



FISHER ARNOLD
ENGINEERING INTEGRATION

September 25, 2018

Mr. Craig Light, P.E., City Engineer
City of Jonesboro
300 S. Church Street
Jonesboro, AR 72401

**RE: HWY 18/MAIN ST./HIGHLAND DR. INTERSECTION IMPROVEMENT
SUPPLEMENT REQUEST**

Dear Mr. Light:

Fisher & Arnold, Inc. is pleased to submit the following Supplement Request for providing additional services as requested for the Highway 18 / Main Street / Highland Drive Intersection Improvement Project. The Additional Services that have been requested are more particularly described as follows:

SHORTEN NORTHBOUND RIGHT TURN LANE

F&A to revise the 60% plans and Property Drawing per City of Jonesboro's request to shorten the northbound right turn in order to reduce impacts to the several businesses located along this portion of the improvement project. ARDOT concurred with the City's request to shorten the northbound right turn lane per email from Brooke Perkins dated 9/10/2018. The various subtasks to be addressed in this component will include the following:

1. Revise northbound right turn lane (approximately 155' turn lane with 100' transition)
2. Revise 60% to reflect lane revision (impacts typical sections, traffic control plan, epsc plan, striping plan and cross sections)
3. Revise Property Drawing
4. Resubmit 60% Plans and Property Drawing to ARDOT
5. Revise quantities

SUBTOTAL FEE (LUMP-SUM) \$14,636.00

Task Deliverables:
Revised 60% Plan Set.
Revised Property Drawing.

MODELING OF EXISTING STORMWATER DRAINAGE NETWORK

In addition to the above scope and fees that were requested by the City of Jonesboro, Fisher & Arnold would greatly appreciate your consideration of supplementing our design fee due to the work that we did not include in our original proposal. This project as first described seemed to be a simple intersection improvement project governed by local requirements. However, upon receiving comments back from ARDOT after our initial 60% plan submittal, we realized there would be additional requirements not accounted for in our original scope. One such requirement based upon comments from ARDOT, was to evaluate the entire drainage system that runs down each side of Main Street to the box culvert under Highway 18 south of the intersection. The effort included field survey outside the project limits and the development of a hydraulic model in CivilStorm for two networks (west side and east side drainage).

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When we initially developed the project scope it appeared that the increase to the impervious area would be negligible because the net effect was that we were eliminating pavement area at the northeast corner of the intersection and adding the right turn lane at the southeast corner of the intersection. Our proposed effort was to size and place inlets based on the proposed improvements but did not include the effort to analyze the existing system.

We are only requesting compensation for the additional survey and the development of the existing conditions model of the two systems flowing down each side of Main Street. Our original proposal did not include time for this effort.

The components that comprise this request are as follows:

1. Additional Survey Time
2. Inputting the survey data and developing the hydrology of the each subbasin within this reach
3. Development of two existing conditions models.

SUBTOTAL FEE (LUMP-SUM)\$18,480.00

SUPPLEMENT REQUEST SUMMARY:

SHORTEN NORTHBOUND RIGHT TURN LANE\$14,636.00


MODEL EXISTING STORMWATER DRAINAGE NETWORK.....\$18,480.00

SUPPLEMENT REQUEST MAX TOTAL\$33,116.00

If you have any questions regarding this proposal, please do not hesitate to call.

Sincerely,

FISHER & ARNOLD, INC.


John Pankey, P.E.
Vice President

JP/amm

Cc: Mr. Mark Nichols, P.E.
Mr. Richard E. Gafford, P.E.

Attachment

City of Jonesboro - Hwy 18/Main St./Highland Dr. Supplement Request
Proposed Man-hour Estimate

Task A - Shorten NB Right Turn Lane	Principal	Project Manager	Project Engineer	Designer	Technician/ Drafter	Clerical / Admin	Labor Total
Revise in base drawing		1.0		2.0			
Revise Typical Sections		1.0		2.0			
Revise Cross Sections, Set Slope Limits, Revise Easement		1.0	4.0	8.0			
Revise & resubmit 60% plans to ARDOT (includes traffic control, epsc, striping, etc.)	0.5	6.0	8.0	56.0			
Revise & resubmit property drawing		2.0	2.0	20.0			
Revise quantities		1.0	2.0	4.0			
	Subtotal (Hours)	0.5	12.0	16.0	92.0	0.0	0.0
	Subtotal (Cost)	\$106.00	\$1,920.00	\$2,400.00	\$10,120.00	\$0.00	\$0.00
Direct Expenses:							
	11" x 17" (200 @ 0.15)						\$30.00
	FedEx Shipping (plans to ARDOT)						\$60.00
	Subtotal Expenses =						<u>\$90.00</u>
	Total Fee - Task A =						\$14,636.00

City of Jonesboro - Hwy 18/Main St./Highland Dr. Supplement Request
 Proposed Man-hour Estimate

Task B - Modeling of Existing Storm Drainage System	Principal	Project Manager	Project Engineer	Designer	Party Chief	Instrument Man	Labor Total
Topo Survey of Existing Storm Drain System		2.0			24.0	24.0	
Add Data To Electronic Base		4.0		8.0			
Create Existing Storm Drain Network in StormCAD		8.0	80.0				
Subtotal (Hours)	0.0	14.0	80.0	8.0	24.0	24.0	
Subtotal (Cost)	\$0.00	\$2,240.00	\$12,000.00	\$880.00	\$1,920.00	\$1,440.00	\$18,480.00
Direct Expenses:							
11" x 17" (500 @ 0.15)							\$0.00
FedEx Shipping (plans to utility companies that don't allow ftp)							\$0.00
							\$0.00
Task C1 (Additional Fee)							\$18,480.00