



1459 Washington St.
Muscatine, IA 52761-5040
(563) 263-8933
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Public Works

City Transit
263-8152

MEMORANDUM

Equipment Maintenance
Roadway Maintenance
Collection & Drainage
Building & Grounds
Engineering

To: Mayor and City Council Members
CC: Gregg Mandsager, City Administrator
FROM: Brian Stineman, Public Works Director
DATE: September 27, 2016
RE: Mississippi Drive Corridor Project, Supplemental soil borings

INTRODUCTION:

The City has solicited proposals from two firms to do supplemental soil borings for the Mississippi Drive Corridor Project. The two Geotechnical firms are Terracon out of Bettendorf, Iowa, and Braun-Intertec out of Cedar Rapids, Iowa. The cost breakdown is as follows:

Braun-Intertec	\$14,270.00
Terracon	\$14,812.00

BACKGROUND:

When the original scope and plan for the Mississippi Drive Corridor Project was developed the need for additional soil borings was identified and it was decided these could be done at a later date if the existing data was not sufficient for the project. It was also agreed that when the design had progressed to a stage where we felt no significant changes would be anticipated and that additional soil boring were needed the City would contract directly for the additional borings in order to save costs associated with a third party markup. Now with the possibility that the city may be able to remove the derelict retaining wall between the old "high sidewalk" and the CP Railroad rails and not have to replace it, the designers need supplementary soil borings to do critical slope stability analysis to help with that decision.

RECOMMENDATION/RATIONALE:

Staff have reviewed the proposal from Braun-Intertec and recommend city council approve this proposal in the amount of \$14,270.00 with the cost to come from funds budgeted for the Mississippi Drive Project.

BACKUP INFORMATION:

1. Proposal Summary Sheet, dated August 24, 2016.

"I remember Muscatine for its sunsets. I have never seen any on either side of the ocean that equaled them" — Mark Twain



The Science You Build On.

Project Proposal

QTB044357

Mississippi Drive Improvements, Muscatine, Iowa

Client:

City of Muscatine
 Jim Edgmond
 1459 Washington Street
 Muscatine, IA 52761
 563-263-8933

Work Site Address:

Mississippi Drive
 Muscatine, IA 52761

Service Description:

Geotechnical Investigation

Description	Quantity	Units	Unit Price	Extension
Phase 1 Flotation Mounted Drilling Services				
Activity 1.1 Flotation Mounted Drill Rig and Crew				\$7,430.00
9100 Flotation Tire Drill Rig and Crew, per hour	24.00	Each	220.00	\$5,280.00
205 Site layout and utility clearance	4.00	Hour	105.00	\$420.00
1087 Mobilization	1.00	Each	500.00	\$500.00
9734 Asphalt Patching	23.00	Each	10.00	\$230.00
SUB-BILL Traffic Control	1.00	Each	1,000.00	\$1,000.00
Phase 1 Total:				\$7,430.00

Description	Quantity	Units	Unit Price	Extension
Phase 2 Soils				
Activity 2.1 Soils Test				\$5,410.00
1318 Standard Proctor Test (ASTM D 698)	4.00	Each	150.00	\$600.00
1734 California bearing ratio (ASTM D 1883), per molded specimen	4.00	Each	325.00	\$1,300.00
1186 Unconfined compression (ASTM D 2166), per sample	5.00	Each	110.00	\$550.00
1156 Atterberg Limits: LL and PL (ASTM D 4318), per sample	10.00	Each	110.00	\$1,100.00
1172 Mechanical (sieve)-hydrometer analysis (ASTM D 422), per sample	10.00	Each	150.00	\$1,500.00
1154 Moisture Content and Density (ASTM D 2937)	24.00	Each	15.00	\$360.00
Phase 2 Total:				\$5,410.00

Description	Quantity	Units	Unit Price	Extension
Phase 3 Engineering				
Activity 3.1 Analysis/Evaluation/Reports				\$1,430.00
138 Project Assistant	2.00	Hour	70.00	\$140.00
128 Senior Engineer	1.00	Hour	140.00	\$140.00
118 Staff Engineer	5.00	Hour	120.00	\$600.00
125 Project Manager	5.00	Hour	110.00	\$550.00
Phase 3 Total:				\$1,430.00

Proposal Total:	\$14,270.00
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