

AUTHORIZATION No. 90
TO
AGREEMENT BETWEEN
CITY OF SMITHVILLE, MISSOURI
AND
HDR ENGINEERING, INC. (FORMALLY E.T. ARCHER CORPORATION)
FOR
PROFESSIONAL ENGINEERING SERVICES

188TH STREET WATER LINE RELOCATION

In accordance with Section 1.A. of the December 18, 2003 Agreement, ENGINEER is hereby authorized to assist the City with the topographic survey, design, preparation of construction documents, bidding assistance, and construction administration for 12" domestic water line relocations on HWY 169 and on 188th Street to facilitate the reconstruction of the HWY 169 and 188th Street intersection by MoDOT. The total length of domestic water line relocation is approximately 1,000 linear feet on HWY 169 and 250 linear feet on 188th Street.

The Scope of Services will more specifically include the following project improvements and tasks.

SCOPE OF SERVICES

Task 1. Survey Phase

1. Utility survey to locate existing water lines

Task 2. Design Phase

1. Conversion of MoDOT CAD files
2. MoDOT coordination and meetings/conference calls (2 total)
3. Water Line Plan and Profile (4 20-scale sheets)
4. Water Main and Miscellaneous Details
5. Technical Specifications
6. Final construction cost estimates
7. Submit construction permit application to the Missouri Department of Natural Resources (MDNR)
8. Client meetings (1 included, final plan review)
9. Internal QC Review
10. Perform project management, schedule/cost control, invoicing

Task 3. Bidding Phase

1. Address prospective bidder's questions during bidding
 2. Prepare up to one (1) addenda during bidding
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Task 4. Construction Phase

1. Attend pre-construction meeting
2. Review up to four (4) contractor submittals
3. Assist with RFI's (4) and change orders (1)
4. Final walk through and project closeout

Project Schedule

03/03/2020	Notice to Proceed
04/03/2020	Review Plans to City
04/15/2020	Final Plans to MoDOT
09/2020	MoDOT Bid Letting

Project Assumption

1. A geotechnical investigation will not be required.
2. The City provide construction observation and will review results of any testing during construction.
3. The project will be included with the MoDOT roadway improvement plans and the plans will not require Title Page, Survey Control, Erosion Control, Traffic Control, etc.
4. Construction will be within MoDOT Proposed Right of Way and will not require easement acquisition documents.
5. HDR will receive CADD base files from MoDOT for the new HWY 169 design/construction including topographic survey, proposed base files, existing and proposed surface files, etc.
6. MoDOT will be responsible for Bid and Construction Phase Services of this project. HDR will assist MoDOT during these phases with work associated with the water main design and construction.

FEE

The CITY shall compensate ENGINEER for the 188th Street Water Line Relocation in an amount not to exceed \$31,520.00.

This AUTHORIZATION shall be binding on the parties hereto only after it has been duly executed and approved by the CITY and ENGINEER.

IN WITNESS WHEREOF, the parties hereto have executed, or caused to be executed by their duly authorized officials, this AGREEMENT in duplicate on the respective dates indicated below.

CITY: SMITHVILLE, MISSOURI

By: _____

Type or Print Name

Title _____

Date _____

ENGINEER: HDR Engineering, Inc. (formally
E.T. ARCHER CORPORATION)

By:  _____
Joseph Drimmel (Feb 19, 2020)

Joseph Drimmel, P.E.
Type or Print Name

Title Sr. Vice President

Date Feb 19, 2020

Smithville - 188th Street Water Line Relocation
Scope and Fee

Project Role	Bresette, Aaron J	Wiebelhaus, Mitchell John (Mitch)	Call, Brady	Sherman, William A	Yakle, Johnny R	Shields, Tyler	Meyer, Timothy C	Jasper, James F	Campbell, Joni L	Harkins, Jeremy	Berne, Susan L	English, Jeremy H	HDR Expenses	Total
	Client Manager	Project Manager/ Engineer	Civil EIT	Technician	Survey Manager	Survey Crew	Survey Crew	Survey Technician	Project Controller	Project Accountant	Admin	Engineer III		
Billing Rate	\$225.00	\$135.00	\$110.00	\$130.00	\$160.00	\$80.00	\$80.00	\$120.00	\$95.00	\$95.00	\$80.00	\$160.00		
TASKS														
A. Task 1 - Survey Phase														
1 Utility survey to locate existing water lines					3	6	6	4					\$100	\$2,020
Subtotal Hours	0	0	0	0	3	6	6	4	0	0	0	0		
Subtotal Dollars	0	0	0	0	480	480	480	480	0	0	0	0	100	\$2,020
Total Task 1														\$2,020
B. Task 2 - Design Phase														
1 Conversion of MoDOT CAD files		4		4										\$1,060
2 MoDOT coordination and meetings/conference calls (2 total)	3	10											\$60	\$2,085
3 Water Line Plan and Profile (4 20-scale sheets)	2	24		32										\$7,850
4 Water Main and Miscellaneous Details			8	4										\$1,400
5 Technical Specifications		12	8								8		\$50	\$3,190
6 Final construction cost estimate	1	3	3											\$960
7 Submit construction permit to MDNR		4	4								1	4	\$55	\$1,755
8 Client Meeting (1 included, final plan review)	4	4											\$60	\$1,500
9 Internal QC Review	4													\$900
10 Perform project management, schedule/cost control, invoicing		4							4	4				\$1,300
Subtotal Hours	14	65	23	40	0	0	0	0	4	4	9	4		
Subtotal Dollars	3150	8775	2530	5200	0	0	0	0	380	380	720	640	225	\$22,000
Total Task 2														\$22,000
C. Task 3 - Bidding Phase														
1 Address prospective bidder's questions during bidding	1	4												\$765
2 Prepare up to one (1) addenda during bidding	1	4	4	4									\$10	\$1,735
Subtotal Hours	2	8	4	4	0	0	0	0	0	0	0	0		
Subtotal Dollars	450	1080	440	520	0	0	0	0	0	0	0	0	10	\$2,500
Total Task 3														\$2,500
D. Task 4 - Construction Phase														
1 Attend pre-construction meeting	4	4											\$55	\$1,495
2 Review up to four (4) contractor submittals	1	4	4											\$1,205
3 Assist with RFI's (4) and a change order (1)	2	4	4											\$1,430
4 Final walk through and project closeout		6											\$60	\$870
Subtotal Hours	7	18	8	0	0	0	0	0	0	0	0	0		
Subtotal Dollars	1575	2430	880	0	0	0	0	0	0	0	0	0	115	\$5,000
Total Task 4														\$5,000
Total Hours	23	91	35	44	3	6	6	4	4	4	9	4		233
Total Billing Amount	\$5,175	\$12,285	\$3,850	\$5,720	\$480	\$480	\$480	\$480	\$380	\$380	\$720	\$640	\$450	\$31,520

Estimated Project Fee \$31,520