

**City of Fayetteville Staff Review Form**

**2018-0050**

**Legistar File ID**

**2/6/2018**

City Council Meeting Date - Agenda Item Only  
N/A for Non-Agenda Item

Tim Nyander

1/15/2018

Water & Sewer Maintenance /  
Utilities Department

**Submitted By**

**Submitted Date**

**Division / Department**

**Action Recommendation:**

Staff recommends a resolution approving Amendment No. 1 (Supplemental Agreement No. 1) to the engineering contract with McClelland Consulting Engineers, Inc. in the amount of \$66,545.27 to add engineering services for the replacement of an existing 24-inch water main along Morningside Drive between E. Huntsville Road and E. 15th Street.

**Budget Impact:**

5400.720.5600-5314.00	Water and Sewer																														
Account Number	Fund																														
11011.1	Water/Sewer Relocations - Bond Projects																														
Project Number	Project Title																														
<table border="0" style="width: 100%;"> <tr> <td style="width: 30%;"><b>Budgeted Item?</b></td> <td style="width: 10%; text-align: center;">Yes</td> <td style="width: 30%; border-bottom: 1px solid black;">Current Budget</td> <td style="width: 10%; text-align: right;">\$</td> <td style="width: 10%; text-align: right;">887,121.26</td> </tr> <tr> <td></td> <td></td> <td style="border-bottom: 1px solid black;">Funds Obligated</td> <td style="text-align: right;">\$</td> <td style="text-align: right;">107,144.55</td> </tr> <tr> <td></td> <td></td> <td style="border-bottom: 1px solid black;">Current Balance</td> <td style="text-align: right;"><b>\$</b></td> <td style="text-align: right;"><b>779,976.71</b></td> </tr> </table>	<b>Budgeted Item?</b>	Yes	Current Budget	\$	887,121.26			Funds Obligated	\$	107,144.55			Current Balance	<b>\$</b>	<b>779,976.71</b>	<table border="0" style="width: 100%;"> <tr> <td style="width: 30%;"></td> <td style="width: 10%; text-align: center;">Yes</td> <td style="width: 30%; border-bottom: 1px solid black;">Item Cost</td> <td style="width: 10%; text-align: right;">\$</td> <td style="width: 10%; text-align: right;">66,545.27</td> </tr> <tr> <td style="border-bottom: 1px solid black;"><b>Does item have a cost?</b></td> <td style="border-bottom: 1px solid black;">No</td> <td style="border-bottom: 1px solid black;">Budget Adjustment</td> <td style="text-align: right;">\$</td> <td style="text-align: right;">-</td> </tr> <tr> <td style="border-bottom: 1px solid black;"><b>Budget Adjustment Attached?</b></td> <td style="border-bottom: 1px solid black;"></td> <td style="border-bottom: 1px solid black;">Remaining Budget</td> <td style="text-align: right;"><b>\$</b></td> <td style="text-align: right;"><b>713,431.44</b></td> </tr> </table>		Yes	Item Cost	\$	66,545.27	<b>Does item have a cost?</b>	No	Budget Adjustment	\$	-	<b>Budget Adjustment Attached?</b>		Remaining Budget	<b>\$</b>	<b>713,431.44</b>
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V20140710

Previous Ordinance or Resolution # 205-17

Original Contract Number: 2017-32

Approval Date: \_\_\_\_\_

Comments:



**MEETING OF FEBRUARY 6, 2018**

**TO:** Mayor and City Council

**THRU:** Don Marr, Chief of Staff  
Water & Sewer Committee

**FROM:** Tim Nyander, Utilities Director

**DATE:** January 15, 2018

**SUBJECT:** **Amendment No. 1 to the Contract with McClelland Consulting Engineers, Inc.**

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**RECOMMENDATION:**

Staff recommends a resolution approving Amendment No. 1 (Supplemental Agreement No. 1) to the engineering contract with McClelland Consulting Engineers, Inc. in the amount of \$66,545.27 to add engineering services for the replacement of an existing 24-inch water main along Morningside Drive between E. Huntsville Road and E. 15<sup>th</sup> Street.

