



MEMORANDUM



TO: Carl E. Geffken, City Administrator
CC: Jeff Dingman, Deputy City Administrator
FROM: Lance A. McAvoy, Director of Water Utilities
DATE: April 23, 2024
SUBJECT: Basin 12 SSA Remedial Measures Phase 3-Project Number 19-23-C1

SUMMARY

On April 04, 2023 the Board of Directors approved the bid of Forsgren, Inc. in the amount of \$1,303,079.00. The scope of this project includes the remediation of approximately 4,070 linear-feet of 8-inch diameter sanitary sewer line by conventional open cut and pipe burst methods and the replacement of approximately 22 manholes. An exhibit showing the location of the project and a project summary sheet are attached for your review.

A change order is required to reconcile the remaining balance of the contract amount to the actual cost of the completed project. This change order reduces the contract amount by \$247,923.66, for a new total of \$1,055,155.34. This change order also includes an adjustment to the contract time. A total of 66 additional days is requested for the project. The additional time requested is for 62 days to reach substantial completion. The new adjusted contract substantial date was January 03, 2024. The additional time requested to reach final completion is for 4 days. The new adjusted contract final date was March 18, 2024.

A Resolution authorizing the Mayor to execute a Change Order Number 1 reducing the amount of the contract by \$247,923.66 to reconcile the project budget and adding 66 additional days to the contract time. The funding for this project is available through excess sales tax appropriation.

Please contact me should you or members of the Board have any questions or desire additional information.

ATTACHMENTS

1. [5-7-24_Item_ID_957_Uilities_Resolution.pdf](#)
2. [5-7-24 Item ID 957 Utilities.pdf](#)

FISCAL IMPACT: -\$247,923.66 and add 66 days
BUDGET INFORMATION: Budgeted / Water Utilities - Excess Sales Tax Appropriation

RESOLUTION NO. _____

RESOLUTION AUTHORIZING THE MAYOR TO EXECUTE CHANGE ORDER NO. 1
WITH FORSGREN, INC., FOR THE
BASIN 12 SSA REMEDIAL MEASURES PHASE III

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE CITY OF FORT
SMITH, ARKANSAS, that:

SECTION 1: Change Order No.1 with Forsgren, Inc., for the construction of
Basin 12 SSA Remedial Measures Phase III, Project 19-23-Construction (C1), is hereby
approved.

SECTION 2: The Mayor, his signature being attested by the City Clerk, is hereby
authorized to execute Change Order No.1 with Forsgren, Inc., reducing the contract
amount by \$247,923.66 and adding 66 days, reducing the total contract amount to
\$1,055,155.34 and for a period of 246 days for final completion.

This Resolution adopted this _____day of May 2024.

APPROVED:

Mayor

ATTEST:

City Clerk

APPROVED AS TO FORM:



npr

CHANGE ORDER NO. 1

Project: Basin 12 SSA Remedial Measures Phase 3

Change Order No.: 01

Project No.: 19-23-C1

Contractor: Forsgren, Inc.

Contract Date: 04/04/2023

Description: This Change Order No. 01 is to add 66 days to the overall contract time, and to reallocate project costs. The additional time is for approved delays due to weather, for approved days due to construction delays outside of the Contractors control and unidentified site conditions, the time required to coordinate the Final Inspection, and deducting the days not used to meet Final Completion. Punch list items took 6 days to complete. Cost changes include deductions of \$247,923.66 to adjust the contract amount to the value of work completed, and Liquidated Damages in the amount of \$20,500.00 for missing the Substantial Completion date for a total deduction of \$268,423.66 and total cost of \$1,034,655.34.

