

**RESOLUTION R-20-08**

**A RESOLUTION AUTHORIZING THE EXECUTION OF A  
CONSTRUCTION MATERIALS ENGINEERING SERVICES AGREEMENT  
FOR THE 2008 ROAD, SEWER, AND WATER REHABILITATION PROGRAM**

WHEREAS, the City of Wheaton, DuPage County, Illinois, is desirous of performing certain infrastructure rehabilitation work on the 2008 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 2008 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.

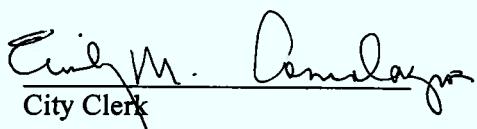
NOW, THEREFORE, BE IT RESOLVED by the Mayor and City Council of the City of Wheaton, Illinois, that the Mayor is authorized to execute an agreement between the City of Wheaton and the geotechnical engineering firm of Testing Service Corporation of Carol Stream, Illinois, for construction materials engineering services for the 2008 Road, Sewer, and Water Rehabilitation Program.

ADOPTED this 7th day of April, 2008.



Michael Gresk  
MAYOR

ATTEST:



Cindy M. Consalvo  
City Clerk

**ROLL CALL VOTE**

Ayes:	Councilman Mouhelis Councilman Prendiville Councilman Suess Councilwoman Corry Councilman Johnson
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Nays:	None
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Absent:	Mayor Gresk Councilman Levine
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**Motion Carried Unanimously**

**Agreement Between the City of Wheaton, Illinois  
and Testing Service Corporation  
for 2008 Road, Sewer and Water Rehabilitation Program**

**This Agreement** is entered into by and between the City of Wheaton, an Illinois municipal corporation ("City"), 303 West Wesley Street, Wheaton, IL 60187, and Testing Service Corporation ("Consultant"), 360 S. Main place, Carol Stream, IL, 60188-2404.

**WITNESSETH:**

**Whereas**, the City has determined that it is necessary to obtain the services of a professional engineering consultant to provide construction materials engineering services for the 2008 Road, Sewer, and Water Rehabilitation Program; and

**Whereas**, the City has heretofore requested proposals for the work, materials, and services necessary to perform the services and complete all the work; and

**Whereas**, the Consultant did submit a proposal to the City for the work specified, which is attached hereto and incorporated herein as Exhibit A; and

**Whereas**, the City did on the 7<sup>th</sup> day of April, 2008, select the Consultant for the work specified in this Agreement and Exhibits.

**Now, therefore**, for in consideration of their mutual promises, terms, covenants, agreements, and conditions recited in this Agreement, the City and the Consultant hereto do hereby agree as follows:

1. *Scope of Services.* The Consultant shall perform the services as described in the Consultant's Project Description and Project Task Listing identified in Exhibit B. The Consultant represents and warrants that it shall perform the services in a manner consistent with the level of care and skill customarily exercised by other professional Consultants under similar circumstances. In furnishing resident engineering and construction observation services, the Consultant shall generally determine for the City that the completed project conforms to the Contract Documents. The Consultant shall not be responsible for the Contractor's construction means, methods, techniques, sequences, procedures, or health and safety precautions or programs. Further, except as otherwise provided in this Agreement, the Consultant shall not be responsible for the Contractor's failure to perform the construction work in accordance with the Contract Documents.

2. *Compensation.* The City shall compensate the Consultant for services performed as described in the Consultant's Project Cost identified in Exhibit B. Compensation shall be based on monthly invoices submitted to the City for services performed in conjunction with the project in the Consultant's previous billing cycle. Payment by the City shall be made within thirty (30) days from the date of the invoice.

3. *Additional Services.* The Consultant shall perform only those services specified in this Agreement and attached Exhibits. In the event the Consultant or the City determines that additional services are required to complete the project, such additional services shall not be performed unless directed in writing by the City. Terms, frequency, and prices for additional services shall be as mutually agreed upon in writing by the City and the Consultant.

