



**AGENDA ITEM # 9**

**AGENDA ITEM EXECUTIVE SUMMARY  
Committee of the Whole Meeting  
January 8, 2018**

**Item Title:**           **Engineering Design and Construction Services for the Kennedy Lift Station Improvement Project**

**Staff Contact:**       Victor C. Ramirez, Public Works Director

**COMMITTEE OF THE WHOLE ACTION**

**Consider a staff recommendation for authorizing a Work Order for Engineering Services for the Kennedy Lift Station Project.**

**Executive Summary:**

On September 25, 2017, the Committee of the Whole discussed the Kennedy Lift Station Project and consideration to approve an agreement for Engineering Design and Construction Services for the Kennedy Lift Station Improvements with Trotter and Associates, Inc. in the amount of \$218,843.00. The Committee discussed the project scope and options for locating the new lift station as well as current easements for the existing lift station. The proposed location for the new lift station is on Outlot B of Unit Three in the Trails Subdivision. There was not conclusive information at the time to determine if the Village had easement rights to build the lift station in this location. Therefore, the approval of the Engineering Services Agreement was delayed until the easement rights were resolved.

Previously, Staff had met and discussed the general parameters of the project with The Trails representatives. Subsequently, the Village found documentation that did in fact provide easement rights to utilize this property for the intended purpose. However, a Special Use permit would be required. This was approved by the Planning and Zoning Commission on December 5, 2017 and consideration by the Committee of the Whole on January 8, 2018.

This project is one of the six projects approved in the loan application and is referenced as L175422. It is part of the overall \$17,348,000 loan application and as part of the approved IEPA Loan Facility Plan. The construction costs are estimated at \$1,810,905 for this project.

**Implications:**

**Is this item budgeted?** Yes. Funds are budgeted in the Water and Sewer Capital Improvements Projects Fund account #53918292-71110-650 and financed through the IEPA low interest state revolving loan program.

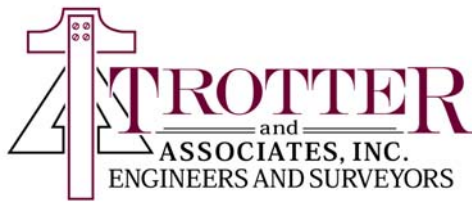
Engineering costs breakdown:

IEPA Loans	\$ 8,380.00
Preliminary Design	\$74,040.00
Final Design	\$54,475.00
Bidding	\$10,191.00
Construction Observation	<u>\$71,757.00</u>
Total	\$218,843.00

**Any other implications to be considered?** None.

**Attachments:**

Work Order with Trotter and Associates, Inc.



**EXHIBIT A**  
**TAI WORK ORDER NUMBER ROS2017-02**  
**REVISED DECEMBER 22, 2017**

**Project Name:** Kennedy Lift Station Conversion to Submersible Lift Station and Flow Meter Installation

**Facilities Master Plan Projects:** SS6 and SS7.

**TAI Project No.** ROS2017-02

This Work Order is attached to, made part of and incorporated by reference into the Agreement between CLIENT and ENGINEER for modification of scope and compensation for the PROJECT. All other terms and conditions of the original Agreement between CLIENT and ENGINEER are unchanged by this Work Order and shall remain in full force and effect and shall govern the obligations of both CLIENT and ENGINEER, including obligations created by this Work Order.

**PROJECT DESCRIPTION**

The Facilities Master Plan included an evaluation of the Kennedy Lift Station, located at 795 Plum Grove Road. Built in 1971, this can-type lift station has reached the end of its useful life and is in poor condition. The steel can structure shows signs of corrosion, and the dry pit has flooded twice due to leaky pump seals. The 2015 facility plan identified the need to locate and remove Infiltration and Inflow (I/I) within the service area and recommended that the existing lift station be replaced within the 5-year Capital Improvements Plan.

The Kennedy lift station is comprised of a 6-foot diameter wet well and an 8-foot diameter dry well with two (2) 40 HP Smith and Loveless Dry Pit Centrifugal Solids Handling Pumps. The pumps alternate in a duty/standby arrangement. The current wet well has a depth of 29.1 feet. The 10" diameter ductile iron force main has a length of 6,301 feet and discharges directly to the Metropolitan Water Reclamation District of Greater Chicago's (MWRDGC) system. The lift station receives flow from multiple locations through 8", 15" and 18" sewer lines.

