

**VILLAGE OF DOWNERS GROVE  
REPORT FOR THE VILLAGE COUNCIL  
MARCH 16, 2010 AGENDA**

<b>SUBJECT:</b>	<b>TYPE:</b>	<b>SUBMITTED BY:</b>
2010 Geotechnical and Material Testing Services	✓ Resolution Ordinance Motion Discussion Only	Nan Newlon, P.E. Director of Public Works

**SYNOPSIS**

Resolutions have been prepared to award contracts to Claude H. Hurley Company and ECS, LLC to perform Geotechnical Engineering and Materials Testing Services in FY10 in the not-to-exceed amount of \$305,000 for each contract.

**STRATEGIC PLAN ALIGNMENT**

The Five Year Plan and Goals for 2014 identified *Top Quality Village Infrastructure and Facilities*.

**FISCAL IMPACT**

The FY10 Budget includes \$610,000 for Geotechnical Engineering and Materials Testing Services for 2010 CIP projects. A summary of the funding locations and levels is provided in the table below:

<b>Fund</b>	<b>Allocation Amount</b>
220 Capital	\$ 120,000
243 Stormwater	\$ 330,000
481 Water	\$ 125,000
107 & 110 TIF	\$ 35,000
<b>TOTAL</b>	<b>\$ 610,000</b>

Each contract is in an amount not-to-exceed \$305,000.00 and services would be authorized under specific work orders with individual not-to-exceed amounts and in accordance with the unit prices specified within the contracts.

**UPDATE & RECOMMENDATION**

This item was discussed at the March 9, 2010 meeting. Following that meeting, staff was advised that the cost of each proposed contract for Geotechnical Engineering and Materials Testing Services is \$152,500, not \$305,000 as reported by staff. Thus, the combined not-to-exceed amount for Geotechnical Engineering and Materials Testing Services with Claude H. Hurley Company and ECS, LLC would be \$305,000, and not \$610,000, as previously reported. Staff has updated the contract language to reflect this correction.

Staff recommends approval of the revised contract on the March 16, 2010 consent agenda.

**BACKGROUND**

In January 2010, staff distributed a Request for Proposal (RFP) for professional geotechnical engineering services, including soils and material inspections and analyses, as related to Village capital projects for FY10. The RFP was advertised on both the Village’s website and Demandstar. Pursuant to

the Village's Purchasing Policy, a Qualifications Based Selection (QBS) was used in selection and recommendation of consultants. QBS is a competitive, negotiated procurement process for selection based on qualifications and competence in relation to the work to be performed. Completed responses from nine area firms were received on January 29, 2010. The proposals were reviewed using five criteria: general qualifications; testing facilities and capabilities; demonstrated experience; key staff; and proposed services/fees.

In reviewing the overall volume and complexity of the FY10 construction projects, staff is recommending that two firms be selected to provide these services. Working with two firms will allow staff to focus on turnaround time and other service factors related to the project. It also allows the Village to ensure that at least one of the two firms has a strong background in environmental testing and monitoring which will be required for some of the stormwater projects.

Staff found that the Village's current service provider, Claude H. Hurley, Co., continues to be very cost effective and responsive, but lacks environmental project experience. Hurley provided testing services for the Village in 2008, 2009, and for a period of 13 years prior to 2005. Their staff is well-skilled and dependable.

ECS, LLC was found to be the next most cost effective company and possesses the desired environmental capability. ECS, LLC has performed similar work for the Villages of Lombard, Westmont and Downers Grove. ECS, LLC. Their staff was also found to be well-skilled and dependable on past projects.