4. *Hold Harmless and Indemnification.* The Consultant shall defend, hold harmless, and indemnify the City, its directors, officers, employees, and agents, from and against any and all liabilities, losses, claims, demands, damages, fines, penalties, costs, and expenses, including, but not limited to, reasonable attorneys' fees and costs of litigation, and all causes of action of any kind or character, except as otherwise provided herein, to the extent that such matter arises from either of the following:

- a) The Consultant's breach of any term, provision, warranty, standard or requirement of this Agreement including, but not limited to, those provisions of the contract documents pertaining to the Consultant's services; or
- b) The negligence or willful misconduct of the Consultant, its employees, agents, representatives, and subcontractors.

The City shall defend, hold harmless, and indemnify the Consultant, its directors, officers, employees, and agents, from and against any and all liabilities, losses, claims, demands, damages, fines, penalties, costs, and expenses, including, but not limited to, reasonable attorneys' fees and costs of litigation, and all causes of action of any kind or character, except as otherwise provided herein, to the extent that such matter arises from either of the following:

- a) The City's breach of any term, provision, warranty, standard or requirement of this Agreement including, but not limited to, those provisions of the contract documents pertaining to the City's work; or
- b) The negligence or willful misconduct of the City, its employees, agents, representatives, and subcontractors.

In the event that any claim for indemnification hereunder arises from the negligence or willful misconduct of both the Consultant and the City, the parties agree that any and all liabilities, losses, claims, demands, damages, fines, penalties, costs, and expenses shall be

apportioned between the parties on the basis of their comparative degrees of fault, except as otherwise herein provided.

5. *Insurance.* The Consultant and each of its agents, subcontractors, and consultants hired to perform any services provided for herein shall purchase and maintain during the term of this contract insurance coverage which will satisfactorily insure the Consultant and, where appropriate, the City against claims and liabilities which may arise out of the services referred to in this Agreement. Such insurance shall be issued by companies authorized to do business in the State of Illinois and approved by the City. The insurance coverages shall include, but not necessarily be limited to, the following:

- a) Worker's compensation insurance with limits as required by the applicable statutes of the State of Illinois. The employer's liability coverage under the worker's compensation policy shall have limits of not less than FIVE HUNDRED THOUSAND DOLLARS (\$500,000.00) each accident/injury and FIVE HUNDRED THOUSAND DOLLARS (\$500,000.00) each employee/disease.
- b) Commercial general liability insurance protecting the Consultant against any and all public liability claims which may arise in the course of performance of this contract. The limits of liability shall be not less than ONE MILLION DOLLARS (\$1,000,000.00) each occurrence bodily injury/property damage combined single limit and ONE MILLION DOLLARS (\$1,000,000.00) aggregate bodily injury/property damage combined single limit. The policy of commercial liability insurance shall include contractual liability coverage and an endorsement naming the City as an additional insured.
- c) Commercial automobile liability insurance covering the Consultant's owned, non-owned, and leased vehicles which protects the Consultant against automobile liability claims whether on or off of the City's premises with coverage limits of not less than ONE MILLION DOLLARS (\$1,000,000.00) per accident bodily injury/property damage combined single limit.
- d) Umbrella or excess liability insurance with limits of not less than ONE MILLION DOLLARS (\$1,000,000.00) per occurrence bodily injury/property damage combined single unit. The umbrella or excess coverage shall apply in excess of the limits stated in subparagraphs B and C above, and shall either include an endorsement naming the City as an additional insured or provide "following form" coverage for the primary insurance.
- e) Professional liability insurance with limits of not less than ONE MILLION DOLLARS (\$1,000,000.00) per claim covering the Consultant against all sums which the Consultant may become obligated to pay on account of any liability arising out of the

performance of the professional services for the City under this contract when caused by any negligence act, error, or omission of the Consultant or of any person employed by the Consultant or any others for whose actions the Consultant is legally liable. The professional liability insurance shall remain in force for a period for not less than four (4) years after the completion of the services to be performed by the Consultant under this contract.

*6. Compliance with Laws.* The Consultant shall comply with all applicable federal, state, and local laws, rules, and regulations, and all City ordinances, rules and regulations now in force or hereafter enacted, in the performance of the services required under this Agreement.