The pump station's tributary area serves an estimated population equivalent (PE) of 5,000 PE based on Village GIS data. At 5,000 PE, the station should be designed for a peaking factor of 3.24.

A properly sized pump station of this magnitude should not operate more than about 6 to 8 hours per day. Based on pump run time records provided by the Village for 7/1/2001 – 4/30/2008 and 6/1/2015 – 11/30/2016, the pumps ran for an average of 7.2 hours per day.

The maximum flow this pump station has experienced based on the provided run times exceeds the station's design capacity and resulted from a total pump run time of 45.2 hours in 1 day (clearly, two pumps ran most of the day).

**CONCEPTUAL DESIGN WORK COMPLETED**

Draw down tests were performed at Kennedy Lift Station on July 11<sup>th</sup>, 2017 in order to determine the actual capacity of the currently installed pumping units in their current state and under real-world conditions.

Based on the results of the draw down test, neither pump was capable of pumping the original design condition of 1,400 gpm. This can be caused by a number of things: worn impellers; faulty check valves; plugged pipelines; and/or increased friction characteristics of an aging force main. The average observed and recorded pumping rate for Pumps 1 and 2 during the draw down tests were 901 gpm and 1,085 gpm, respectively. With both pumps running, the observed flow was approximately 1,272 gpm.

Based on the pump run times supplied by the Village and using the flows from the draw down testing, the total pumped flow for the maximum day approached 2.0 mgd.

Information compiled during the conceptual design phase allows the pumping capacity of the lifting station to be calculated, and will be based upon the following:

- Average Daily Flow: 432,000 gpd (300 gpm)
- Average Wet Weather Daily Flow: 532,200 gpd (370 gpm)
- Peak Flow: 1,930,000 gpd (1,340 gpm)

Based on including a factor of safety for a large, unexpected rain event, it is recommended that with two (2) pumps operating the peak design flow from the pumps be design at 1,500 gpm.

The design flows will be confirmed during the design process that the system can meet the requirements set forth in the 10 States Standards, IEPA Regulations and the Illinois Administrative Code at both the measured 300 gpm and calculated 347 gpm average flow rates.

Three (3) pumps should be installed, each rated for 50% of the peak flow (750 gpm per pump) when both pumps are operating. With two pumps operating, the peak flow could then be sent through the force main to the MWRDGC plant.

A 10 foot diameter, pre-cast concrete wet well is proposed, which offers 587 gallons of storage volume per vertical foot of wet well depth. The wet well must be deep enough to provide sufficient storage to limit the number of motor starts to acceptable levels, while not being so large as to result in excessive detention times in the wet well. Maximum liquid level in the wet well is based upon the invert elevation of the influent sewer.

Additional details and calculations on the design and sizing of the proposed system can be found in the previously provided Conceptual Design memo.

**PROJECT UNDERSTANDING**

The Village has been researching easement records to identify space available for construction of the proposed lift station. Based on the records to date it appears that adequate space for construction of a new, 10 ft diameter, approximately 30 ft deep wet well in the existing right-of-way is not practical. Therefore, it is proposed that the new lift station be built just to the south and west of the existing lift station, in an easement arranged with the owner of The Trails apartments.

A standby generator with an automatic transfer switch shall also be installed at the site to allow for uninterrupted operation of the lift station.

The basic design concept of this project includes, but is not limited to the following elements:

- Construction of the new structures adjacent to the existing pump station, including 10 ft diameter pre-cast wet well, building to house the controls, valves, flow meters, bypass connections for portable pump and generator.
- The pumping system will include three (3) 750 gpm submersible pumps operated via variable frequency drives.
- Level control will be monitored by a submersible pressure transducer with back-up floats for operation as well as alarms.
- The electrical system will be housed in suitable NEMA 4X enclosures and include pump PLC control, connection to existing SCADA system and pump starters/variable frequency drives.
- Connection of the existing well to the proposed wet well during startup
- Removal of the existing dry well
- Installation of a removable jib crane to aid in pump maintenance
- Installation of the standby generator.

The Village is intending to fund these proposed improvements through the Illinois EPA Low Interest Loan Program.