**BACKGROUND:**

The original contract with McClelland Consulting Engineers, Inc. (MCE) is dated October 3, 2017 and was approved by Resolution 205-17 in the amount of \$107,144.55. The original contract includes water and sewer relocations on E. 15<sup>th</sup> Street from S. College to E. Huntsville Road.

**DISCUSSION:**

Based upon age and corrosion leaks, staff requests to replace the 24-inch water main adjacent to Morningside Drive from East Huntsville Road to East 15<sup>th</sup> street. Adding this 24-inch water main replacement to the work proposed on E 15<sup>th</sup> Street is anticipated to reduce costs compared to a new or stand-alone project. The proposed amendment is based upon actual hours and a not-to-exceed price.

The proposed amendment received a recommendation for approval at the Water and Sewer Committee on January 9, 2018.

**BUDGET/STAFF IMPACT:**

Funds are available in the Water System Rehabilitation/Replacement project.

**Attachments:**

Supplemental Agreement No. 1  
Fee Estimate  
Map

**Supplemental Agreement No. 1  
Highway 16 Utility Relocations**

**Date:** \_\_\_\_\_

**WHEREAS**, the CITY OF FAYETTEVILLE and McClelland Consulting Engineers, Inc. (ENGINEER) entered into an Agreement for Professional Engineering Services (AGREEMENT) on October 3, 2017; and,

**WHEREAS**, the CITY OF FAYETTEVILLE has requested that ENGINEER perform additional services outside of the scope of the AGREEMENT.

**NOW THEREFORE**, the following modifications will be made to the AGREEMENT to include the additional services requested:


**MODIFICATIONS:**

1. Section 2.1.1 – the additional scope of services are included in the attached Appendix “A-1”.
2. Section 5.1 – the maximum not-to-exceed amount is increased from \$107,144.55 to **\$173,689.82**. Modifications to compensation are included in the attached Appendix “B-3”.

**IN WITNESS WHEREOF**, the parties execute this Supplemental Agreement No. 1, to be effective on the date set out above.

McClelland Consulting Engineers, Inc.

City of Fayetteville, Arkansas

BY:  \_\_\_\_\_  
Daniel Barnes, PE  
President, Fayetteville Office

BY: \_\_\_\_\_  
Mayor Lioneld Jordan

## **APPENDIX A – SCOPE OF ADDITIONAL SERVICES**

### **SUPPLEMENTAL AGREEMENT NO. 1 – 24” WATER MAIN RELOCATION FROM HUNTSVILLE RD TO HIGHWAY 16 (15<sup>TH</sup> ST)**

#### **1.1 General**

The scope of additional services includes design surveys, Preliminary Design, and Final Design services related to the replacement of approximately 2,600 linear feet of 24-inch cast iron water main, located along the east side of Morningside Drive between Huntsville Rd and Highway 16 (15<sup>th</sup> St). The design plans and technical specifications for this additional work will be incorporated into the water/sewer relocation plans for the Highway 16 corridor previously authorized by the City, and bid out as one complete package. The proposed alignment is planned for the east side Morningside Drive; therefore, coordination will be needed with the design consultant completing the subdivision on the east side of Morningside Drive. In addition, it is assumed that approximately 1,000 LF of existing 6” sewer main along the east edge of Morningside Drive will need to be relocated to accommodate the new 24” water main. The design associated with the sewer main relocation is included in this scope of additional services.

#### **1.2 Design Surveys, Preliminary Design, Final Design and Bidding Services**

##### **1.2.1 Design Surveys**

MCE will complete a detailed topographic survey along Morningside Drive (between west curb line and approximately 30 ft east of east right-of-way line) from Huntsville Rd to Highway 16. Details will include (but are not limited to): contours, flowlines, utility poles and pedestals, structures, roads, sidewalks, storm water and sanitary sewer manholes, and utility marks provided by a utility locating service. MCE will also conduct research and make physical ties sufficient to locate the eastern right-of-way of Morningside Drive along the project limits, for the purpose of defining the extent of the right-of-way, not for transfer of title.

