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DISTRICT

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Meeting Our Region's Needs Today
And Tomorrow



WASTEWATER COMMITTEE MEETING

JANUARY 22, 2025



Agenda

- I. CALL TO ORDER
- II. PUBLIC COMMENTS
- III. OPENING REMARKS
- IV. ACTION ITEMS
- V. DISCUSSION ITEMS
- VI. ADJOURNMENT



Agenda

IV. ACTION ITEMS

- A. Consider approval of Wastewater Committee meeting minutes – December 18, 2024
- B. South Mesquite Creek Regional Wastewater Treatment Plant Peak Flow Management and Expansion; Project No. 301-0525-18; Amendment No. 7, Partial GMP No. 6, and Engineering Services During Construction
- C. 121 Force Main Improvements; Project No. 501-0491-18; Tabulation of Bids and Award of Contract, Internal Inspection Services, and Engineering Services Agreement

V. DISCUSSION ITEMS

- A. Update on Rowlett Creek Regional Wastewater Treatment Plant Pretreatment Program
- B. Opportunity for Committee members to provide feedback on Wastewater Committee meeting or request potential future agenda items



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Mark Simon – Director of Engineering

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South Mesquite Creek Regional Wastewater Treatment Plant Peak Flow Management and Expansion

Background

- Capacity Assessment Study of the southern services area show the South Mesquite Creek RWWTP needs expansion by 2028
 - From 33 MGD to 41 MGD average daily flow
 - Increase wet weather treatment capacity to 102.5 MGD
 - Meets growth projections through 2033.
- Early peak flow relief adding 3.5 million gallons of storage was completed in August 2024