TAI will work with Village staff to select materials, develop layout, and refine cost estimates. The conceptual design cost estimate is shown below:

SUMMARY	
GENERAL CONDITIONS	\$33,000
DEMOLITION OF EXISTING SITEWORK	\$54,546
NEW WET WELL	\$348,214
PRE-FABRICATED BUILDING	\$317,446
ELECTRICAL & CONTROLS	\$500,000
CASH ALLOWANCES	\$94,000
<b>CONSTRUCTION SUB-TOTAL</b>	<b>\$1,347,205</b>
BONDS & INSURANCE	\$27,000
CONTRACTOR'S OVERHEAD & PROFIT	\$134,800
CONTINGENCY @ 20%	\$301,900
<b>ESTIMATED CONSTRUCTION COST</b>	<b>\$1,810,905</b>

At the conclusion of preliminary design, TAI will confirm with Staff that the proposed solution meets the Village's long-term needs and proceed with final design and permitting of the proposed improvements.

## **PROJECT SCOPE**

*Our services will consist of customary civil engineering and surveying services and related engineering services incidental thereto, described as follows;*

### **A. IEPA Low Interest Loan Application**

- 1) Assist the Village with completion of IEPA Low Interest Loan Application and Financial Application Checklist in accordance with 35 IL Adm. Code Section 622.430. Including,
  - a) Prepare and Submit Low Interest Loan Pre-Application
  - b) Develop and submit planning documents as required by the IEPA.
  - c) Complete necessary documents for the IEPA for Village's approval and signatures.
  - d) Act as liaison between the IEPA Project Manager and the Village to address the IEPA Low Interest Loan package review comments and correspondence.
  - e) Work with the Village to develop the required ordinances/resolutions required for the Low Interest Loan.
  - f) Incorporate IEPA required contract documents into the project specifications.

### **B. Preliminary Design Phase**

- 1) Hold a project kick-off meeting with Village Staff to establish project goals and schedule.
- 2) Hold bi-weekly project meetings with Village Staff to determine preferred manufactures, types and quantities of valves and meters, piping material, building layout and architectural details. During these meetings design layout details for the project will also be determined.
- 3) Develop base files depicting demolition required as well as proposed site and equipment layout.
- 4) Conduct as many site visits as necessary to confirm dimensions and site constraints.
- 5) Make necessary field surveys for design purposes. This includes running the pumps in hand to allow for the wet well and all connected manholes to drain, and pipe elevations to be taken. Further, if possible, the existing force main should be surveyed to confirm pipe elevations.
- 6) Review existing Village documentation that may be appropriate to the project. This includes as built information for the existing pump station and force main, including profile and discharge elevations.
- 7) Review existing MWRDGC permits for the lift station and service area.
- 8) Perform hydraulic calculations for pump selection.

- 9) Obtain a soil boring on the site for the purpose of structural design and quantifying dewatering requirements.
- 10) Obtain utility locations, floodplain and floodway information on the existing site and determine site limitations.
- 11) Conduct a topographic survey of the site to determine property boundaries for design and permitting.
- 12) Develop basis of design for pump/system curves for sizing and selection.
- 13) Work with the Village's Planning and Zoning Department with regards to any easements that may be required.
- 14) Coordinate with Village and pump manufacturers to select new pumps.
- 15) Advise Village if additional reports, data, information, or testing services are necessary and assist Village in obtaining such reports, data, information, or services.
- 16) Based on the information contained in the Preliminary Design Phase documents, submit a revised opinion of probable Construction Cost and any adjustments to Total Project Costs known to Engineer.
- 17) Furnish the Preliminary Design Phase 50% documents to Village for their review. Documents shall consist of engineering calculations, preliminary drawings, and written descriptions of the Project. These shall include layout of the proposed pump station wet well, building, process design for pumps, piping, valves, electrical, control systems and backup generator.
- 18) Hold a preliminary design review meeting to address the Village's review comments and concerns.

*C. During the Final Design Phase*

- 1) Based on the approved Preliminary Design Phase, prepare 95% Engineering Plans and Specifications to show the scope, extent and character of the work. Include the following but is not limited to these drawings.
  - a) General Construction Details and Notes
  - b) Site Civil Drawings showing underground utilities, process piping, site grading and landscaping as applicable.
  - c) Demolition drawings showing existing structures and utilities to be removed as applicable.
  - d) Architectural drawings including layout and elevation views, if applicable.
  - e) Structural drawings including layout and section views.
  - f) Mechanical Drawings including layouts and schedules.
  - g) Process drawings including the equipment layout, valves and process piping.
  - h) Electrical Drawings depicting power distribution requirements within the proposed improvements.