##### **1.2.2 Preliminary Design**

Preliminary plans for the 24” water main relocation shall be submitted to the City of Fayetteville for the purpose of confirming the final design scope of work, including the extent of the new water main, the location of interconnections, adjacent utility relocations, necessary easement requirements, anticipated right-of-way conflicts, coordination of shut downs with industries in the industrial park, and a preliminary estimate of construction costs.

##### **1.2.3 Final Design**

Based on review comments from Preliminary Design, the Final Design and Project Specifications for the 24” water main relocation shall be completed and incorporated into the overall design package. Design deliverables shall be the same as included in the Original Agreement dated October 3, 2017.

#### **1.2.4 Bidding Phase**

As mentioned in Section 1.2.3 above, the design plans and specifications will be incorporated into the overall design package for the Highway 16 water/sewer relocations and bid out as one complete project. Additional effort related to responding to bidder questions and issuance of addenda is anticipated for the 24" water main relocation.

#### **1.3 Property Surveys, Property Mapping, Easement Mapping and Easement Preparation Services**

As mentioned in Section 1.2.1, the Design Surveys shall include physical ties sufficient to locate the eastern right-of-way for Morningside Drive. It is assumed that the 24" water main will be relocated to either (1) within the Morningside Drive right-of-way, or (2) within a permanent easement adjacent to the eastern right-of-way line, which will be dedicated by plat for the future development. As such, no additional scope or costs for property surveys, mapping, and easement preparation are included in this Supplemental Agreement.

#### **1.4 Storm Water Pollution Prevention Plan Services**

The Storm Water Pollution Prevention Plan shall include the work associated with the 24" water main relocation.

#### **1.5 Geotechnical Services**

Perform up to three (3) rock soundings at critical locations along the project corridor. Prepare summary report and logs, which will be included in the Project Specifications.

#### **1.6 Construction Phase Services**

The scope of Construction Phase Services will be added with a future amendment to this agreement.

#### **1.7 Extra Work**

The following items are not included under this agreement but will be considered as extra work:

1. Redesign for the City's convenience or due to changed conditions after prior approval or conflicting direction from the City or from ARDOT.
2. Submittals or deliverables in addition to those listed in Section 1.2.3.
3. Environmental Assessment.
4. Work related to environmentally or historically (culturally) significant items.

Extra Work will be as directed by the City of Fayetteville in writing for an additional fee as agreed upon by the City of Fayetteville and MCE.

#### **1.8 Schedule**

The same schedule as defined in the Original Agreement dated October 3, 2017 will be maintained.

**Appendix B-3 Fee Proposal - Supplemental Agreement No. 1**

Appendix B-3  
 Design Surveys, Preliminary Design,  
 Final Design, SWPPP Servies and Bidding Assistance  
 In Conjunction with the Highway 16 Water and Sewer Relocation  
 AHTD Job No. 040579  
 Fayetteville, Arkansas

**Manhours**

Labor Classification	Time/Hours	Labor Rate	Extended
Principal Engineer	16.00	\$65.00	\$1,040.00
Sr Project Manager V	136.00	\$60.00	\$8,160.00
Project Designer III	144.00	\$35.00	\$5,040.00
Chief Draftsman	144.00	\$24.00	\$3,456.00
Survey Tech. II	30.00	\$22.00	\$660.00
Reg. Land Surveyor IV	14.00	\$36.50	\$511.00
Field Survey 1-Man	72.00	\$27.00	\$1,944.00
Office Admin	4.00	\$21.50	\$86.00

Direct Labor Subtotal		\$20,897.00
Overhead	164.03%	\$34,277.35
Subtotal		\$55,174.35
Fixed Fee		\$6,620.92
<b>Subtotal Labor Costs</b>		<b>\$61,795.27</b>

**EXPENSES**

Estimated Reimbursable Expenses	Amount
Mileage	\$50.00
ArkUps	\$1,000.00
Printing	\$100.00
ADH Review Fee*	\$0.00
Rock Soundings (up to 3 locations)	\$3,600.00
<b>Total Estimated Reimbursable Expenses</b>	<b>\$4,750.00</b>