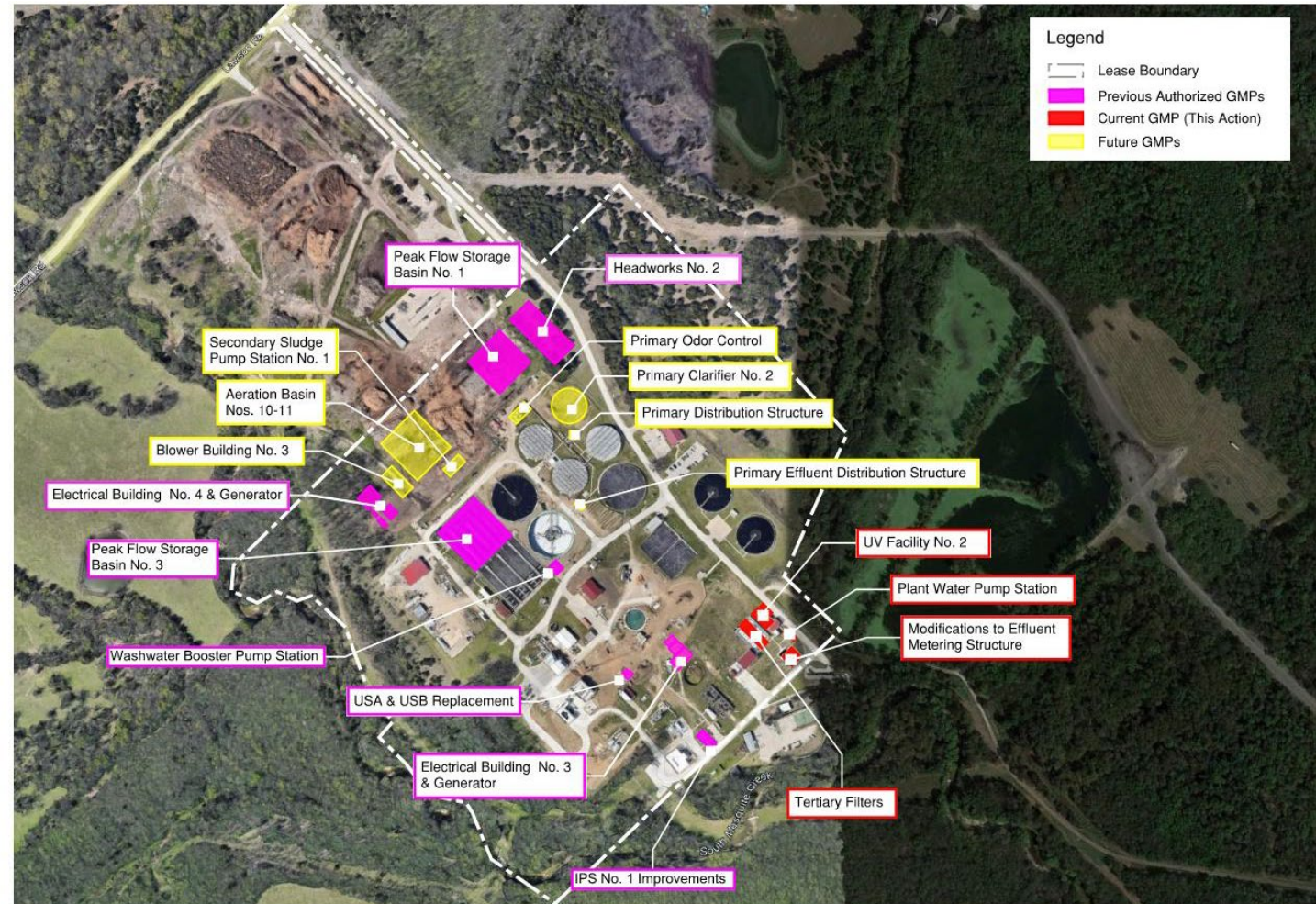


South Mesquite Creek Regional Wastewater Treatment Plant Peak Flow Management and Expansion

Project Overview

The project is divided into three parts:

- I. Early Peak Flow Relief
 - Repurpose abandoned secondary clarifier as Peak Flow Storage Basin No. 3
- II. Peak Flow Improvements
 - Headworks No. 2
 - Peak Flow Storage Basin No. 1
 - **Parallel 42-inch FMs (Current Request)**
 - Electrical Buildings and Gear for Peak Flow and Expansion
- III. **Expansion to 41 MGD (Current Request)**
 - Primary, secondary and tertiary treatment improvements





South Mesquite Creek Regional Wastewater Treatment Plant Peak Flow Management and Expansion

Partial Guaranteed Maximum Price (GMP) No. 6

CMAR ESTIMATE: \$52.99 million

Engineering Services During Construction (Carollo)

- 25-month period
- \$1,308,300

Major Scope of Work Description – Partial GMP No. 6	Lump Sum Amount
Bid Package 8 – 42-inch parallel force mains Construction	\$7,149,840
Bid Package 9 – UV, tertiary filter, Non-Potable Water pump station Construction	\$30,967,012
Bid Package 10 – Dewatering, UV, and Filter Equipment procurement	\$3,154,530
Allowances	\$1,100,000
Total Construction Cost	\$42,371,382
General Conditions (@8.5% of the Estimated Construction Costs)	\$3,601,568
Total Cost of Work	\$45,972,950
CMAR Fees (@6.5% of the Cost of Work)	\$2,988,242
CMAR Contingency (@1.5% of the Cost of Work)	\$689,595
Partial Guaranteed Maximum Price No. 6 (Sum of Total Cost of Work and CMAR Fees)	\$49,650,787



South Mesquite Creek Regional Wastewater Treatment Plant Peak Flow Management and Expansion