- i) Instrumentation drawings depicting the scope and extent of the proposed control system.
  - j) Project specifications with all process equipment selected in accordance with the 32 / 64 Division CSI Format.
  - k) Design of control and SCADA applications / improvements associated with the project.
  - l) Develop other Documents necessary to bid the project.
- 2) Submit final engineering plans and specifications to MWRDGC and IEPA to obtain the Illinois EPA construct and operate permit.
  - 3) Prepare an opinion of probable cost, based on the Final Engineering Plans. Update the opinion of probable cost based on the revised plans and specifications.
  - 4) Provide 95% complete plans to the Village and effected agencies for review and approval. Provide revised plans and specifications to the Village for review and approval.
  - 5) Make minor revisions to the plans to incorporate changes required by reviewing agencies. Revise plans in accordance with additional comments.
  - 6) Acquire Permits as necessary.
  - 7) Complete 100% drawings to satisfaction of Village and appropriate permitting bodies.
- D. Bidding or Negotiating Phase
- 1) Assist the Village with advertising the project for bid.
  - 2) Attend a pre-bid meeting with the Village and prospective bidders
  - 3) Respond to questions about bid documents. Issue addenda as appropriate to clarify, correct, or change the Bidding Documents
  - 4) Attend the bid opening, prepare bid tabulation, and assist the Village in reviewing the bids, participate in any negotiations or clarification discussion and awarding contracts.
  - 5) Furnish and supply drawings and project specification copies as required.
- D. Construction Engineering Services
- 1) Upon successful completion of Bidding, and upon written authorization from OWNER, ENGINEER shall:
    - a) General Administration of Construction Contract. Consult with OWNER and act as OWNER's representative as provided in the General Conditions. The extent and limitations of the duties, responsibilities and authority of ENGINEER as assigned in said General Conditions shall not be modified, except as ENGINEER may otherwise agree in writing. All of OWNER's instructions to Contractor will be issued through ENGINEER, who shall have authority to act on behalf of OWNER in dealings with Contractor to the extent provided in this Agreement and said General Conditions except as otherwise provided in writing.



- i. Incorporate all addenda, clarifications, and other items addressed during Bidding into Drawings and Specifications, and issue Contract Documents "For Construction".
  - ii. Construction Engineering Administration Services, including consulting with the Village and acting as the Village's representative during execution of construction, providing weekly reports to Village staff on status of construction. Construction engineering administration services are anticipated to be part-time (two (2) hours per week) for forty-two (42) weeks. If additional services are required and authorized by the Village Administration, Trotter and Associates shall be compensated for the additional services.
- i. Meetings
    - Pre-Construction Conference: Organize a Pre-Construction Conference prior to commencement of Work at the Site, including review of bonds and insurance, distribution of Contract Documents, communications procedures between Owner, Contractor and Engineer, coordination with Building Department and other Village Departments, protection of existing structures, coordination of temporary facilities, weekly construction meetings, staking and layout, review of project schedule, procedures for pay applications, submittals, RFIs, CMRs, Change Orders, shut-down procedures, emergency access, operational access, permitting, special inspections, SWPPP, working hours, salvaged equipment procedures, O&M manuals, training, and record drawings. Develop and distribute minutes to document discussions, decisions, and delineation of responsibilities.
    - Construction Meetings: Facilitate meetings onsite to coordinate upcoming construction activities, updated construction schedule, shut-downs, pay requests, submittals, RFIs, CMRs, Change Orders, start-up and training. Develop and distribute minutes to document discussions, decisions, and delineation of responsibilities.
  - ii. Visits to Site and Observation of Construction. In connection with observations of Contractor's work in progress while it is in progress:
    - Resident Project Representative (RPR). Provide the services of an RPR at the Site to assist the ENGINEER and to provide more extensive observation of Contractor's work. Duties, responsibilities, and authority of the RPR are as set forth in Exhibit B. The furnishing of such RPR's services will not extend ENGINEER's responsibilities or authority beyond the specific limits set forth elsewhere in this Agreement. RPR services are anticipated to be part-time (twelve (12) hours per week) for twelve (12) weeks. If additional field services are required and authorized by the Village Administration, Trotter and Associates shall be compensated for the additional services.
    - Make visits to the Site at intervals appropriate to the various stages of construction, as ENGINEER deems necessary, in order to observe as an

