commission and the Board of Directors a statement disclosing any personal business relationship with any entity seeking to sell investments to the Authority or any relationship within the second degree by affinity or consanguinity to an individual seeking to sell investments to the Authority.

6. Establishment of Internal Controls

The Board of Directors will oversee the investment officers in the maintenance of a system of internal controls over the investment activities of the Authority. The investment officers are responsible for establishing and maintaining an internal control structure designed to ensure that the assets of the entity are protected from loss, theft, or misuse. The internal control structure shall be designed to provide reasonable assurance that these objectives are met. The concept of reasonable assurance recognizes that the cost of a control should not exceed the benefits likely to be derived; and the valuation of costs and benefits requires estimates and judgments by management.

Accordingly, the investment officers shall establish a process for annual independent review by an external auditor to assure compliance with policies and procedures. The internal controls shall address the following points:

- a. Avoidance of collusion
- **b.** Separation of transactions authority from accounting and record keeping
- Custodial safekeeping
- **de.** Written confirmation for telephone (voice) transactions for investments and wire transfers

7. Reporting

Investment performance will be monitored and evaluated by the investment officers. The investment officers will provide a quarterly comprehensive report signed by all investment officers to the Board of Directors. This investment report shall:

- a. Include a listing of individual securities held at the end of the reporting period,
- **b.** State the reporting period beginning market value, additions or changes to the market value during the period, and ending market value for the period of each pooled fund group,

- **c.** State the reporting period beginning market value and ending market value for each investment security by asset type and fund type,
- **d.** State the maturity date of each investment security,
- e. State the fund for which each investment security was purchased,
- f. Include an average weighted yield to maturity of portfolio (the selected portfolio performance measurement) as compared to applicable benchmark,
- g. State the fully accrued interest for the reporting period,
- h. State the percentage of the total portfolio that each type of investment represents, and
- i. State the compliance of the investment portfolio with the Authority's investment policy and strategy of the Public Funds Investment Act.

The market value of the portfolio shall be calculated at least quarterly and a statement of the market value of the portfolio shall be issued at least quarterly. The source of pricing used to calculate market value will be sources independent from the transaction.

In conjunction with the annual audit, the quarterly reports shall be formally reviewed by an independent auditor, and the result of the review shall be reported to the Board by that auditor.

8. Investment Policy Certification

Local government investment pools and discretionary investment management firms shall be presented a written copy of this investment policy. The qualified representative of the business organization shall execute a written instrument substantially to the effect that the organization has:

- **a.** Received and reviewed this investment policy; and
- b. Acknowledged that the business organization has implemented reasonable procedures and controls in an effort to preclude imprudent investment activities with the Authority that are not authorized by the Investment Policy, except to the extent that this authorization is dependent on an analysis of the makeup of the Authority's entire portfolio; requires an interpretation of subjective investment standards; or relates to investment transactions of the Authority that are not made through accounts or other contractual arrangements over which the business organization has accepted discretionary investment authority.

The Authority shall not enter into an investment transaction with a business organization prior to receiving the written instrument described above.

	th its annual financial audit, shall perform a compliance a ence to the Authority's investment policy and strategies.	udit of managemen
On motion of	seconded by ted by the Board of Directors of the Greater Texoma Utility owing vote:	Authority this <mark>24tl</mark>
Voted "For"	Voted "Against"	Abstained
at a regular meeting of the Board	of Directors of the Greater Texoma Utility Authority.	
ATTEST:	President	
Secretary-Treasurer Policy source: Board Policy Manu	ual, Section 20.00, Policies on Finance	
2000 2000 2000 1000 1000		
GTUA Fiscal Management and Investment Police	cy	Page 13

Appendix A Approved Investment Training Sources

Association of Water Board Directors
Texas Rural Water Association
Texas Water Utilities Association
Government Finance Officers' Association
Government Finance Officers' Association of Texas
Government Treasurers' Organization of Texas
Council of Governments
University of North Texas Center for Public Management
American Institute of Certified Public Accountants
Association of Governmental Accountants