*7. Termination of Contract.* If the Consultant fails to perform according to the terms of this Agreement, then the City may terminate this Agreement upon seven (7) days written notice to the Consultant. In the event of a termination, the City shall pay the Consultant for services performed as of the effective date of termination, less any sums attributable, directly or indirectly, to the Consultant's breach. The written notice required under this paragraph shall be either (i) served personally during regular business hours; (ii) served by facsimile data transmission during regular business hours; or (iii) served by certified or registered mail, return receipt requested, addressed to the address listed in this Agreement with postage prepaid and deposited in the United States mail. Notice served personally and by facsimile data transmission shall be effective upon receipt, and notice served by United States mail shall be effective three (3) business days after mailing.

*8. Discrimination Prohibited.* The Consultant shall comply with the provisions of the Illinois Human Rights Act, as amended, 775 ILCS 5/1-101 et seq. (1992 State Bar Edition), and with all rules and regulations established by the Department of Human Rights. The Consultant agrees that it will not deny employment to any person or refuse to enter into any contract for services provided for in this Agreement to be performed on its behalf on the basis of unlawful discrimination as defined in the Illinois Human Rights Act.

*9. Status of Independent Consultant.* Both the City and the Consultant agree that the Consultant will act as an Independent Consultant in the performance of duties under this Agreement. Accordingly, the Independent Consultant shall be responsible for payment all taxes including federal, state, and local taxes arising out of the Consultant's activities in accordance with this Agreement, including by way of illustration but not limitation, federal and state income tax, social security tax, and any other taxes or license fees as may be required under the law. The Consultant further acknowledges under the terms of this Agreement, that it is not an agent, employee, or servant for the City for any purpose, and that it shall not hold itself out as an agent, employee, or servant of the City under any circumstance for any reason. The Consultant is not in any way authorized to make any contract, agreement, or promise on behalf of City, or to create any implied obligation on behalf of the City, and the Consultant specifically agrees that it shall not do so. The City

shall have no obligation to provide any compensation or benefits to the Consultant, except those specifically identified in this Agreement. The City shall not have the authority to control the method or manner by which the Consultant complies with the terms of this Agreement.

10. *Assignment; Successors and Assigns.* This Agreement may not be assigned by either of the parties hereto without the written consent of all other parties. Upon approval of assignment, this Agreement and the rights, interests and obligations hereunder shall be binding upon and shall inure to the benefit of the parties hereto and their respective successors and assigns.

11. *Recovery of Costs.* In the event the City is required to file any action, whether legal or equitable, to enforce any provision of this Agreement, the City shall be entitled to recover all costs and expenses incurred as a result of the action or proceeding, including expert witness and attorney's fees, if so provided in any order of the Court.

12. *Notification.* All notification under this Agreement shall be made as follows:

If to the Consultant:

Testing Service Corporation  
Attn: John W. Moky,  
Section Mgr.  
360 S. Main Place  
Carol Stream, IL 60188-2404

If to the City:

City of Wheaton  
Attn: Director of Engineering  
303 W. Wesley Street, Box 727  
Wheaton, IL 60189-727

13. *Waiver.* Any failure of either the City or the Consultant to strictly enforce any term, right, or condition of this Agreement shall not be construed as a waiver of such term, right, or condition.

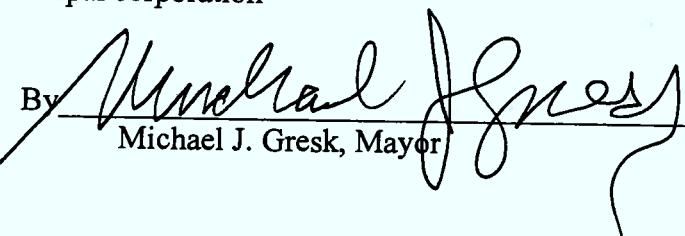
14. *Integration.* The provisions set forth in this Agreement represent the entire agreement between the parties and supersede all prior agreements, contracts, promises, and representations, as it is the intent of the parties to provide for a complete integration within the terms of this Agreement. This Agreement may be modified only by a further written agreement between the parties, and no modification shall be effective unless properly approved and signed by each party.