#### **ATTACHMENTS**

Resolutions

Contracts

Contractor Evaluation Forms

RESOLUTION NO. \_\_\_\_\_

**A RESOLUTION AUTHORIZING EXECUTION OF AN  
AGREEMENT BETWEEN THE VILLAGE OF DOWNERS GROVE  
AND CLAUDE H. HURLEY COMPANY**

BE IT RESOLVED by the Village Council of the Village of Downers Grove, DuPage County, Illinois,  
as follows:

1. That the form and substance of a certain Agreement (the "Agreement"), between the Village of Downers Grove (the "Village") and Claude H. Hurley Company (the "Proposer"), to perform Geotechnical Engineering and Materials Testing Services for FY 10, as set forth in the form of the Agreement submitted to this meeting with the recommendation of the Village Manager, is hereby approved.
2. That the Village Manager and Village Clerk are hereby respectively authorized and directed for and on behalf of the Village to execute, attest, seal and deliver the Agreement, substantially in the form approved in the foregoing paragraph of this Resolution, together with such changes as the Manager shall deem necessary.
3. That the proper officials, agents and employees of the Village are hereby authorized and directed to take such further action as they may deem necessary or appropriate to perform all obligations and commitments of the Village in accordance with the provisions of the Agreement.
4. That all resolutions or parts of resolutions in conflict with the provisions of this Resolution are hereby repealed.
5. That this Resolution shall be in full force and effect from and after its passage as provided by law.

\_\_\_\_\_  
Mayor

Passed:

Attest: \_\_\_\_\_

Village Clerk

Village of Downers Grove

**IV. PROPOSAL/CONTRACT FORM (Proposer)**

**\*\*\*THIS PROPOSAL, WHEN ACCEPTED AND SIGNED BY AN AUTHORIZED SIGNATORY OF THE VILLAGE OF DOWNERS GROVE, SHALL BECOME A CONTRACT BINDING UPON BOTH PARTIES.**

**Entire Block Must Be Completed When A Submitted Bid Is To Be Considered For Award**

**PROPOSER:**

Claude H. Hurley Company  
Company Name

Date: 1-28-10

650 West Grand Avenue - Suite 107  
Street Address of Company

Packerfan175@ameritech.net  
Email Address

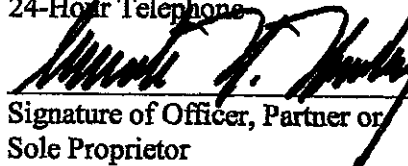
Elmhurst, Illinois 60126  
City, State, Zip

Claude H. Hurley, P.E.  
Contact Name (Print)

630-279-7762  
Business Phone

630-279-7762  
24-Hour Telephone

630-279-7795  
Fax

  
Signature of Officer, Partner or  
Sole Proprietor

Claude H. Hurley, P.E., President  
Print Name & Title

ATTEST: If a Corporation

Bette A. Richter  
Signature of Corporation Secretary

**VILLAGE OF DOWNERS GROVE:**

\_\_\_\_\_  
Authorized Signature

ATTEST:

\_\_\_\_\_  
Title

\_\_\_\_\_  
Signature of Village Clerk

\_\_\_\_\_  
Date

\_\_\_\_\_  
Date

In compliance with the specifications, the above-signed offers and agrees, if this Proposal is accepted within 90 calendar days from the date of opening, to furnish any or all of the services upon which prices are quoted, at the price set opposite each item, delivered at the designated point within the time specified above.

**CAMPAIGN DISCLOSURE CERTIFICATE**

Any contractor, proposer, bidder or vendor who responds by submitting a bid or proposal to the Village of Downers Grove shall be required to submit with its bid submission, an executed Campaign Disclosure Certificate, attached hereto.

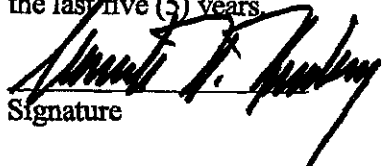
The Campaign Disclosure Certificate is required pursuant to the Village of Downers Grove Council Policy on Ethical Standards and is applicable to those campaign contributions made to any member of the Village Council.

Said Campaign Disclosure Certificate requires any individual or entity bidding to disclose campaign contributions, as defined in Section 9-1.4 of the Election Code (10 ILCS 5/9-1.4), made to current members of the Village Council within the five (5) year period preceding the date of the bid or proposal release.

