

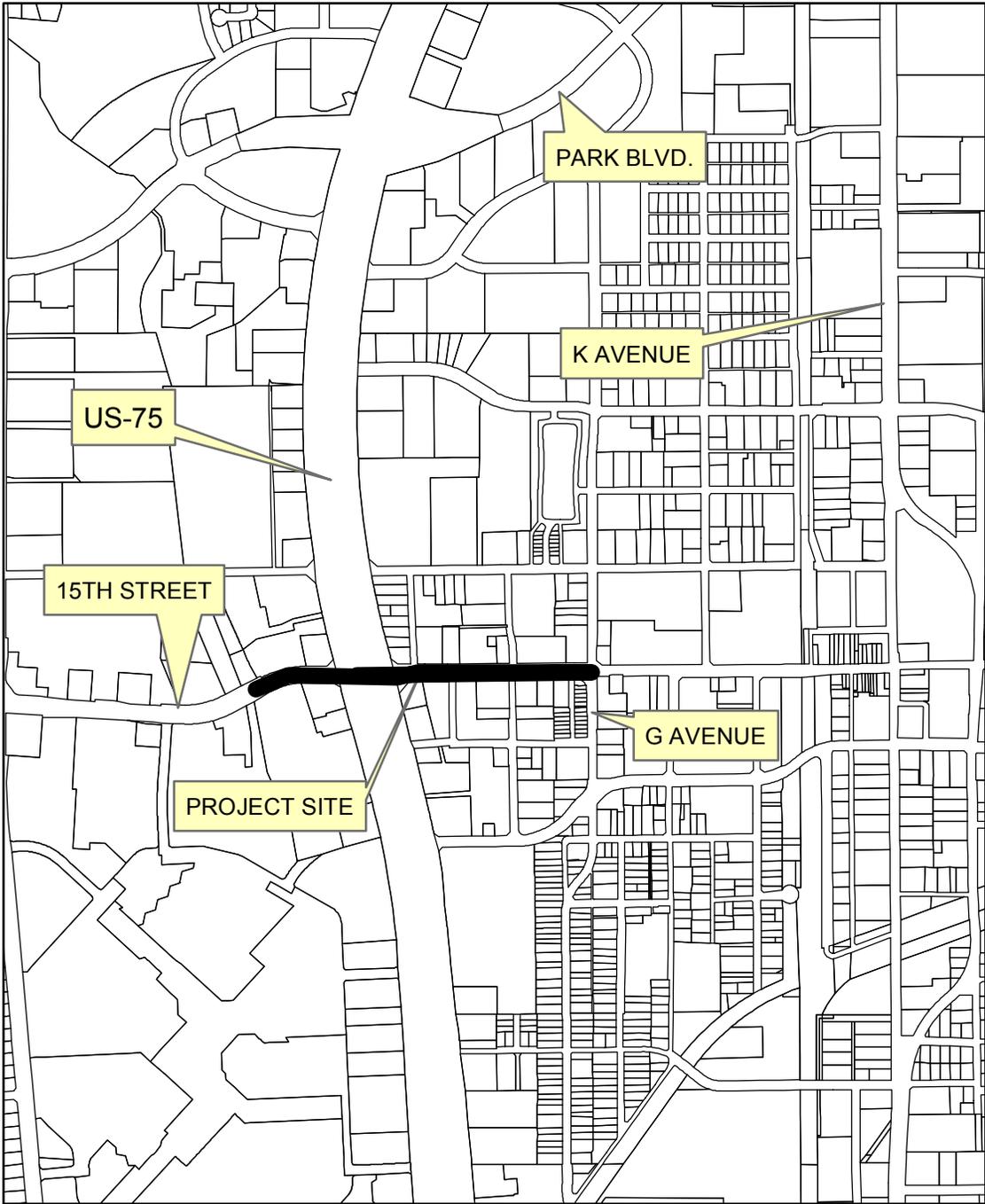


**CITY OF PLANO
COUNCIL AGENDA ITEM**

CITY SECRETARY'S USE ONLY					
<input type="checkbox"/> Consent <input type="checkbox"/> Regular <input type="checkbox"/> Statutory					
Council Meeting Date:		9/22/14			
Department:		Engineering			
Department Head:		Jack Carr, P.E.			
Agenda Coordinator (include phone #):		Kathleen Schonne (7198)		Project No. 5623	
CAPTION					
Approval of the purchase of material testing services for the 15 th Street Reconstruction – G Avenue to U.S. 75 project, in the amount of \$154,690 from GME Consulting Services, Inc. through an existing contract (No. 2014-12-D) authorizing the City Manager or his designee to execute all necessary documents.					
FINANCIAL SUMMARY					
<input type="checkbox"/> NOT APPLICABLE <input type="checkbox"/> OPERATING EXPENSE <input type="checkbox"/> REVENUE <input checked="" type="checkbox"/> CIP					
FISCAL YEAR:	2014-15; 2015-16	Prior Year (CIP Only)	Current Year	Future Years	TOTALS
Budget		121,258	761,500	4,731,000	5,613,758
Encumbered/Expended Amount		-121,258	-335,989	-4,995,535	-5,452,782
This Item		0	0	-154,690	-154,690
BALANCE		0	425,511	-419,225	6,286
FUND(S): STREET IMPROVEMENT CIP					
<p>COMMENTS: Funds are budgeted in the 2014-15 CIP and planned in 2015-16 for the construction related to the 15th Street – G Avenue to U.S. 75 project. This item, in the amount of \$154,690, will leave \$6,286 available for expenditures related to the project.</p> <p>STRATEGIC PLAN GOAL: Professional testing of construction materials relate to the City's goals of Safe Large City and Financially Strong City with Service Excellence.</p>					
SUMMARY OF ITEM					
Staff recommends approval of this expenditure for construction material testing on the 15 th Street Reconstruction – G Avenue to U.S. 75 project in the amount of \$154,689.95 to GME Consulting Services, Inc.					
https://maps.google.com/maps?q=15th+%26+F+Avenue&hl=en&ll=33.019639,-96.706553&spn=0.01236,0.022724&sll=33.019783,-96.708484&sspn=0.01236,0.022724&t=h&hnear=E+15th+St+%26+F+Ave,+Plano,+Texas+75074&z=16					
List of Supporting Documents: Location Map; Exhibit C			Other Departments, Boards, Commissions or Agencies N/A		