experienced and qualified design professional the progress and quality of the Work. Such visits and observations by ENGINEER, and the Resident Project Representative, if any, are not intended to be exhaustive or to extend to every aspect of Contractor's work in progress or to involve detailed inspections of Contractor's work in progress beyond the responsibilities specifically assigned to ENGINEER in this Agreement and the Contract Documents, but rather are to be limited to spot checking, selective sampling, and similar methods of general observation of the Work based on ENGINEER's exercise of professional judgment as assisted by the Resident Project Representative, if any. Based on information obtained during such visits and such observations, ENGINEER will determine in general if Contractor's work is proceeding in accordance with the Contract Documents, and ENGINEER shall keep OWNER informed of the progress of the Work.

- The purpose of ENGINEER's visits to, and representation by the Resident Project Representative, if any, at the Site, will be to enable ENGINEER to better carry out the duties and responsibilities assigned to and undertaken by ENGINEER during the Construction Phase, and, in addition, by the exercise of ENGINEER's efforts as an experienced and qualified design professional, to provide for OWNER a greater degree of confidence that the completed Work will conform in general to the Contract Documents and that the integrity of the design concept of the completed Project as a functioning whole as indicated in the Contract Documents has been implemented and preserved by Contractor. ENGINEER shall not, during such visits or as a result of such observations of Contractor's work in progress, supervise, direct, or have control over Contractor's work, nor shall ENGINEER have authority over or responsibility for the means, methods, techniques, sequences, or procedures of construction selected by Contractor, for safety precautions and programs incident to Contractor's work, or for any failure of Contractor to comply with Laws and Regulations applicable to Contractor's furnishing and performing the Work. Accordingly, ENGINEER neither guarantees the performance of any Contractor nor assumes responsibility for any Contractor's failure to furnish and perform its work in accordance with the Contract Documents.
- iii. Shop Drawings and Samples. Review and approve or take other appropriate action in respect to Shop Drawings and Samples and other data which Contractor is required to submit, but only for conformance with the information given in the Contract Documents and compatibility with the design concept of the completed Project as a functioning whole as indicated in the Contract Documents. Such reviews and approvals or other action will not extend to means, methods, techniques, sequences or procedures of construction or to safety precautions and programs

incident thereto. ENGINEER has an obligation to meet any Contractor's submittal schedule that has earlier been acceptable to ENGINEER.

- iv. Substitutes and "or-equal." Evaluate and determine the acceptability of substitute or "or-equal" materials and equipment proposed by Contractor.
- v. Clarifications and Interpretations; Field Orders. Issue necessary clarifications and interpretations of the Contract Documents as appropriate to the orderly completion of Contractor's work. Such clarifications and interpretations will be consistent with the intent of and reasonably inferable from the Contract Documents. ENGINEER may issue Field Orders authorizing minor variations from the requirements of the Contract Documents.
- vi. Inspections and Tests. Require such special inspections or tests of Contractor's work as deemed reasonably necessary, and receive and review all certificates of inspections, tests, and approvals required by Laws and Regulations or the Contract Documents. ENGINEER's review of such certificates will be for the purpose of determining that the results certified indicate compliance with the Contract Documents and will not constitute an independent evaluation that the content or procedures of such inspections, tests, or approvals comply with the requirements of the Contract Documents. ENGINEER shall be entitled to rely on the results of such tests.
- vii. Change Orders and Work Change Directives. Recommend Change Orders and Work Change Directives to OWNER, as appropriate, and prepare Change Orders and Work Change Directives as required.
- viii. Defective Work. Recommend to OWNER that Contractor's work be disapproved and rejected while it is in progress if, on the basis of such observations, ENGINEER believes that such work will not produce a completed Project that conforms generally to the Contract Documents or that it will prejudice the integrity of the design concept of the completed Project as a functioning whole as indicated in the Contract Documents.
- ix. Disagreements between OWNER and Contractor. Render formal written decisions on all claims of OWNER and Contractor relating to the acceptability of Contractor's work or the interpretation of the requirements of the Contract Documents pertaining to the execution and progress of Contractor's work. In rendering such decisions, ENGINEER shall be fair and not show partiality to OWNER or Contractor and shall not be liable in connection with any decision rendered in good faith in such capavillage.
- x. Applications for Payment. Based on ENGINEER's observations as an experienced and qualified design professional and on review of Applications for Payment and accompanying supporting documentation:

- Determine the amounts that ENGINEER recommends Contractor be paid. Such recommendations of payment will be in writing and will constitute ENGINEER's representation to OWNER, based on such observations and review, that, to the best of ENGINEER's knowledge, information and belief, Contractor's work has progressed to the point indicated, the quality of such work is generally in accordance with the Contract Documents (subject to an evaluation of the Work as a functioning whole prior to or upon Substantial Completion, to the results of any subsequent tests called for in the Contract Documents and to any other qualifications stated in the recommendation), and the conditions precedent to Contractor's being entitled to such payment appear to have been fulfilled in so far as it is ENGINEER's responsibility to observe Contractor's work. In the case of unit price work, ENGINEER's recommendations of payment will include final determinations of quantities and classifications of Contractor's work (subject to any subsequent adjustments allowed by the Contract Documents). The responsibilities of ENGINEER contained in Article 9 of the EJCDC Standard General Conditions of the Construction Contract (1996 Edition) and other express or general limitations in this Agreement and elsewhere.
- By recommending any payment, ENGINEER shall not thereby be deemed to have represented that observations made by ENGINEER to check the quality or quantity of Contractor's work as it is performed and furnished have been exhaustive, extended to every aspect of Contractor's work in progress, or involved detailed inspections of the Work beyond the responsibilities specifically assigned to ENGINEER in this Agreement and the Contract Documents. Neither ENGINEER's review of Contractor's work for the purposes of recommending payments nor ENGINEER's recommendation of any payment including final payment will impose on ENGINEER responsibility to supervise, direct, or control Contractor's work in progress or for the means, methods, techniques, sequences, or procedures of construction or safety precautions or programs incident thereto, or Contractor's compliance with Laws and Regulations applicable to Contractor's furnishing and performing the Work. It will also not impose responsibility on ENGINEER to make any examination to ascertain how or for what purposes Contractor has used the moneys paid on account of the Contract Price, or to determine that title to any portion of the work in progress, materials, or equipment has passed to OWNER free and clear of any liens, claims, security interests, or encumbrances, or that there may not be other matters at issue between OWNER and Contractor that might affect the amount that should be paid.

xi. Start-Up and Training: Attend start-up and training sessions provided by manufacturer's representatives and organized by Contractor.

b) Duration of Construction Phase. The duration of the construction phase as specified within the bidding documents is Two-Hundred and Seventy days for

substantial completion and Three Hundred (300) days for final completion, both from the Notice to Proceed. The Construction Phase will commence with the execution of the first Construction Agreement for the Project or any part thereof and will terminate upon written recommendation by ENGINEER for final payment to Contractors.

- c) If the Project extends beyond Three Hundred (300) days, the Construction Phase services of the contract will be increased proportionate to the value of this Task Order. If the Project involves more than one prime contract, Construction Phase services may be rendered at different times in respect to the separate contracts.
- d) Limitation of Responsibilities. ENGINEER shall not be responsible for the acts or omissions of any Contractor, or of any of their subcontractors, suppliers, or of any other individual or entity performing or furnishing any of the Work. ENGINEER shall not be responsible for failure of any Contractor to perform or furnish the Work in accordance with the Contract Documents.
- e) Contractor's Completion Documents.
  - i. Receive and review maintenance and operating instructions, schedules, and guarantees.
  - ii. Receive bonds, certificates, or other evidence of insurance not previously submitted and required by the Contract Documents, certificates of inspection, tests and approvals, Shop Drawings, Samples and other data approved as contained in Article 9 of the EJCDC Standard General Conditions of the Construction Contract (1996 Edition), and the annotated record documents which are to be assembled by Contractor in accordance with the Contract Documents to obtain final payment.
  - iii. Substantial Completion. Promptly after notice from Contractor that Contractor considers the entire Work ready for its intended use, in company with OWNER and Contractor, conduct an inspection to determine if the Work is Substantially Complete. If after considering any objections of OWNER, ENGINEER considers the Work Substantially Complete, ENGINEER shall deliver a certificate of Substantial Completion to OWNER and Contractor.
  - iv. Final Notice of Acceptability of the Work. Conduct a final inspection to determine if the completed Work of Contractor is acceptable so that ENGINEER may recommend, in writing, final payment to Contractor. Accompanying the recommendation for final payment, ENGINEER shall also provide a notice in the form attached hereto as Exhibit E (the "Notice of Acceptability of Work") that the Work is acceptable to the best of ENGINEER's knowledge, information, and belief and based on the extent of the services provided by ENGINEER under this Agreement.
  - v. Preparation of operation and maintenance manuals.