By signing the bid documents, contractor/proposer/bidder/vendor agrees to refrain from making any campaign contributions as defined in Section 9-1.4 of the Election Code (10 ILCS 5/9-1.4) to any Village Council member and any challengers seeking to serve as a member of the Downers Grove Village Council.

Under penalty of perjury, I declare:

Bidder/vendor has not contributed to any elected Village position within the last five (5) years.

  
Signature

Claude H. Hurley, President  
Print Name

Bidder/vendor has contributed to an elected Village position within the last five (5) years.

Print the following information:

Name of Contributor: \_\_\_\_\_  
(company or individual)

To whom contribution was made: \_\_\_\_\_

Year contribution made: \_\_\_\_\_ Amount: \$ \_\_\_\_\_

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Print Name

**EXHIBIT A**

**DEPARTMENT OF PUBLIC WORKS  
2010 GEOTECHNICAL & MATERIAL TESTING SERVICES  
GMT-2010**

<u>DESCRIPTION</u>	<u>UNIT</u>	<u>UNIT PRICE</u>
<b>PROFESSIONAL PERSONNEL SERVICE</b>		
CHIEF ENGINEER	HOUR	\$127.50
PRICIPAL ENGINEER (CONSULTANT)	HOUR	127.50
SENIOR ENGINEER	HOUR	97.50
PROJECT ENGINEER	HOUR	82.50
STAFF ENGINEER	HOUR	72.50
<b>TECHNICAL AND SUPPORT PROFESSIONAL SERVICES</b>		
LAB/ENGINEER TECHNICIAN	HOUR	72.50
FIELD TECHNICIAN	HOUR	72.50
DRAFTSMAN/CADD OPERATOR	HOUR	75.00
SECRETARY	HOUR	N/C
CLERK	HOUR	N/C

<b>DRILLING, SAMPLING, AND CORING</b>		
MOBILIZATION/DEMObILIZATION OF TRUCK MOUNTED ROTARY RIG, TOOLS AND TWO MAN DRILLING CREW PER RIG	EACH	500.00
CONTINUOUS FLIGHT AUGER BORING	Foot HOUR	20.00 295.00
HOLLOW FLIGHT AUGER BORING, SOLID STEM AUGER OR ROLLER BIT WITH SPLIT SPOON SAMPLING AT 2.5 FOOT INTERVALS TO TEN FEET, FIVE FEET THEREAFTER		
0-50 FOOT DEPTH	HOUR FOOT	295.00 23.50
50-100 FOOT DEPTH	HOUR FOOT	295.00 26.50
SHELBY TUBE SAMPLES, 2" O.D.	EACH	25.00
SHELBY TUBE SAMPLES, 3" O.D.	EACH	35.00
BAG SAMPLES AT SPECIFIED DEPTH, FOR PROCTOR TEST	EACH	50.00
ROCK CORING	HOUR	340.00

**EXHIBIT A**

**DEPARTMENT OF PUBLIC WORKS  
2010 GEOTECHNICAL & MATERIAL TESTING SERVICES  
GMT-2010**

<u>DESCRIPTION</u>	<u>UNIT</u>	<u>UNIT PRICE</u>
<b>LABORATORY TESTING (SOILS)</b>		
VISUAL CLASSIFICATION, INCLUDING POCKET PENETROMETER READINGS	EACH	\$ 3.00
MOISTURE CONTENT DETERMINATION (ASTM D 2216)	TEST	45.00
SIEVE ANALYSIS, DRY, 7 SIEVES	TEST	45.00
SIEVE ANALYSIS, WASHED, 7 SIEVES	TEST	45.00
COMBINED HYDROMETER AND SIEVE ANALYSIS (ASTM D 422)	TEST	65.00
ATTERBERG LIMITS, LL, PL (ASTM D 423, 424)	TEST	65.00
SPECIFIC GRAVITY DETERMINATION (ASTM D 854)	TEST	30.00
NUCLEAR MOISTURE/DENSITY GAUGE	DAY	N/C
STANDARD PROCTOR COMPACTION (ASTM D 698)	TEST	135.00
MODIFIED PROCTOR COMPACTION (ASTM D 1557)	TEST	145.00
ILLINOIS BEARING RATIO TEST, INCLUDING PROCTOR DENSITY	TEST	450.00
DENSITY DETERMINATION INCLUDING MOISTURE CONTENT TEST	TEST	115.00