Appendix B Authorized Broker/Dealers

BOKF Financial FHN Financial Multi-Bank Securities SAMCO Capital Markets Wells Fargo Securities





GREATER TEXOMA UTILITY AUTHORITY AGENDA COMMUNICATION

DATE: October 11, 2023

SUBJECT: AGENDA ITEM NO. XVIII

PREPARED AND SUBMITTED BY: Paul M. Sigle, General Manager

DISCUSSION AND POSSIBLE ACTION ON A REQUEST FOR AN EASEMENT FOR GRAYSON COLLINS ELECTRIC COOP

ISSUE

Discussion and possible action on a request for an easement for Grayson Collins Electric Coop

BACKGROUND

Representatives from Grayson Collins Electric Coop (GCEC) has contacted the Authority requesting a 10-foot easement across property owned by the Authority for the CGMA Water System. The easement is to run underground electric under Highway 5 and CGMA Water Line.

CONSIDERATIONS

The Authority Staff would like to discuss with the Board who to proceed with the request for an easement along the property. GCEC provided their standard easement language, but the language would need to be change to include language to protect the CGMA Water System and the future plans for the system.

ATTACHED

GCEC Easement Language Map

ELECTRIC LINE EASEMENT AND RIGHT-OF-WAY

STATE OF TEXAS COUNTY OF	
DATE:	
DATE:,GRANTOR:	
GRANTOR'S PHYSICAL ADDRESS (incl (of easement location)	uding county):
GRANTEE: GRANTEES MAILING ADDRESS:	Grayson Collin Electric Cooperative, Inc. PO Box 548 Van Alstyne, Texas 75495-0548
	cal service and/or other benefits inuring to GRANTOR and/or Ten and No/100's dollars ation, the receipt and sufficiency of some consideration deemed valuable to GRANTOR ted by Grantor.
EASEMENT PROPERTY:	
	OPERTY is a tract of land consisting ofacres, more or less, more, field note description and plat, incorporated herein for all purposes.
The EASEMENT PROPERTY shall include use	of the subsurface below and air space above for the PURPOSE herein stated.

PROJECT: Electric transmission and/or electric distribution line or lines, consisting of a variable number and sizes of wires, cables and circuits, and all necessary or desirable appurtenances, appliances, facilities and equipment (including but not limited to supporting structures, insulators, transformers and other facilities whether made of wood, metal, or other materials) to consist of the Cooperative's infrastructure. The infrastructure will include, but is not limited to, 25 KV primary cables, secondary cables, secondary pedestals, conduits, vaults and manholes, padmounted sectionalizing enclosures, pad mounted transformers, padmounted switchgear and metering equipment as needed to provide Electric Service.

GRANTOR, for the CONSIDERATION received by GRANTOR, hereby grants, sells, and conveys to GRANTEE an EASEMENT appurtenant and Right-of-Way in, upon, and across the EASEMENT PROPERTY, together with all and singular the rights and appurtenances thereto in any wise belonging, to have and hold it to GRANTEE and GRANTEE's successors and assigns forever. GRANTOR also grants to GRANTEE right and authority to license, permit or otherwise agree to the joint use or occupancy of the line system, or facilities by any other person or entity for electrification, telephone, telegraph, television or other similar purposes.

PURPOSE: The EASEMENT, right-of-way, rights, and privileges herein granted shall be used for the purpose of providing electric utility service, constructing, placing, operating, maintaining, reconstructing, replacing, relocating, reconstituting, changing the size or nature of, rebuilding, upgrading, removing, inspecting, patrolling, and/or repairing the PROJECT or any part of the PROJECT, and making connections therewith and to undertake the same for any of the other joint uses authorized herein. The purpose shall also include use of the EASEMENT, right-of-way, rights and privileges granted herein for any use directly related to the PROJECT or financing of the PROJECT, including but not limited to archeological, historical, environmental, or other studies. GRANTEE shall have the right to place supporting structures for use in erecting or repairing the PROJECT. GRANTEE shall have the right to use such portion of the property along and adjacent to the EASEMENT Property and right-of-way as may be reasonably necessary in connection with the PURPOSES stated, or any one or more of them relating to the PROJECT, or any part thereof.