Change To The Project Price:

Original Contract Price	\$ 1,303,079.00
Contract Price for Change Orders To Date	\$ -
The Contract Price for Change Order No. 01	\$ (247,923.66)
The Contract Price Following This Change Order No. 01 Will Be	\$ 1,055,155.34
Cost of Work Completed to Date	\$ 907,419.11
Contract Balance Remaining	\$ 147,736.23

Change To The Project Time:

Original Contract Time for Substantial Completion (Days)	150
Additional Contract Time for Substantial Completion Due to Change Orders To Date (Days)	-
Additional Contract Time for Substantial Completion Due to This Change Order (Days)	62
The Contract Time to Reach Substantial Completion Following This Change Order No. 1 Will Be (Days)	212
Additional Time to Reach Substantial Completion (Liquidated Damages) (Days)	41
Time to Coordinate Final Inspection (Days)	28
Time Allowed for Final Completion (Days)	30
Actual Time For Final Completion (Days)	6
Total Contract Days	246

Signatures:

Forsgren, Inc.

Steve Forsgren, President

Date: _____

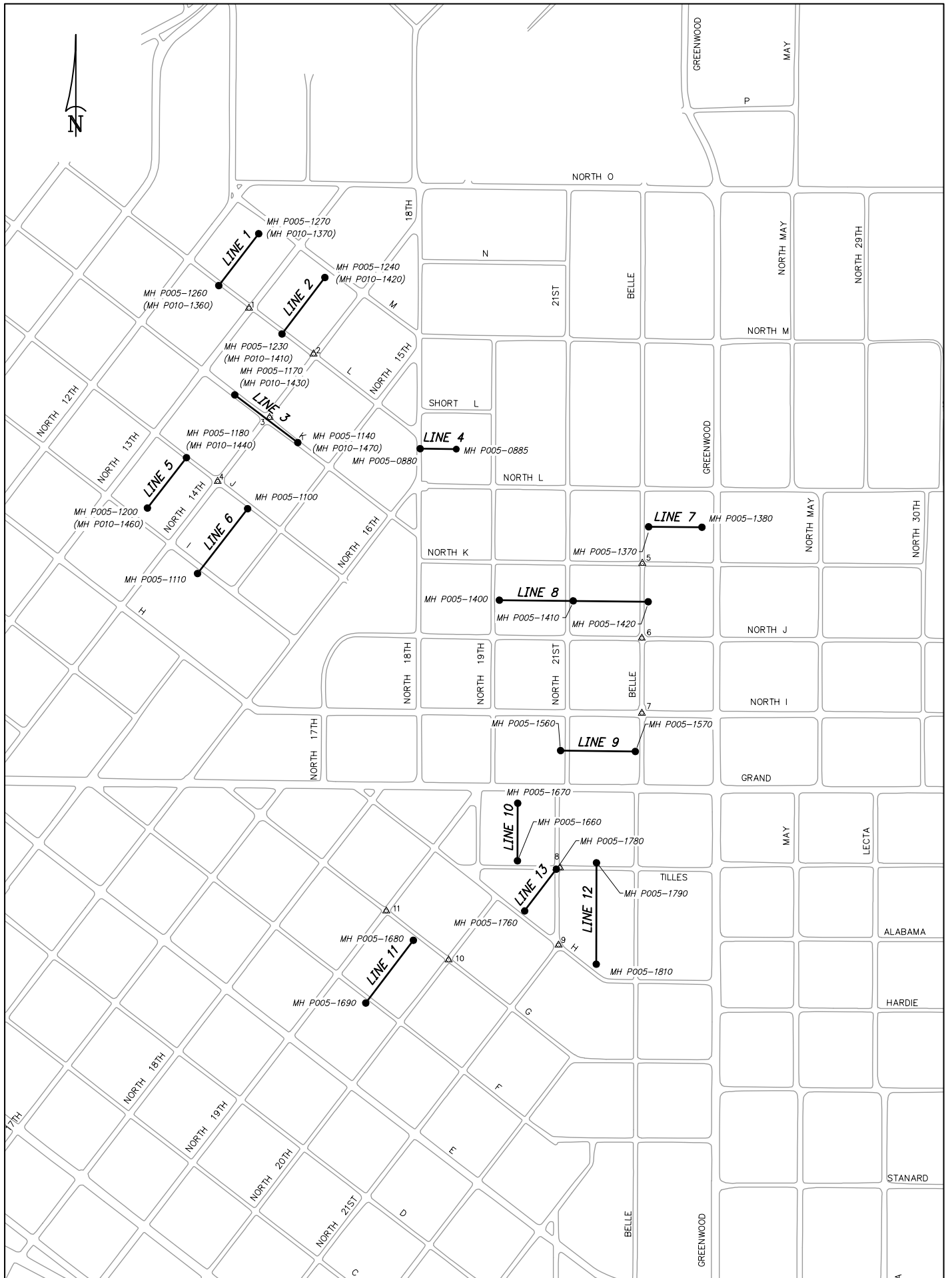
Owner, City of Fort Smith, AR

George McGill, Mayor

Date: _____

ATTEST:

City Clerk



LOCATION MAP

1"=300'



MEMORANDUM



TO: Carl E. Geffken, City Administrator
CC: Jeff Dingman, Deputy City Administrator
FROM: Lance A. McAvoy, Director of Water Utilities
DATE: April 23, 2024
SUBJECT: Basin 12 SSA Remedial Measures Phase III-Project Number 19-23-C1

SUMMARY

On April 4, 2023, the Board of Directors approved the bid of Forsgren, Inc. in the amount of \$1,303,079.00 (R-68-23). The scope of this project includes the remediation of approximately 4,070 linear-feet of 8-inch diameter sanitary sewer line by conventional open cut and pipe burst methods and the replacement of approximately 22 manholes. A project summary sheet and presentation are attached for your review.

This Project was completed 19% below the original contract amount and completed in 287 calendar days (107 days beyond original contract time). Of the 107 days, 66 days were approved delays based on weather and on-site conditions. The 41 remaining days are liquidated damages yielding a penalty of \$20,500.00. The liquidated damages reduced the final payment amount of \$147,736.23 to \$127,236.23.

A Resolution accepting the project as complete and authorizing final payment to Forsgren, Inc., for \$127,236.23, is attached. The funding for this project was available through excess sales tax appropriation.

Please contact me should you or members of the Board have any questions or desire additional information.

ATTACHMENTS

1. [5-7-24_Item_ID_958_Utility_Resolution.pdf](#)
2. [5-7-24_Item_ID_958_Utility.pdf](#)

FISCAL IMPACT: \$127,236.23
BUDGET INFORMATION: Budgeted / Water Utilities - Excess Sales Tax Appropriation

RESOLUTION NO. _____

RESOLUTION ACCEPTING THE PROJECT AS COMPLETE AND AUTHORIZING FINAL PAYMENT TO FORSGREN, INC., FOR THE BASIN 12 SSA REMEDIAL MEASURES PHASE III - PROJECT 19-23-C1

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE CITY OF FORT SMITH, ARKANSAS, that:

SECTION 1: The construction of Basin 12 SSA Remedial Measures Phase 3, Project 19-23-Construction (C1), is hereby accepted as complete.

SECTION 2: Final payment to Forsgren, Inc. in the amount of \$127,236.23, is hereby approved.

This Resolution adopted this _____ day of May 2024.

APPROVED:

Mayor

ATTEST:

City Clerk

APPROVED AS TO FORM:



_____ npr

Project Summary

Project Name: Basin 12 SSA Remedial Measures Phase 3 **Project Status:** Complete