**EXHIBIT A**

**DEPARTMENT OF PUBLIC WORKS  
2010 GEOTECHNICAL & MATERIAL TESTING SERVICES  
GMT-2010**

<u>DESCRIPTION</u>	<u>UNIT</u>	<u>UNIT PRICE</u>
<b>LABORATORY TESTING (CONCRETE AND ASPHALT)</b>		
CONCRETE MIX DESIGN, PER MIX	EACH	\$250.00
CONCRETE AGGREGATE TEST:		
FINE AGGREGATE SIEVE ANALYSIS	TEST	45.00
COARSE AGGREGATE SIEVE ANALYSIS	TEST	45.00
FINE AGGREGATE - SPECIFIC GRAVITY AND ABSORPTION	TEST	50.00
COARSE AGGREGATE - SPECIFIC GRAVITY AND ABSORPTION	TEST	50.00
<del>COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS</del>	<del>TEST</del>	<del>125.00</del>
EXTRACTION FOR ASPHALT CONTENT	TEST	65.00
MARSHALL STABILITY & FLOW (ASTM D6927)	TEST	115.00
BULK SPECIFIC GRAVITY (ASTM D2726)	TEST	40.00
MAXIMUM SPECIFIC GRAVITY, BIG D (ASTM D2041)	TEST	125.00
<del>Most frequently utilized services</del>		

See attached HURLEY Fee Schedule of January 1, 2010 for unit fees applicable to other field operations, laboratory tests and engineering services.



**CLAUDE H. HURLEY COMPANY**

Consulting Geotechnical Engineers

Corporate Commerce Center of Elmhurst  
650 West Grand Avenue - Suite 107  
Elmhurst, Illinois 60126  
Phone (630)279-7762  
Fax (630)279-7795**FEE SCHEDULE**

January 1, 2010

**Engineering Services**

The following unit fees include all geotechnical engineering, construction materials engineering and consultation services:

<u>Item</u>	<u>Unit Fee</u>
<b>Professional and Technical Personnel</b>	
Engineering Technician I/II, Per Hour	\$ 40.00
Engineering Technician III, Per Hour	45.00
Engineering Technician IV, Per Hour	47.50
Engineering Technician V, Per Hour	52.50
Engineering Technician VI, Per Hour	62.50
Engineering Technician VII, Per Hour	72.50
Engineering Technician VIII, Per Hour	82.50
Engineering Technician IX, Per Hour	92.50
Engineering Technician X, Per Hour	102.50
Draftsman I/II, Per Hour	30.00
Draftsman III, Per Hour	35.00
Draftsman IV, Per Hour	45.00
Draftsman V, Per Hour	50.00
Draftsman VI, Per Hour	55.00
Draftsman VII, Per Hour	60.00
Draftsman VIII, Per Hour	65.00
Draftsman IX, Per Hour	75.00
Draftsman X, Per Hour	85.00
Engineer I/II, Per Hour	47.50
Engineer III, Per Hour	52.50
Engineer IV, Per Hour	57.50
Engineer V, Per Hour	62.50
Engineer VI, Per Hour	67.50
Engineer VII, Per Hour	72.50
Engineer VIII, Per Hour	82.50
Engineer IX, Per Hour	97.50
Engineer X, Per Hour	127.50
Engineer XI, Per Hour	157.50
Engineer XIII, Per Hour,	187.50
Engineer XV, Per Hour	217.50
<b>Support Personnel</b>	
Clerical I, Per Hour	20.00
Clerical II, Per Hour	25.00
Clerical III, Per Hour	30.00
Clerical IV, Per Hour	35.00
Secretary I, Per Hour	30.00
Secretary II, Per Hour	35.00
Secretary III, Per Hour	40.00
Secretary IV, Per Hour	45.00
Secretary VI, Per Hour	55.00
Secretary VII, Per Hour	65.00