- vi. Prepare and furnish to the Village Record Drawings showing appropriate record information based on Project annotated record documents received from Contractor
- f) Reimbursable Expenses
  - i. Include all reimbursable costs necessary to support all phases of service required to completely fulfill this scope of work.
- g) Warranty Period
  - i. Include costs to provide engineering support during one-year warranty period.

### **PROJECT SCHEDULE**

Services will begin upon execution of this Agreement, which is anticipated on January 22, 2018.

- Submittal of drawings and specifications to IEPA and MWRDGC: April 16, 2018.
- Loan Review and Permit to Construct Approved: July 2, 2018.
- Advertisement for Bids: July 13, 2018.
- Bid Opening: August 31, 2018.
- Village Committee of the Whole Approval – Notice of Intent to Award: September 10, 2018.
- Village Board Consent Agenda Approval – Notice of Intent to Award: September 24, 2018.
- IEPA Loan Agreement Approval: November 20, 2018.
- Village Board Award to Contractor: November 30, 2018.
- Notice to Proceed: December 10, 2018.
- Submittal Approval: January 21, 2019.
- Equipment Arrives on Site: April 18, 2019.
- Substantial Completion September 6, 2019.
- Final Completion: October 7, 2019.

**ESTIMATED COMPENSATION**

***For Basic Services Having a Determined Scope -- Standard Hourly Rates Method of Payment Not To Exceed***

An amount equal to the cumulative hours charged to the Project by each class of ENGINEER's employees times Standard Hourly Rates for each applicable billing class for all services performed on the Project, plus Reimbursable Expenses and ENGINEER's Consultant's charges, if any.

ENGINEER's Reimbursable Expenses Schedule and Standard Hourly Rates are attached to this Exhibit B.

The total compensation for services will not exceed **\$218,843.00** based on the following distribution of compensation:

IEPA Loans.....	\$8,380.00
Preliminary Design Phase.....	\$74,040.00
Final Design Phase.....	\$54,475.00
Bidding.....	\$10,191.00
<u>Construction.....</u>	<u>\$71,757.00</u>
Total	\$218,843.00

ENGINEER may alter the distribution of compensation between individual phases of the work noted herein to be consistent with services actually rendered, but **shall not exceed** the total estimated compensation amount unless approved in writing by CLIENT. The total estimated compensation for ENGINEER's services included in the breakdown by phases incorporates all labor, overhead, profit, Reimbursable Expenses and ENGINEER's Consultant's charges. The amounts billed for ENGINEER's services will be based on the cumulative hours charged to the PROJECT during the billing period by each class of ENGINEER's employees times Standard Hourly Rates for each applicable billing class, plus Reimbursable Expenses and ENGINEER's Consultant's charges. The Standard Hourly Rates and Reimbursable Expenses Schedule will be adjusted annually as of January 1<sup>st</sup> to reflect equitable changes in the compensation payable to ENGINEER.

**IEPA LOAN SPECIAL PROVISIONS**

Engineer hereby agrees to incorporate and accept the following provisions to be included in the aforementioned Work Order at no additional compensation:

- A. The ENGINEER agrees to take affirmative steps to assure that disadvantaged business enterprises are utilized when possible as sources of supplies, equipment, construction and services in accordance with the Clean Water Loan Program rules as required by the award conditions of USEPA's Assistance Agreement with the IEPA. The ENGINEER acknowledges that the fair share percentages are 5% for MBE's and 12% for WBE's.
  
- B. The ENGINEER shall not discriminate on the basis of race, color, national origin or sex in the performance of this contract. The ENGINEER shall carry out applicable requirements of 40 CFR Part 33 in the award and administration of contracts awarded under EPA financial assistance agreements. Failure by the contractor to carry out these requirements is a material breach of



this contract which may result in the termination of this contract or other legally available remedies.