**Total Costs - Design Surveys, Preliminary Design, Final Design, Bidding Phase, and SWPPP Services** **\$66,545.27**

\* ADH Review Fee of \$500 included in Original Agreement

FEE ESTIMATE

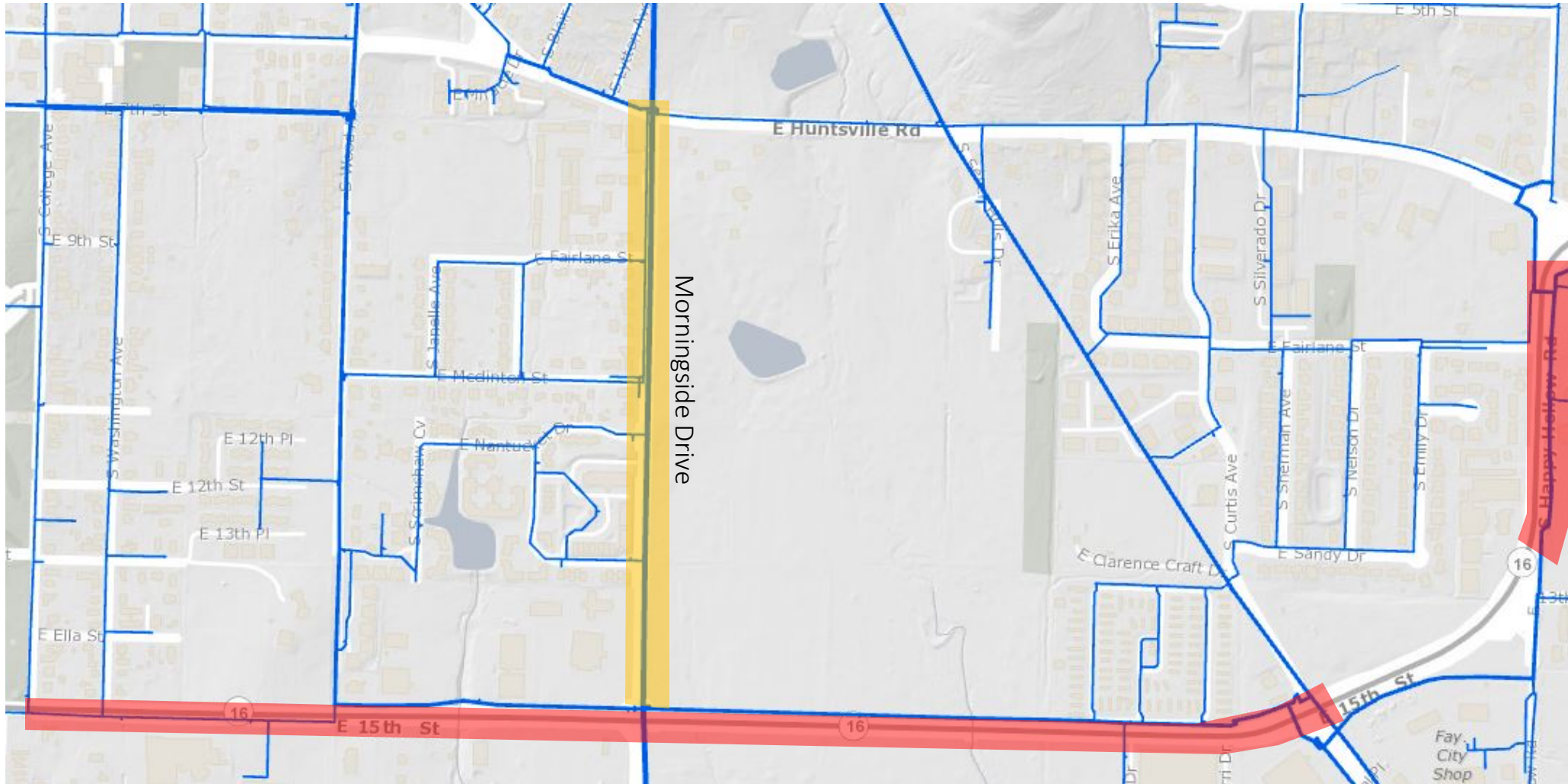
**Supplemental Agreement No. 1 - 24" Water Main Relocation**



