

RESOLUTION R-42-06

**A RESOLUTION AUTHORIZING THE EXECUTION OF A
CONSTRUCTION MATERIALS ENGINEERING SERVICES AGREEMENT
FOR THE 2006 ROAD, SEWER, AND WATER REHABILITATION PROGRAM**

WHEREAS, the City of Wheaton, DuPage County, Illinois, is desirous of performing various infrastructure rehabilitation work on a project referred to as the 2006 Road, Sewer, and Water Rehabilitation Program; and

WHEREAS, the geotechnical engineering firm of Testing Service Corporation of Carol Stream, Illinois, has submitted a construction materials engineering services proposal for the 2006 Road, Sewer, and Water Rehabilitation Program; and

WHEREAS, it is necessary for the City to enter into an agreement for the construction materials engineering services.

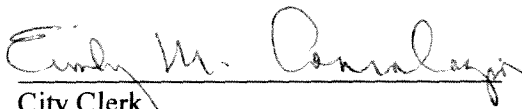
NOW, THEREFORE, BE IT RESOLVED by the Mayor and City Council of the City of Wheaton, Illinois, that the Mayor is authorized to execute an agreement between the City of Wheaton and the geotechnical engineering firm of Testing Service Corporation of Carol Stream, Illinois, for construction materials engineering services for the 2006 Road, Sewer, and Water Rehabilitation Program.

ADOPTED this 5th day of June, 2006.



Mayor

ATTEST:



City Clerk

Roll Call Vote

Ayes: Councilman Mouhelis
Councilman Sues
Councilman Bolds
Councilwoman Corry
Councilman Johnson
Mayor Carr
Councilman Levine

Nays: None
Absent: None

Motion Carried Unanimously


TESTING SERVICE CORPORATION
Local Offices:

457 E. Gundersen Drive, Carol Stream, IL 60188-2492
630.653.3920 • Fax 630.653.2726

209 Cleveland Street, Suite C, Cary, IL 60013-2978
847.516.0505 • Fax 847.516.0527

401 N. Riverside Drive, Suite 24, Gurnee, IL 60031-5914
847.249.6040 • Fax 847.249.6042

203 Earl Road, Suite A, Shorewood, IL 60431-9446
815.744.1510 • Fax 815.744.1728

8201 W. 183rd Street, Suite C, Tinley Park, IL 60477-9249
708.429.2080 • Fax 708.429.2144

May 16, 2006

Mr. Sarang A. Lagvankar, P.E.
City of Wheaton
303 West Wesley Street
P.O. Box 727
Wheaton, Illinois 60189-0727

RE: P.N. 35,911
Construction Materials Engineering
2006 Road, Sewer & Water Rehabilitation Program
MFT Section 06-00098-00-FP
Supplement for Revision from QC/QA Testing
to Method Spec Testing
Wheaton, Illinois

Dear Mr. Lagvankar:

Per your request, Testing Service Corporation (TSC) is pleased to submit this proposal to provide the Construction Materials Engineering Services that will be requested by you for the above referenced project. The broad objectives of our work will be to conduct and interpret tests and report our findings as directed by the City of Wheaton.

TSC is staffed and equipped to provide any of the following services that may be ordered by you:

- **Field Quality Control Services**
 - Observe proof-rolling operations.
 - Recommend amount of undercut using IDOT cone penetrometer procedure.
 - Perform in-place density tests on engineered fill/backfill and granular base course
 - Test plastic concrete for slump, air content, temperature, unit weight and cast test cylinders.
 - Establish rolling pattern for bituminous concrete pavement mix with nuclear density gauge.
 - Pickup samples in the field for laboratory tests.
- **Bituminous Concrete Batch Plant Quality Control Services**
 - Daily hot bin and extraction analysis.
 - Sampling and testing of stockpile materials.
 - Check and adjust mixing formulas, as necessary.
 - Check temperatures of bitumen, drum and final mix.
 - Mold Marshall samples and check for stability and flow or determine density of Prepared (HMA) specimen by means of Gyratory Compactor.
 - Other tests as required by current IDOT procedures guide.
- **Portland Cement Concrete Batch Plant Quality Control Services**
 - Verify that current IDOT mix design is being used.
 - Check moisture content of fine aggregate.
 - Perform sieve analysis on stockpiled materials, as required by IDOT criteria.
 - Check the slump, air and temperature of final mix.
 - Other tests, as required by current IDOT procedure guide.