Project Number: 19-23-C1 **Today's Date:** 05/07/24

Project Engineer: Austin Pearcy **Staff Contact Name:** Lance McAvoy

Project Contractor: Forsgren, Inc. **Staff Contact Phone:** (479) 494-3908

Notice to Proceed Issued:
6/5/2023

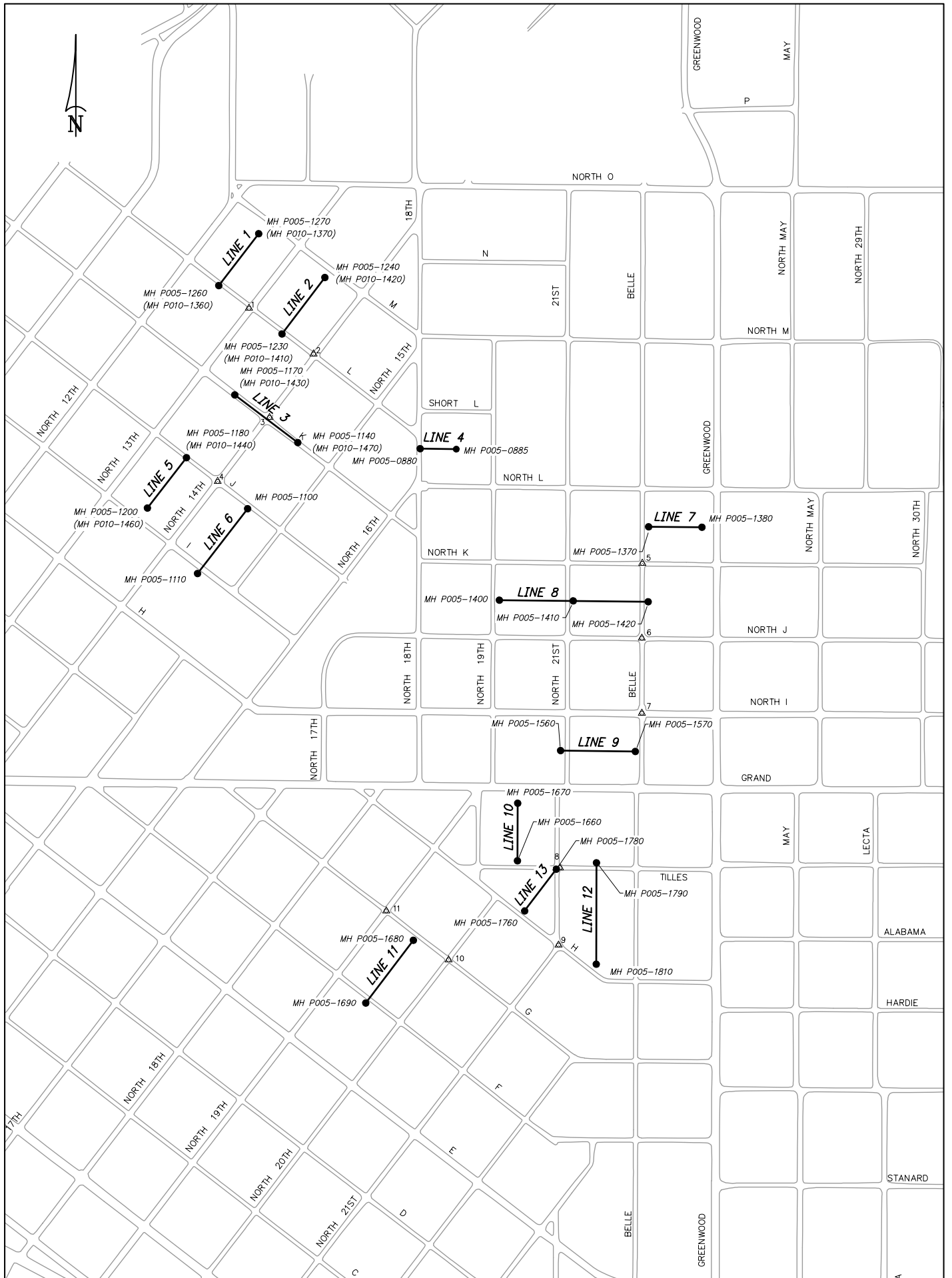
Contact Breakdown		
	Dollar Amount	Contract Time (Days)
Original Contract Amount:	\$1,303,079.00	180
Change Order(#1):	-\$247,923.66	66
Change Order(#2):	\$0.00	0
Change Order(#3):	\$0.00	0
Total Change Orders:	-\$247,923.66	66
Adjusted Contract:	\$1,055,155.34	246

Contract Payment Breakdown		
	Dollar Amount	
Adjusted Contract Amount	\$1,055,155.34	
Previous Payments	\$907,419.11	
Final Payment Amount:	\$147,736.23	
Contract Balance Remaining	\$147,736.23	

Final Payment Breakdown	
Total Work Installed This Payment	\$147,736.23
Retainage Withheld This Payment	\$0.00
Liquidated Damages	-\$20,500.00
Adjusted Final Payment Amount	\$127,236.23

Final Comments:
Contract completed 19% below contract amount.