**CLAUDE H. HURLEY COMPANY**

Consulting Geotechnical Engineers

Corporate Commerce Center of Elmhurst  
650 West Grand Avenue - Suite 107  
Elmhurst, Illinois 60128  
Phone (630)279-7782  
Fax (630)279-7795**Field Operations**

Page 2

The following unit fees include all mobilization-demobilization charges and fees for subsurface exploration and other field services:

<u>Item</u>	<u>Unit Fee</u>
Mobilization and Demobilization of Personnel and Equipment	
Light Duty Vehicle, Per Mile	\$ 0.45
Motorized Core Rig, Each	300.00
Conventional Truck Rig	
Local, Each	500.00
Long Distance, Per Mile	3.50
All-Terrain Vehicle, Each	1,000.00
Skid Rig, Each	450.00
Bulldozer or Endloader, Each	450.00
Backhoe, Each	400.00
Special Equipment for Difficult Access, Standby, Excess Moving Time and Hourly Exploration	
Conventional Truck Rig, Per Hour	295.00
All-Terrain Vehicle, Per Hour	295.00
Skid Rig, Per Hour	295.00
Bulldozer or Endloader, Per Hour	165.00
Backhoe, Per Hour	165.00
Rental of Other Special Equipment, Each	Cost + 15%
Acquisition of Required Permits and Traffic Control	
Engineering Technician VII, Per Hour	72.50
Railroad and Other Flagman, Each	Cost + 15%
Signs and Equipment, Each	Cost + 15%
Permits, Each	Cost + 15%
Soil Drilling, no sampling, Per Foot	20.00
Soil Drilling, including disturbed soil sampling from auger flights, Per Foot	20.00
Soil Drilling, including standard penetration tests at 2.5 ft interval and standard split-barrel and thin-wall tube soil sampling.	
1. Less than 60 bpf and less than 50 ft, Per Foot	23.50
2. Less than 60 bpf and 50 ft or greater, Per Foot	26.50
3. 60 bpf or greater and less than 50 ft, Per Foot	25.50
4. 60 bpf or greater and 50 ft or greater, Per Foot	28.50
5. Continuous sampling, Add Per Foot	4.00
6. Extra samples, Each	23.50
7. Thin-wall tube sample, including tube, preparation and seal	
a) 2-in. dia, Each	25.00
b) 3-in. dia, Each	35.00
Rock Core Set-up, Each	295.00
Setting Casing for Difficult Ground Drilling, Slurry Drilling, Rock Drilling and Rock Coring, Per Foot	6.50
Borehole Backfill	
a. By Grouting, Per Foot	6.00
b. By Bentonite Chip Placement, Per Foot	6.00
Rock Drilling, no sampling, Per Foot	31.75
Rock Coring, including AX, BX and NX-size core, Per Foot	41.75

**CLAUDE H. HURLEY COMPANY**

Consulting Geotechnical Engineers

Corporate Commerce Center of Elmhurst  
 660 West Grand Avenue - Suite 107  
 Elmhurst, Illinois 60126  
 Phone (630)279-7762  
 Fax (630)279-7796

**Field Operations (continued)****Page 3**

Pavement Coring, including 4-in. dia AC, PCC and SAM core, hand auger probe of subgrade soil to depth 2.0 ft and auger sample, Per Hour	\$210.00
<b>Weld Inspection and Testing</b>	
Visual and Dye Penetrant Methods, Per Hour	77.50
Magnetic Particle Methods, Per Hour	77.50
Ultrasonic Methods, Per Hour	102.50

**Laboratory Tests**

The following are unit fees for off-site laboratory tests:

	<u>Item</u>	<u>Unit Fee</u>
Soil:	Visual Classification and Natural Moisture Content Test, Per Test	4.00
	Grain Size Determination, including washed sieve analysis, Per Test	45.00
	Grain Size Determination, including hydrometer and fine sieve analyses, Per Test	65.00
	Atterberg Limit Test	
	Liquid Limit and Plastic Limit, Per Test	65.00
	Shrinkage Limit, Per Test	75.00
	Specific Gravity Test, Per Test	30.00
	Loss-On-Ignition Test, Per Test	20.00
	Total Organic Matter Test, Per Test	20.00
	pH Determination, Per Test	20.00
	Soil Resistivity Determination, Per Test	30.00
	Determination of Soil Oxidation Reduction Potential, Per Test	25.00
	Determination of Presence of Sulfides in Soil, Per Test	25.00
	Determination of Soluble Concentration of Chloride and Sulfate in Soil, Per Test	100.00
	Dry Unit Weight Test, Per Test	7.50
	Hand Penetrometer Reading, Per Test	1.50
	Unconfined Compression Test	
	Uncontrolled Strain, Per Test	6.75
	Controlled Strain, Per Test	45.00
	Triaxial Compression Test	
	Q-Type	
	One Specimen, Per Test	55.00
	Three Specimens, Per Test	150.00
	R-Type	
	One Specimen	
	With pore pressure measurement, Per Test	90.00
	Without pore pressure measurement, Per Test	75.00
Three Specimens		
With pore pressure measurement, Per Test	255.00	
Without pore pressure measurement, Per Test	190.00	
S-Type		
One Specimen, Per Test	90.00	
Three Specimens, Per Test	255.00	
Back-Pressure Saturation, Per Specimen	50.00	

**Laboratory Tests (continued)**

	One-Dimensional Consolidation Test, including initial load, recycle load, and rebound, Per Test	\$600.00
	Illinois Bearing Ratio Test, Per Test	450.00
	Moisture-Density Relationship Test	
	Per AASHTO T-99 or ASTM D-698, Per Test	135.00
	Per AASHTO T-180 or ASTM D-1557, Per Test	145.00
	Constant Head Permeability Test, Per Test	150.00
	Lime Percent Per Immediate IBR Test, Per Test	800.00
<b>Rock:</b>	Natural Moisture Content Test, Per Test	4.00
	Tensile Strength Test-Brazilian Method, Per Test	50.00
	Unconfined Compressive Strength Test, Per Test	35.00
	Unconfined Compressive Strength Test, including determination of Young's Modulus and Poisson's Ratio, Per Test	150.00
	Horizontal or Vertical Permeability Test, Per Test	150.00
	Specific Gravity Determination, Per Test	30.00
<b>Concrete:</b>	Concrete Mix Design Verification, Per Mix	250.00
	Cement Test	
	Chemical requirements, Per Test	110.00
	Physical requirements, Per Test	110.00
	Fineness Air Permeability	
	Normal Consistency	
	Time of Setting	
	Specific Gravity	
	Compressive Strength	
	False Set	
	Aggregate Tests	
	Sieve Analysis	
	Fine Aggregate, Per Test	45.00
	Coarse Aggregate, Per Test	45.00
	Organic Impurities, Per Test	25.00
	Unit Weight, Per Test	20.00
	Voids in Aggregate, Per Test	5.00
	Material Finer than No. 200 Sieve, Per Test	25.00
	Specific Gravity and Absorption Determination	
	Fine Aggregate, Per Test	50.00
	Coarse Aggregate, Per Test	50.00
	Sodium Sulfate Soundness Test, including 5 cycles, Per Test	250.00
	PCC Cylinder Compression Test	
	Set of Two Cylinders, Per Cylinder	24.00
	Set of Three Cylinders, Per Cylinder	16.00
	Set of Four or More Cylinders, Per Cylinder	12.00
	Mortar Cube Compression Test, Per Test	16.00
	Analysis of PCC Core, including preparation of specimen thickness measurement and compression test, Per Test	40.00