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- **Laboratory**
 - Perform laboratory compaction curve for each soil type used.
 - Determine density and thickness for core samples submitted by contractor.
 - Aggregate gradation and soundness analysis.
 - Perform compressive and flexural strength tests for concrete cylinders and beams.
 - Other tests, as required.

Supervision of the testing, observation and reporting is provided by a Registered Professional Engineer. Reports will generally be issued on a weekly basis as work progresses. Invoices will be issued monthly, subsequent to the reporting period.

A budget amount of Forty Two Thousand Eight Hundred Eighty One Dollars (\$42,881.00) is recommended for your project. This estimate is based on a review of plans and specifications provided by the City of Wheaton and prior experience on similar projects. TSC's itemized estimate is included in the "Assumptions and Estimated Fee" portion of this proposal. Factors such as weather, contractor efficiency and deviations from minimum testing and observation requirements may significantly impact the CME budget.

The Services performed by TSC under this proposal are professional services which are not generally considered to be subject to prevailing wage regulations under Federal or Illinois law. This is presently the position of the Illinois Department of Labor. There are, however, currently efforts being taken to include some or all professional services rendered in connection with construction projects under the prevailing wage acts. Because we cannot foretell the outcome of these efforts, and because we believe prevailing wage rate classifications do not necessarily exist for the type of professional/technical services to be provided under this Proposal, the fees, hourly rates and other charges for the services to furnished under this Proposal are based upon the customary hourly wages paid to TSC's technical staff, which rates are not formulated to comply with either prevailing wage rate acts.

In the event that it is determined that prevailing wage rates are applicable to the services provided as a result of this Proposal, a retroactive equitable adjustment will be made in the event that the labor rates charged are less than those required to be paid under prevailing wage rates, and client agrees to pay to TSC for TSC's services at the prevailing wage rates which TSC may be liable, including adjusting the rates quoted in this proposal or any previously paid invoices retrospectively. If TSC has not yet performed its work, TSC will endeavor to notify client of any such adjustment and client may terminate this agreement.

TSC's fees include TSC's services being performed subject to the attached General Conditions which are incorporated herein. Unless we receive written instructions to the contrary, invoices will be sent to:

Mr. Sarang A. Lagvankar, P.E.
City of Wheaton
Box 727
303 West Wesley Street
Wheaton, Illinois 60189-0727
Phone: (630) 260-2000
fax number: (630) 260-2017

When completing the attached project data form, kindly indicate who is to receive copies of TSC's report and other project data.

Your consideration of our proposal is appreciated. We look forward to being of service to you on this project.

Respectfully Submitted,

TESTING SERVICE CORPORATION



Thomas J. Morris, P.E.
Vice President

Prepared By,



John W. Moky
Section Manager

TJM:JWM:ml

Approved and accepted for _____ by:

(NAME)

(TITLE)

(DATE)

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SCHEDULE OF CHARGES

ITEM I FIELD SERVICES

- A. Construction Materials Engineering (CME) Per Hour: \$ 72.75
- B. Technician IDOT QC/QA Level I BIT or PCC
or Nuclear Gauge Qualified Per Hour: \$ 72.75
- B. IDOT QC/QA Level II BIT or PCC Per Hour: \$ 82.75
- C. IDOT QC/QA Level III BIT or PCC Per Hour: \$ 92.75

CME Technician classification includes IDOT BIT/PCC and QC/QA Certified Technicians. The time is portal-to-portal from the office servicing the project. Increase hourly rate by 1.4 for over 8.0 hours per day or Saturday . Increase hourly rate by 1.8 for Sunday or Holiday work. The minimum trip charge is four (4) hours.

Engineering services for summary report preparation are invoiced at the Graduate Engineer Rate.