15. *Non-disclosure.* During the course of the work specified in this Agreement, the Consultant may have access to proprietary and confidential information including, but not limited to, methods, processes, formulae, compositions, systems, techniques, computer programs, databases, research projects, resident name and address information, financial data, and other data. The Consultant shall not use such information for any purpose other than described in this Agreement and Exhibits and shall not directly or indirectly disclose such information to any third party without the express written consent of the City.

16. *Severability.* If any provision of this Contract is held to be illegal, invalid, or unenforceable, such provision shall be fully severable, and this Contract shall be construed and enforced as if such illegal, invalid, or unenforceable provision were never a part hereof; the remaining provisions hereof shall remain in full force and effect and shall not be affected by the illegal, invalid, or unenforceable provision or by its severance; and in lieu of such illegal, invalid, or unenforceable provision there shall be added automatically as part of this Agreement, a provision as similar in its terms to such illegal, invalid, or unenforceable provision as may be possible and legal, valid and enforceable.

In Witness Whereof, the parties have entered into this Agreement this  
7/15 day of April, 2008.

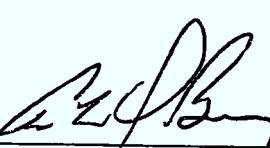
City of Wheaton, an Illinois  
municipal corporation

By   
Michael J. Gresk, Mayor

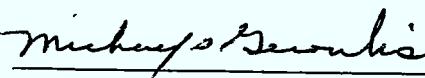
Attest:

  
Emily Consolazio, City Clerk

Testing Service Corporation

By   
Allen L. DuBose, President

Attest:

  
MICHAEL S. GEROULIS, ASST. SEC.

## **Special Provisions for: Wages of Employees on Public Works**

This contract may be subject to the "Prevailing Wage Act," 820 ILCS 130/1 et seq ("The Act"). If it is determined that The Act applies to this contract, all contractors and subcontractors subject to its terms shall comply with all of its provisions, including, but not limited to the following:

1. Not less than the prevailing rate of wages as found by the City of Wheaton or Department of Labor or determined by a court on review shall be paid to all laborers, workers and mechanics performing work under this contract. These prevailing rates of wages are included in this contract.
2. In all contractor's bonds the contractor shall include a provision that will guarantee the faithful performance of the prevailing wage clause provided by this contract.
3. If the Department of Labor revises the prevailing rate of hourly wages to be paid by the public body, the revised rate shall apply to the contractor, and the public body shall be responsible to notify the contractor and each subcontractor, of the revised rate.
4. The contractor and each subcontractor shall:
  - a. make and keep, for a period of not less than 3 years, records of all laborers, mechanics, and other workers employed by them on the project; the records shall include each worker's name, address, telephone number when available, social security number, classification or classifications, the hourly wages paid in each pay period, the number of hours worked each day, and the starting and ending times of work each day; and
  - b. submit monthly, in person, by mail, or electronically a certified payroll to the public body in charge of the project. The certified payroll shall consist of a complete copy of the records identified in paragraph (1) of this subsection (a). The certified payroll shall be accompanied by a statement signed by the contractor or subcontractor which avers that:
    - i. such records are true and accurate;
    - ii. the hourly rate paid to each worker is not less than the general prevailing rate of hourly wages required by this Act; and
    - iii. the contractor or subcontractor is aware that filing a certified payroll that he or she knows to be false is a Class B misdemeanor.

5. Upon 2 business days' notice, the contractor and each subcontractor shall make available for inspection the records identified in paragraph 4 to the City of Wheaton, its officers and agents, and to the Director of Labor and his deputies and agents during reasonable hours at a location within this State.



R-20-06

EXHIBIT A

TESTING SERVICE CORPORATION

March 18, 2008

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

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 60404-9446  
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

650 Peace Road, Suite D, DeKalb, IL 60115-8401  
815.748.2100 • Fax 815.748.2100

2235 23<sup>rd</sup> Avenue, Rockford, IL 61104-7334  
815.394.2562 • Fax 815.394.2566

RE: P.N. 40,380 Revised  
Construction Materials Engineering  
2008 Road, Sewer & Water Rehabilitation Program  
QC/QA 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.