15TH STREET RECONSTRUCTION G AVENUE TO US-75

PROJECT No. 5623



CITY OF PLANO
ENGINEERING DEPARTMENT

1,000 500 0 1,000 Feet



1 inch = 1,000 feet



Exhibit C - Construction Testing Budget Estimate
GME Consulting Services, Inc.
15th Street Replacement
Proposal No. P14.05.0058
29-Aug-14

	Item	Unit	Unit Price	Quantity	Subtotal
Task 1. Earthwork Testing					
Given: 1,000 cy of backfill; avg depth 2 ft					
4,000 lf of utility trench; avg depth 4.5 ft; 90 days installation					
100,000 sf of flex base installation; 90 days installation					
Assumptions:					
9 trips for Proctor pick up					
General fill testing - 15 trips; 3 tests per trip					
Utility backfill testing; 9 lifts avg; 1 trip per day; 3 tests/trip					
Pavement subgrade and base density testing; 60 trips; 3 tests per trip					
1. Sample soil and perform Proctor & Atterberg Limits	C.1	ea	\$ 229.00	9	\$ 2,061.00
2. Engineering Technician pick up Proctor samples	UFS	hr	\$ 44.00	27	\$ 1,188.00
3. In place field density tests (general fill)	C.5	ea	\$ 44.00	45	\$ 1,980.00
4. In place field density tests (utility backfill)	C.5	ea	\$ 44.00	270	\$ 11,880.00
5. In place field density tests (pavement base))	C.5	ea	\$ 44.00	180	\$ 7,920.00
6. Engineering Tech (addnl site time density testing)	UFS	hr	\$ 44.00	270	\$ 11,880.00
7. Trip Charge (Earthwork)	B.4	ea	\$ 120.00	174	\$ 20,880.00
					Subtotal Task 1
					\$ 57,789.00
Task 2. Pier Installation Observation					
Given: 15 drilled piers					
Assumptions:					
4 days drilling at 8 hours/day for technician					
2 trips for engineer at 4 hrs/trip (piers)					
1. Senior Engineer (initiation of pier installation)	UFS	hr	\$ 175.00	8	\$ 1,400.00
2. Engineering Tech (pier installation observation)	UFS	hr	\$ 44.00	32	\$ 1,408.00
3. Concrete sampling and testing piers (set of 4 cyls)	E.2	ea	\$ 130.00	16	\$ 2,080.00
4. Cylinder pickup (up to 6 cyls)	E.5	ea	\$ 44.00	4	\$ 176.00
5. Trip Charge (Piers and Footings)	B.4	ea	\$ 120.00	10	\$ 1,200.00
					Subtotal Task 2
					\$ 6,264.00
Task 3. Reinforcing Steel Placement Observation					
Given: 90 pours					
Assumptions:					
50 pours require rebar observation as separate trip					
50 trips @ 1 hr/trip on site					
Remaining rebar observation immediately prior to concrete placement					
1. Engineering Tech (rebar observation)	UFS	hr	\$ 44.00	50	\$ 2,200.00
2. Trip Charge (Rebar)	B.4	ea	\$ 120.00	50	\$ 6,000.00
					Subtotal Task 3
					\$ 8,200.00
Task 4. Concrete Testing					
Given: 2,700 cy of pavement; 50 pours					
3,500 cy of miscellaneous pours; 40 pours					
Assumptions:					
4 mix design reviews					
50 paving pours @ 5 hours/ea					
40 misc pours @ 7 hrs/ea					
1 paving pour @ 5 hrs/ea					
5 misc pours @ 4 hrs/ea					
11 sets of test cylinders; 4 cylinders/set					
1. Mix design review	E.1	ea	\$ 275.00	4	\$ 1,100.00
2. Concrete sampling and testing (set of 4 cyls)	E.2	ea	\$ 130.00	90	\$ 11,700.00
3. Engineering Technician (additional time)	UFS	hr	\$ 44.00	400	\$ 17,600.00
4. Cylinder pickup (up to 6 cyls)	E.5	ea	\$ 44.00	90	\$ 3,960.00
5. Trip Charge	B.4	ea	\$ 120.00	180	\$ 21,600.00
					Subtotal Task 4
					\$ 55,960.00
Task 5. Project Management					
Given:					
Assumptions: 4 hrs/month					
1. Senior Project Engineer		hr	\$ 175.00	36	\$ 6,300.00
					Subtotal Task 7
					\$ 6,300.00
Grand Total Tasks 1 - 5					Grand Total
					\$ 134,513.00
Note: GME recommends adding a 10% contingency for Overtime fees on the project.					
Grand Total Tasks 1-5 w/ 15% contingency					\$ 154,689.95