- D. Transportation, Light Vehicle Per Mile: \$ 0.45
- E. Use of Nuclear Moisture/Density Gauge Per Day: \$ 35.00
- F. Pickup Concrete Test Samples Per Trip: \$ 50.00

ITEM II LABORATORY SERVICES

A. Soils

- 1. Compaction Curve to establish the maximum dry unit weight and optimum water content
 - a. Modified (AASHTO T180, ASTM D1557) Each: \$ 165.00
 - b. Standard(AASHTO T99, ASTM D698) Each: \$ 155.00
 - c. Add for Methods B, C, or D Each: \$ 15.00
- 2. Thin-Walled Tube Samples
 - a. Combined Water Content & Dry Unit Weight Determination Each: \$ 14.00
 - b. Unconfined Compressive Strength Each: \$ 11.50

B. Portland Cement Concrete/Aggregates

- 1. Concrete Test Cylinders
 - a. Compressive Strength Each: \$ 15.00
 - b. Spares/Handling Charge Each: \$ 15.00
 - c. Trim End of Specimen When Necessary Each: \$ 18.00

- 2. Sieve Analysis
 - a. Unwashed Each: \$ 65.00
 - b. Washed Each: \$ 75.00

C. Bituminous Concrete

- 1. Extraction Analysis
 - a. Unwashed Each: \$ 180.00
 - b. Washed Each: \$ 200.00
- 2. Compaction of Bituminous Mixture by Gyratory Methods and Bulk Specific Gravity Test Set of Two \$ 180.00
- 3. Theoretical Maximum Specific Gravity of Paving Mixture Each: \$ 75.00
- 4. Calibration of Ignition Oven for Asphalt Content by IDOT Methods: Each: \$ 650.00
- 5. Determining Asphalt Content by Ignition Oven: Each: \$ 85.00
- 6. Determining Asphalt Content by Ignition Oven and Washed Gradation: Each: \$ 170.00
- 7. Bulk Density of Core Specimens Each: \$ 30.00

ITEM III CONSULTATION AND REPORT PREPARATION

- A. Registered Professional Engineer, Principal Per Hour: \$ 170.00
- B. Registered Professional Engineer Per Hour: \$ 130.00
- C. Graduate Civil Engineer Per Hour: \$ 95.00
- D. Transportation
 - 1. Light Vehicle Per Mile: \$ 0.45
 - 2. Public Transportation Cost + 10%

The above rates are valid through September 30, 2006.

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ASSUMPTIONS & ESTIMATED FEE

The following estimate is based on review of materials quantities provided by the City of Wheaton and the Illinois Department of Transportation's Project Procedures Guide. At the time this estimate was prepared the contractor's schedule was not available. The unit prices used below are based on our current cost structure.

Earth Excavation/Aggregate Base Course/Trench Backfill					
Item No.	ITEMS	Unit	Quantity	Unit Price	Amount
1	CME Technician	Hour		72.75	\$ 0.00
2	Travel, CME Technician	Hour		72.75	\$ 0.00
3	Travel, Light Vehicle	Mile		0.45	\$ 0.00
4	IDOT Cone Penetrometer	Day		35.00	\$ 0.00
5	Soil, Water Content and Dry Unit Weight Determination	Each		14.00	\$ 0.00
6	Laboratory Compaction Curve (Standard)	Each		155.00	\$ 0.00
7	Sieve Analysis, Unwashed	Each		65.00	\$ 0.00
Sub-Total:					\$ 0.00

Estimate Basis:

Portland Cement Concrete/Plant					
Item No.	ITEMS	Unit	Quantity	Unit Price	Amount
1	CME Technician	Hour	0	72.75	\$ 0.00
2	IDOT QC/QA Level I Technician	Hour	0	72.75	\$ 0.00
3	IDOT QC/QA Level II Technician	Hour	49	82.75	\$ 4,054.75
4	Travel, CME Technician	Hour	0	72.75	\$ 0.00
5	Travel, IDOT QC/QA Level I Technician	Hour	0	72.75	\$ 0.00
6	Travel, IDOT QC/QA Level II Technician	Hour	11	82.75	\$ 910.25
7	Travel, Light Vehicle	Mile	86	0.45	\$ 38.70
8	Pickup Test Samples	Each	0	50.00	\$ 0.00
9	Concrete Test Cylinders	Each	0	15.00	\$ 0.00
10	Sieve Analysis, Unwashed	Each	0	65.00	\$ 0.00

Portland Cement Concrete/Plant					
Item No.	ITEMS	Unit	Quantity	Unit Price	Amount
11	Sieve Analysis with #200 Wash	Each	20	75.00	\$ 1,500.00
12	Density of Core Sample	Each	0	30.00	\$ 0.00
Sub-Total:					\$ 6,503.70

Estimate Basis: Curb & Gutter: twenty five 1.5 hour trips, P.C.C. Base Course Widening: four 1.5 hour trips, Concrete Driveways: five 1 hour trips.