Project Cost & Schedule Update

GMP No	Award Date	South Mesquite Creek RWWTP	Amount
	Oct-21	Original Agreement - Partial Pre-construction and Procurement Services Fee	\$1,250,000
1	Jun-22	Early Peak Flow Material and Site Preparation	\$11,944,463
2	Dec-22	Early Peak Flow Relief Construction	\$8,556,427
	Mar-23	Change Order No. 1	\$48,118
3	Feb-24	Early Electrical Equipment	\$16,788,605
4	Jun-24	Headworks No. 2, Peak Flow Storage Basin No. 1, and Electrical Building No. 4	\$110,349,109
	Aug-24	Change Order No. 2	(\$1,553,954)
5	Oct-24	Electrical Building No. 3	\$21,145,610
6	Jan-25	42-inch FMs and UV, Filters, and Solids Imps for Exp to 41 MGD (Current Request)	\$49,650,787
7	Fall 2025	Primary Clarifier, Aeration Basins, and Blowers for Exp to 41 MGD	\$81,377,767
8	Winter 2027	Site Civil, Paving, and Hydrants	\$8,673,131
Total Contract Price			\$308,228,063



Committee Consideration

The Executive Director and NTMWD staff recommend the Board of Directors authorize the Executive Director to execute Amendment No. 7 to the Construction Manager At-Risk and an Engineering Services Agreement as follows:

CMAR: Archer Western Construction, LLC

Consultant: Carollo Engineers, Inc.

Scope: Construction, Partial GMP No. 6
Engineering Services During Construction for GMP No. 6

Project: No. 301-0525-18, South Mesquite Creek Regional Wastewater Treatment Plant Peak Flow Management and Expansion

Amount: \$49,650,787 for Construction
\$1,308,300 for Engineering Services During Construction

Funding: Regional Wastewater System ECP

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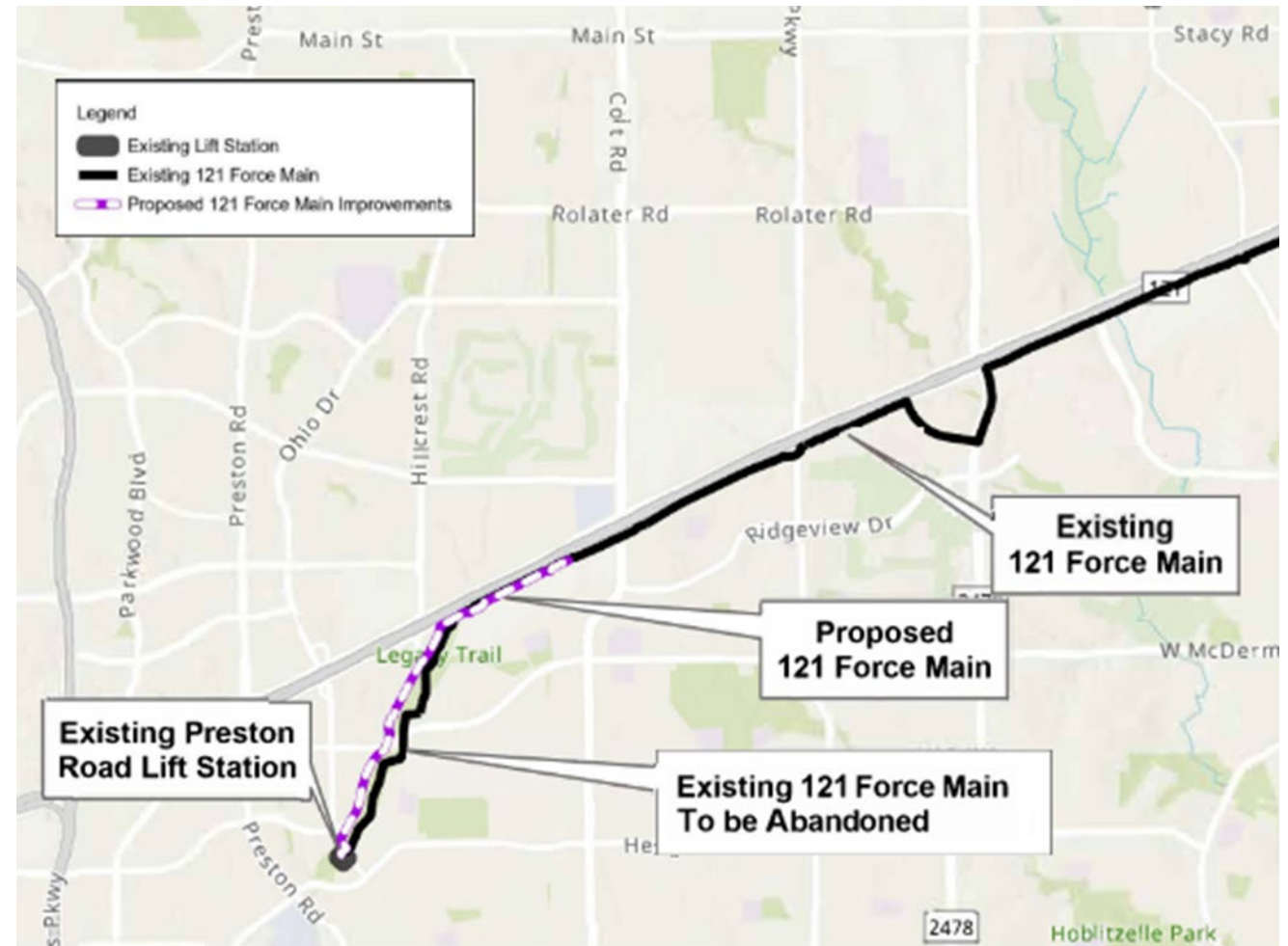
121 Force Main Improvements