- **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.

TSC's field technicians are represented by Local 150 of the International Union of Operating Engineers. 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 Twenty One Thousand Two Hundred Sixty Six Dollars (\$21,266.00) 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 subject to prevailing wage regulations under Illinois law. Prevailing wage rates are established in June by the State of Illinois. Should the established wage be changed between the time of this proposal and the time of work, it will be necessary to revise this proposal so that the rates required by law are properly reflected. Prevailing wage categories are defined as follows:

Material Tester I: Hand coring and drilling for testing of materials; field inspection of uncured concrete and asphalt.

Material Tester II: Field inspection of welds, structural steel, fireproofing, masonry, soil, facade, reinforcing steel, formwork, cured concrete and concrete and asphalt batch plants, adjusting proportions of bituminous mixtures.

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

City of Wheaton  
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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

Prepared By,



John W. Moky

Section Manager

Thomas J. Morris, P.E.  
Executive Vice President

TJM:JWM:kw

Enc: General Conditions  
Project Data Sheet

Approved and accepted for \_\_\_\_\_ by:

\_\_\_\_\_  
(NAME)

\_\_\_\_\_  
(TITLE)

\_\_\_\_\_  
(DATE)

## SCHEDULE OF CHARGES

### ITEM I FIELD SERVICES

A. Material Tester I	Per Hour: \$ 78.50
B. Material Tester II	Per Hour: \$ 88.50
C. IDOT QC/QA Level III BIT or PCC	Per Hour: \$ 92.50

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 for 0 to 4 hours is four (4) hours and for 4 to 8 hours is eight (8) hours Monday through Friday and eight (8) hours on Saturday and Sunday.

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

D. Transportation, Light Vehicle	Per Mile: \$ 0.50
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: \$ 170.00
b. Standard( AASHTO T99, ASTM D698)	Each: \$ 160.00
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: \$ 14.50
b. Unconfined Compressive Strength	Each: \$ 12.00

#### B. Portland Cement Concrete/Aggregates

1. Concrete Test Cylinders	
a. Compressive Strength	Each: \$ 15.50
b. Spares/Handling Charge	Each: \$ 15.50
c. Trim End of Specimen When Necessary	Each: \$ 18.75

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2. Sieve Analysis		
a. Unwashed	Each:	\$ 62.50
b. Washed	Each:	\$ 77.50
<b>C. Bituminous Concrete</b>		
1. Extraction Analysis		
a. Unwashed	Each:	\$ 185.00
b. Washed	Each:	\$ 205.00
2. Compaction of Bituminous Mixture by Gyratory Methods and Bulk Specific Gravity Test	Set of Two	\$ 185.00
3. Theoretical Maximum Specific Gravity of Paving Mixture	Each:	\$ 90.00
4. Calibration of Ignition Oven for Asphalt Content by IDOT Methods:	Each:	\$ 650.00
5. Determining Asphalt Content by Ignition Oven:	Each:	\$ 88.00
6. Determining Asphalt Content by Ignition Oven and Washed Gradation:	Each:	\$ 175.00
7. Bulk Density of Core Specimens	Each:	\$ 35.00

**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:	\$ 0.50
2. Public Transportation		Cost + 10%

With the exception of the Material Tester I & II rates, the above rates are valid through December 31, 2008. After June 30, 2008, the Material Tester I & II rates will be increased by the net increased Wage and Union benefit cost incurred by TSC. This amount will not exceed \$5.00 per hour.