Portland Cement Concrete/Field					
Item No.	ITEMS	Unit	Quantity	Unit Price	Amount
1	CME Technician	Hour	0	72.75	\$ 0.00
2	IDOT QC/QA Level I Technician	Hour	58.0	72.75	\$ 4,219.50
3	Travel, CME Technician	Hour	0	72.75	\$ 0.00
4	Travel, IDOT QC/QA Level I Technician	Hour	17	72.75	\$ 1,236.75
5	Travel, Light Vehicle	Mile	350	0.45	\$ 157.50
6	Pickup Test Samples	Each	20	50.00	\$ 1,000.00
7	Concrete Test Cylinders	Each	120	15.00	\$ 1,800.00
Sub-Total:					\$ 8,413.75

Estimate Basis: Curb & Gutter: eighteen 2.5 hour trips, P.C.C. Base Course Widening: two 2.5 hour trips, Concrete Driveway: three 2.5 hour trips.

Bituminous Concrete/Plant					
Item No.	ITEMS	Unit	Quantity	Unit Price	Amount
1	CME Technician	Hour	0	72.75	\$ 0.00
2	IDOT QC/QA Level I Technician	Hour	0	72.75	\$ 0.00
2	IDOT QC/QA Level II Technician	Hour	153	82.75	\$ 12,660.75
3	Travel, CME Technician	Hour	0	72.75	\$ 0.00
4	Travel, IDOT QC/QA Level I Technician	Hour	0	72.75	\$ 0.00
4	Travel, IDOT QC/QA Level II Technician	Hour	25	82.75	\$ 2,068.75

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Bituminous Concrete/Plant					
Item No.	ITEMS	Unit	Quantity	Unit Price	Amount
5	Travel, Light Vehicle	Mile	350	0.45	\$ 157.50
6	Pickup Test Samples	Each	0	50.00	\$ 0.00
7	Nuclear Moisture Density Gauge	Day	0	35.00	\$ 0.00
8	Bituminous Concrete Extraction Analysis	Each	18	180.00	\$ 3,240.00
9	Compaction of Bituminous Mixture by Gyratory Methods and Bulk Specific Gravity Test	Set of Two	18	180.00	\$ 3,240.00
10	Theoretical Maximum Specific Gravity of Paving Mixture	Each	18	75.00	\$ 1,350.00
Sub-Total:					\$ 22,717.00

Estimate Basis: N50 & N70 Surface Course: eighteen 4.5 hour trips, Bituminous Base Course & BAM Base Course Patching: eight 4.5 hour trips, Level Binder: eight 4.5 hour trips.

Bituminous Concrete/Field					
Item No.	ITEMS	Unit	Quantity	Unit Price	Amount
1	CME Technician	Hour	0	72.75	\$ 0.00
2	IDOT QC/QA Level I Technician	Hour	42	72.75	\$ 3,055.50
3	Travel, CME Technician	Hour	0	72.75	\$ 0.00
4	Travel, QC/QA Level I Technician	Hour	14	72.75	\$ 1,018.50
5	Travel, Light Vehicle	Mile	250	0.45	\$ 112.50
6	Pickup Test Samples	Each	0	50.00	\$ 0.00
7	Nuclear Moisture Density Gauge	Day	14	35.00	\$ 490.00
8	Bituminous Concrete Extraction Analysis	Each	0	180.00	\$ 0.00
9	Compaction of Bituminous Mixture by Gyratory Methods and Bulk Specific Gravity Test	Set of Two	0	180.00	\$ 0.00
10	Density of Core Sample	Each	0	30.00	\$ 0.00
Sub-Total:					\$ 4,676.50

Estimate Basis: Surface Course: eleven 3.0 hour trips, BAM & Base Course Patching: three 3 hour trips.

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Project Coordination & Report Preparation					
Item No.	ITEMS	Unit	Quantity	Unit Price	Amount
1	Project Engineer	Hour	6	95.00	\$ 570.00
2	Secretary	N/C	0	0.00	\$ 0.00
Sub-Total:					\$ 570.00

TSC's base fee schedule includes up to three copies of each report.

Estimated Total: \$ 42,880.95

RECOMMENDED BUDGET: \$ 42,881.00