Manhour Fee Estimate  
Date: 01-04-2018



Task Description	Principal Engineer	Sr Project Manager V	Project Designer III	Chief Draftsman	Survey Tech. II	Reg. Land Surveyor IV	Field Survey 1-Man	Office Admin
<b>Design Surveys</b>								
Review design plans							2.00	
Establish vertical and horizontal control							2.00	
Coordinate with Arkups						2.00	2.00	
Complete mapping of surface features							64.00	
Complete mapping of potholed utilities							4.00	
Drafting					30.00			
Quality control						4.00		
Project Management						8.00		
<b>Sub total Manhours / Fee</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>30.00</b>	<b>14.00</b>	<b>72.00</b>	<b>0.00</b>
<b>Preliminary Design</b>								
Review ArDOT preliminary roadway plans								
Review New Subdivision Plans for Subdivision Currently Under Construction East of Proposal Alignment		4.00	6.00					
Coordinate with Developer's Engineer on Potential Conflicts		8.00						
Conduct field evaluation		6.00	6.00					
Identify affected utilities		4.00	16.00					
<b>Prepare preliminary water main relocation design</b>	<b>3.00</b>	<b>12.00</b>	<b>16.00</b>					
<b>Prepare preliminary sewer main relocation design</b>	<b>1.00</b>	<b>4.00</b>	<b>4.00</b>					
Develop estimate of probable construction costs		2.00	2.00					
Develop estimate of qualifying/nonqualifying utilities for reimbursement from ArDOT								
<b>Prepare preliminary water main plan sheets</b>		<b>4.00</b>	<b>12.00</b>	<b>32.00</b>				
<b>Prepare preliminary sewer main plan sheets</b>		<b>2.00</b>	<b>4.00</b>	<b>8.00</b>				
Project Management	2.00	8.00						
<b>Sub total Manhours / Fee</b>	<b>6.00</b>	<b>54.00</b>	<b>66.00</b>	<b>40.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>Final Design</b>								
<b>Adjust horizontal alignment</b>	<b>2.00</b>	<b>10.00</b>	<b>12.00</b>	<b>16.00</b>				
<b>Prepare vertical alignment</b>	<b>4.00</b>	<b>16.00</b>	<b>20.00</b>	<b>48.00</b>				
<b>Prepare sewer main relocation plan/profile sheets</b>	<b>2.00</b>	<b>4.00</b>	<b>8.00</b>	<b>16.00</b>				
Coordinate with Developer's Engineer on Potential Conflicts		8.00						
Prepare construction plan notes								
Prepare recommendation for sequence of construction		4.00	8.00					
Coordinate with Industries in Industrial Park for Shutdowns		4.00						
Review final right of way and construction plans from ArDOT								
Coordinate easement requirements								
Develop erosion control plans			2.00	4.00				
Prepare non standard construction details		4.00	8.00	16.00				
Prepare non standard construction specs		4.00	8.00					4.00
Develop quantity and bid form			2.00					
Assemble Project Manual								
Owner submittal preparation								
ArDOT submittal preparation								
Update estimate of qualifying/nonqualifying utilities for reimbursement from ArDOT		1.00	2.00					
Prepare permit application to Corps of Engineers								
Prepare estimate of probable construction cost								
Submit to ADH for review/approval								
Reply to ADH comments		2.00						
ArDOT coordination								
Utility coordination		4.00						
Meetings with Owner								
Project management	2.00	12.00						
<b>Sub total Manhours / Fee</b>	<b>10.00</b>	<b>73.00</b>	<b>70.00</b>	<b>100.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>4.00</b>
<b>SWPPP Services</b>								
Complete SWPPP		1.00	4.00	4.00				
Prepare NOI								
<b>Sub total Manhours / Fee</b>	<b>0.00</b>	<b>1.00</b>	<b>4.00</b>	<b>4.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>Bidding Phase</b>								
Respond to Questions during bidding		6.00						
Prepare/Issue Addenda		2.00	4.00					
Pre-bid meeting								
Bid Opening								
Bid tabulation and recommendation								
<b>Sub total Manhours / Fee</b>	<b>0.00</b>	<b>8.00</b>	<b>4.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

# Highway 16 Utility Relocations



-  Original Contract
-  Proposed Amendment