**CLAUDE H. HURLEY COMPANY**

Consulting Geotechnical Engineers

Corporate Commerce Center of Elmhurst  
660 West Grand Avenue - Suite 107  
Elmhurst, Illinois 60126  
Phone (630)278-7762  
Fax (630)278-7796

<b>Laboratory Tests (continued)</b>		<b>Page 5</b>	
<b>Asphalt:</b>	Liquid Asphalt Cement Penetration Value, Per Test	\$ 25.00	
	Mix Design, including Marshall stability test, Per Mix	200.00	
	Analysis of Field or Plant Sample, including Marshall stability test, reflux or ignition extraction test, and determination of theoretical density, Per Test	275.00	
	Analysis of Field or Plant Sample, including Marshall stability test and reflux or ignition extraction test, Per Test	165.00	
	Analysis of Field or Plant Sample, including Marshall stability test, Per Test	115.00	
	Analysis of Field or Plant Sample, including preparation and determination of density by SHRP gyratory compactor, reflux or ignition extraction test, and determination of theoretical density, Per Test	375.00	
	Analysis of Field or Plant Sample, including preparation and determination of density by SHRP gyratory compactor, and reflux or ignition extraction test, Per Test	325.00	
	Analysis of Field or Plant Sample, including preparation and determination of density by SHRP gyratory compactor, Per Test	275.00	
	Analysis of Field or Plant Sample, including reflux or ignition extraction test, Per Test	65.00	
	Analysis of Field or Plant Sample, including determination of theoretical density, Per Test	125.00	
	Analysis of AC Core, including recovery of bitumen and aggregate from composite of cores; gradation of aggregate; and penetration value, ductility, and ash content of bitumen, Per Test	300.00	
	Analysis of AC Core, including extraction test on composite of cores, Per Test	65.00	
	Analysis of AC Core, including preparation of specimen, density determination, and thickness measurement, Per Test	40.00	
	<b>SAM:</b>	PAM or CAM Specimen Preparation and Testing, including density determination and unconfined compression test. Per Specimen, Per Test	75.00
		Set of Three Specimens, Per Test	225.00
		Analysis of PAM or CAM Core, including preparation of specimen, thickness measurement, density determination and unconfined compression test, Per Test	100.00
Analysis of PAM or CAM Core, including preparation of specimen and unconfined compression test, Per Test		50.00	
<b>Steel:</b>	Tensile Strength, including yield elongation and variation in dimensions and weight No. 3 through No. 7 Bar, Per Test	45.00	
	No. 8 through No. 11 Bar, Per Test	65.00	
	Bend Strength including strength and variation in dimensions and weight No. 3 through No. 7 Bar, Per Test	35.00	
	No. 8 through No. 11 Bar, Per Test	50.00	
	Certification of Welders, including monitoring of welding certification report and certification card, Per Hour	57.50	

**CLAUDE H. HURLEY COMPANY**

Consulting Geotechnical Engineers

Corporate Commerce Center of Elmhurst  
660 West Grand Avenue - Suite 107  
Elmhurst, Illinois 60120  
Phone (830)279-7762  
Fax (830)279-7795

**Laboratory Tests (continued)**

**Page 6**

Test of Welded Coupons, including preparation of coupon for test and bend test, Per Test	\$50.00
Test of Welded Coupons, including preparation of coupon for test and tensile test, Per Test	60.00
Test of Welded Pipe Coupons, including preparation of coupon for test and tensile or bend test, Per Test	60.00
Test of Welded Coupons, including preparation of coupon for test and radiographic test	
Per Coupon, Per Test	75.00
Per Set of Three Coupons, Per Test	200.00
Spray Insulation	
Thickness and Density Measurement by Dimensional Analysis, Per Test	75.00
Density Determination by Displacement Method, Per Test	50.00

**Special Tests: On Individual Contract Basis for Specific Scope of Work**

The total amount of  
this contract shall not  
exceed \$152,500