Project Purpose

- Replace segment of the existing force main to address frequent reliability issues and hydraulic constraints

Project Components

- Construct 12,500 linear feet of 36-inch fiberglass force main and associated appurtenances
- Grouting and abandonment of 9,600 linear feet of 30-inch force main and removal of 3,200 linear feet of 30-inch force main





121 Force Main Improvements

Tabulation of Bids

Bidder	Total Bid	Recommendation
Belt Construction of Texas	\$10,794,721.00	Lowest responsible bid Recommended for Award
Mountain Cascade of Texas	\$11,220,041.00	
Wilson Contractor Services	\$11,753,379.95	
Black Rock Construction	\$16,229,844.75	
Western Municipal Construction of Texas	\$17,766,857.00	
Thalle Construction Company	\$18,006,881.00	
Canary Construction	\$18,901,045.00	
ENGINEER'S OPINION OF PROBABLE COST	\$18,160,000.00	



121 Force Main Improvements

Engineering Services During Construction (Kimley-Horn)

- Engineering services for 20-month period
- \$326,000

Internal Inspection Services

- Internal inspection services to cover all tasks
- \$472,860



Committee Consideration

The Executive Director, NTMWD staff and Kimley-Horn & Associates, Inc. recommend the Board of Directors authorize the award of contracts as follows:

Contractor: Belt Construction of Texas, LLC

Consultant: Kimley-Horn & Associates, Inc.

Scope: Construction Contract, Engineering Services During Construction, and Internal Inspection Services

Project: No. 501-0491-18, 121 Force Main Improvements

Amount:	Construction Contract:	\$ 10,794,721
	Inspection Services (Internal):	\$ 472,860
	Engineering Services during Construction:	\$ 326,000

Funding: Upper East Fork Interceptor System ECP

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Executive Session

Section 551.071, Consultation with Attorney

- Authorizes a government body to consult with its attorney in an Executive Session to seek advice on legal matters regarding pending or contemplated litigation or a settlement offer or on a matter in which the duty of the attorney to the governmental body under the Texas Disciplinary Rules of Professional Conduct of the State Bar of Texas clearly conflicts with the Texas Open Meetings Act.
- A government body may not invoke this Section to convene a closed session and then discuss matters outside of that provision.
- General discussion of policy, unrelated to legal matters, is not permitted under the language merely because an attorney is present.
- Items discussed during Executive Session are privileged and should remain confidential.



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