Liquidated damages for missing Substantial Completion are being assess in the amount of \$20,500.00 (41 Days x \$500.00/day).



LOCATION MAP

1"=300'

Basin 12 SSA Remedial Measures, Phase 3 Project No. 19-23-C1

- Project Cost & Schedule:
 - Construction Contract Amount: \$1,303,079.00 (R-68-23)
 - Actual Construction Cost: \$1,055,155.34
 - Completed 19% Under Original Construction Contract Amount
 - Notice to Proceed: June 05, 2023
 - Contract Time: 180 Days
 - Final Completion Date Allowed by Contract: December 01, 2023
 - Adjusted Final Completion Date Due To Allowed Delays: Feb 05, 2024
 - Actual Final Completion Date: March 18, 2024
 - Completed 41 Days Over Contract (LD's = \$20,500)

- Scope of Work
 - Remediation of approximately 4,070 linear-feet of 8-inch diameter sanitary sewer line by conventional open cut and pipe burst methods and the replacement of approximately 22 manholes.

- Project Information:
 - Design Engineer – Hawkins-Weir Engineering, Inc. (\$352,810.00)
 - Construction Contractor – Forsgren, Inc.
 - Inspection Services – In-House, Assisted by Hawkins-Weir Engineers, Inc. (\$37,880.00)

Basin 12 SSA Remedial Measures, Phase 3 Project No. 19-23-C1

- Project Details:
 - Pipe Replaced: 3,669 LF
 - PVC: 1,909 LF
 - Pipe Burst (HDPE): 1,760 LF
 - Clean Outs Installed: 87 EA
 - Lateral Service Lines Installed: 1,366 LF
 - Manholes Installed/Replaced: 22 EA

Basin 12 SSA Remedial Measures, Phase 3 Project No. 19-23-C1

- Justified Delays: 66 Days
 - Weather Related Delays: 47 Days
 - Line 3: 2 Days
 - Delays Caused by Other Utility Requiring Abandonment of Inactive Gas Lines.
 - Line 11: 13 Days
 - Line was 12-15 feet deep, and the previous backfill material used was gravel from the pipe to the ground surface.
 - The in-field material slowed trenching down, and provided cause for contractor to proceed with caution to ensure work-site safety.
 - Gas line had to be relocated along the trench site.
- Scheduling Final Walk-Through: 28 Days

Basin 12 SSA Remedial Measures, Phase 3
Project No. 19-23-C1



Old Brick Manhole and Nearby Storm Drain

Basin 12 SSA Remedial Measures, Phase 3
Project No. 19-23-C1



New Manhole Base Set with Initial Backfill

Basin 12 SSA Remedial Measures, Phase 3 Project No. 19-23-C1



Storm Drain Replacement and Site Restoration

Basin 12 SSA Remedial Measures, Phase 3
Project No. 19-23-C1



Vacuum Testing a New Manhole
(Ensures there are no leaks.)

Basin 12 SSA Remedial Measures, Phase 3
Project No. 19-23-C1



New Flat-top Manhole.

Basin 12 SSA Remedial Measures, Phase 3
Project No. 19-23-C1



Clean Out Installation
(Replaced lateral line and
installed clean out.)

Basin 12 SSA Remedial Measures, Phase 3
Project No. 19-23-C1



Wench Assembly for Pipe Bursting
(This mechanism pulls the “bursting
head” through the pipe.)

Basin 12 SSA Remedial Measures, Phase 3
Project No. 19-23-C1



Bursting Head and Wench Line

Basin 12 SSA Remedial Measures, Phase 3
Project No. 19-23-C1



HDPE Pipe Segments (Not Fused)

Basin 12 SSA Remedial Measures, Phase 3
Project No. 19-23-C1



HDPE Pipe Fusion Machine

Basin 12 SSA Remedial Measures, Phase 3
Project No. 19-23-C1



HDPE Pipe (Fused)

Basin 12 SSA Remedial Measures, Phase 3 Project No. 19-23-C1



HDPE Pipe (Fused)