ACCESS: GRANTEE shall have the right of pedestrian, equipment, and vehicular ingress and egress at all times upon and across the EASEMENT PROPERTY for the above stated PURPOSE. GRANTEE shall also have the right of ingress and egress over existing roads across the adjacent or remainder property of GRANTOR for the purpose of obtaining access. In the event that access is not reasonably available over existing roads, GRANTEE shall have the right of reasonable ingress and egress over the adjacent property of GRANTOR along any route that is reasonable and appropriate under the circumstances then existing in order to obtain access. GRANTEE shall have the right to use such portion of the property along and adjacent to the EASEMENT PROPERTY and right-of-way as may be reasonably necessary in connection with the construction, reconstruction, repair or other Purpose stated above relating to the PROJECT, or any part thereof.

TERM: The EASEMENT and access rights granted herein, as well as the covenants made herein, shall be perpetual and appurtenant to the land, unless abandoned by the GRANTEE for a period of 10 years.

TREES: GRANTEE shall have the right to cut, trim, chemically treat with herbicides, and/or remove trees, shrubs, bushes, brush and vegetation within or adjacent to the EASEMENT PROPERTY or otherwise necessary to realize the PURPOSE herein stated.

STRUCTURES: GRANTOR shall not construct or locate on the EASEMENT PROPERTY any structure, obstruction or improvement. GRANTEE shall have the right to remove from the EASEMENT PROPERTY any structure, improvement, or obstruction and Grantor agrees to pay GRANTEE the reasonable cost of such removal and this agreement shall be a covenant running with the land for the benefit of GRANTEE.

DAMAGES: It is understood and agreed that the CONSIDERATION received by GRANTOR includes adequate compensation for all damages for the initial construction and all operation and maintenance of the project as well as all damages, if any, to GRANTOR's property which may occur in the future after the original construction of the PROJECT, directly resulting from GRANTEE's exercise of any PURPOSE. GRANTEE shall not be liable for damages caused by keeping the EASEMENT PROPERTY clear of trees, undergrowth, brush, and obstructions.

MINERALS: GRANTOR expressly reserves all oil, gas, and other minerals owned by GRANTOR, in, on, an under the EASEMENT PROPERTY, provided that GRANTOR shall not be permitted to, and shall not allow any party to, drill or excavate for minerals on or from the surface of the EASEMENT PROPERTY, but GRANTOR may extract oil, gas, or other minerals from under the EASEMENT PROPERTY by directional drilling or other means which do not interfere with or disturb GRANTEE's us of the EASEMENT PROPERTY.

OWNERSHIP: GRANTOR agrees that all poles, wires, cables, circuits, appurtenances, facilities, appliances and equipment installed upon the EASEMENT PROPERTY shall at all times remain the property of the GRANTEE and is removable at the option of the GRANTEE.

ASSIGNMENT AND MISCELLANEOUS: This instrument, and the terms and conditions contained herein, shall inure to the benefit of and be binding upon GRANTEE and GRANTOR, and their respective heirs, personal representatives, successors, and assigns. When the context requires, singular nouns and pronouns include the plural. When appropriate, the term "GRANTEE" includes the employees and authorized agents of GRANTEE.

WARRANTY: GRANTOR warrants and shall forever defend the EASEMENT to GRANTEE against anyone lawfully claiming or to claim the EASEMENT or any part thereof.

GRANTOR:

Signature;

Print;

STATE OF TEXAS

COUNTY OF ______

This instrument was acknowledged before me on this __ day of ______, _____, by
______, GRANTOR.

Notary Public, State of Texas

(Printed or Stamped Name of Notary)

My Commission Expires: ____

STATE OF TEXAS		
COUNTY OF		
This instrument was acknowledged before me on	this day of,	, by
,	GRANTOR.	
	Notary Public, State of Texas	
	(Printed or Stamped Name of Nota	ary)
	My Commission Expires:	
After Recording, Return this Document to:		
Grayson Collin Electric Cooperative, Inc. PO Box 548		

Van Alstyne, Texas 75495-0548