### 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	Material Tester II	Hour		88.50	\$ 0.00
2	Travel, Material Tester II	Hour		88.50	\$ 0.00
3	Travel, Light Vehicle	Mile		0.50	\$ 0.00
4	Nuclear Moisture Density Gauge	Day		35.00	\$ 0.00
5	Soil, Water Content and Dry Unit Weight Determination	Each		14.50	\$ 0.00
6	Laboratory Compaction Curve (Standard)	Each		160.00	\$ 0.00
7	Sieve Analysis, Unwashed	Each		62.50	\$ 0.00
Sub-Total:					\$ 0.00

Estimate Basis:

Portland Cement Concrete/Plant					
Item No.	ITEMS	Unit	Quantity	Unit Price	Amount
1	Material Tester II	Hour		88.50	\$ 0.00
2	Travel, Material Tester II	Hour		88.50	\$ 0.00
3	Travel, Light Vehicle	Mile		0.50	\$ 0.00
4	Pickup Test Samples	Each		50.00	\$ 0.00
5	Concrete Test Cylinders	Each		15.50	\$ 0.00
6	Sieve Analysis, Unwashed	Each		62.50	\$ 0.00
7	Sieve Analysis with #200 Wash	Each		77.50	\$ 0.00
8	Density of Core Sample	Each		31.00	\$ 0.00
Sub-Total:					\$ 0.00

Estimate Basis:

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Portland Cement Concrete/Field					
Item No.	ITEMS	Unit	Quantity	Unit Price	Amount
1	Material Tester I	Hour	31	78.50	\$ 2,433.50
2	Travel, Material Tester I	Hour	10	78.50	\$ 785.00
3	Travel, Light Vehicle	Mile	190	0.50	\$ 95.00
4	Pickup Test Samples	Each	10	50.00	\$ 500.00
5	Concrete Test Cylinders	Each	52	15.50	\$ 806.00
Sub-Total:					\$ 4,619.50

Estimate Basis: Curb & Gutter: four 4 hour trips, PCC Base Course Widening: two 3 hour trips, PCC Sidewalks: three 3 hour trips.

Bituminous Concrete/Plant					
Item No.	ITEMS	Unit	Quantity	Unit Price	Amount
1	Material Tester II	Hour		88.50	\$ 0.00
2	Travel, Material Tester II	Hour		88.50	\$ 0.00
3	Travel, Light Vehicle	Mile		0.50	\$ 0.00
4	Pickup Test Samples	Each		50.00	\$ 0.00
5	Nuclear Moisture Density Gauge	Day		35.00	\$ 0.00
6	Bituminous Concrete Extraction Analysis	Each		185.00	\$ 0.00
7	Compaction of Bituminous Mixture by Gyratory Methods and Bulk Specific Gravity Test	Set of Two		185.00	\$ 0.00
8	Theoretical Maximum Specific Gravity of Paving Mixture	Each		85.00	\$ 0.00
Sub-Total:					\$ 0.00

Estimate Basis:

Bituminous Concrete/Field					
Item No.	ITEMS	Unit	Quantity	Unit Price	Amount
1	Material Tester I	Hour	118	78.50	\$ 9,263.00
2	Travel, Material Tester I	Hour	22	78.50	\$ 1,727.00
3	Travel, Light Vehicle	Mile	400	0.50	\$ 200.00
4	Pickup Test Samples	Each		50.00	\$ 0.00

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Bituminous Concrete/Field					
Item No.	ITEMS	Unit	Quantity	Unit Price	Amount
5	Nuclear Moisture Density Gauge	Day	22	35.00	\$ 770.00
6	Bituminous Concrete Extraction Analysis	Each	3	185.00	\$ 555.00
7	Compaction of Bituminous Mixture by Gyratory Methods and Bulk Specific Gravity Test	Set of Two	3	185.00	\$ 555.00
8	Density of Core Sample	Each	40	35.00	\$ 1,400.00
Sub-Total:					\$14,470.00

Estimate Basis: Patching: ten 7 hour trips, N50: eleven 4 hour trips, N70: one 4 hour trip.

Project Coordination & Report Preparation					
Item No.	ITEMS	Unit	Quantity	Unit Price	Amount
1	Project Engineer	Hour	8	95.00	\$ 760.00
2	QC Manager	Hour	16	88.50	\$ 1416.00
Sub-Total:					\$ 2,176.00

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

**Estimated Total:** \$ 21,265.50

**RECOMMENDED BUDGET:** \$ 21,266.00