C. Audit and access to records clause:

1. Books, records, documents and other evidence directly pertinent to performance of WPCLP loan work under this agreement shall be maintained by the ENGINEER consistent with generally accepted accounting standards in accordance with the American Institute of Certified Public Accountants Professional Standards. The Agency or any of its authorized representatives shall have access to the books, records, documents and other evidence for the purpose of inspection, audit and copying. Facilities shall be provided by the ENGINEER for access and inspection.
2. Audits conducted pursuant to this provision shall be in accordance with generally accepted auditing standards.
3. All information and reports resulting from access to records pursuant to the above section C.1 shall be disclosed to the Agency by the ENGINEER. The auditing agency shall afford the ENGINEER an opportunity for an audit exit conference and an opportunity to comment on the pertinent portions of the draft audit report. The final audit report shall include the written comments, if any, or the audited parties.
4. Records under the above section C.1 shall be maintained and made available during performance of project services under this agreement and for 3 years after the final loan closing by the ENGINEER. In addition, those records that relate to any dispute pursuant to Section 365.650 (Disputes) of Illinois Administrative Code, Title 35, litigation, the settlement of claims arising out of project performance, costs or items to which an audit exception has been taken shall be maintained and made available for 3 years after the resolution of the appeal, litigation, claim or exception by the ENGINEER.

D. Covenant Against Contingent Fees:

The Engineer warrants that no person or selling agency has been employed or retained to solicit or secure this contract upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee, excepting bonafide employees. For breach or violation of this warranty, the Owner shall have the right to annul this agreement without liability or in its discretion to deduct from the contract price or consideration or otherwise recover, the full amount of such commission, percentage, brokerage, or contingent fee.

E. Certification Regarding Debarment, Suspension and Other Responsibility Matters

The ENGINEER certifies to the best of its knowledge and belief that it and its principals:

1. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any federal department or agency;



2. Have not within a three year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property.
3. Are not presently indicted for or otherwise criminally or civilly charged by a government entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (2) of this certification; and
4. Have not within a three year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

The ENGINEER understands that a false statement on this certification may be grounds for rejection of this proposal or termination of the award. In addition under 18 USC Sec. 1001, a false statement may result in a fine of up to \$10,000 or imprisonment for up to 5 years, or both.

#### **MISCELLANEOUS**

This Agreement constitutes the entire agreement between the parties and supersedes any prior oral or written representations. This agreement may not be changed, modified, or amended except in writing signed by both parties. In the event of any conflict among the exhibits, the exhibit of the latest date shall control.

ENGINEER may have portions of the Services performed by its affiliated entities or their employees, in which event ENGINEER shall be responsible for such services and CLIENT shall look solely to ENGINEER as if ENGINEER performed the Services. In no case shall CLIENT'S approval of any subcontract relieve ENGINEER of any of its obligations under this Agreement. However, ENGINEER is not responsible whatsoever for any obligations its subcontractors might have to its [subcontractors'] employees, including but not limited to proper compensation of its employees.

In the event CLIENT uses a purchase order form or other CLIENT developed document to administer this Agreement, the use of such documents shall be for the CLIENT's convenience only, and any provisions, terms or conditions within the CLIENT developed document shall be deemed stricken, null and void. Any provisions, terms or conditions which the CLIENT would like to reserve shall be added to Exhibit C – Supplemental Conditions and agreed to by both parties.

ENGINEER acknowledges that this project and the scope of work performed thereto will require ENGINEER and all lower tiered subcontractors of ENGINEER to comply with all obligations under and pursuant to the any applicable local, state and/or federal prevailing wage laws (e.g. Davis-Bacon Act, Illinois Prevailing Wage Act, etc.), including but not limited to all wage, notice and/or record keeping requirements to the extent applicable, necessitated and required by law.

If during negotiations or discussion with a Client it becomes clear that Client has determined prevailing wages are not applicable to the work performed by Trotter & Associates, it is best to confirm that understanding in writing with appropriate indemnification language. The following is draft language to consider:

Trotter & Associates' services performed is based on its understanding through the actions, statements and/or omissions of CLIENT that this project, Botterman STP Aerobic Digester and Belt Filter Press Upgrades, and the work performed relating thereto is professional in nature and not subject to prevailing wage requirements (federal, state or local). If Trotter & Associates' understanding is incorrect, CLIENT agrees and acknowledges that it shall immediately notify Trotter & Associates in writing within forty-eight (48) hours from receiving this notice so that Trotter & Associates may submit a revised proposal and/or invoice reflecting the additional costs associated with applicable prevailing wage laws. If at any time it is determined that this project is or was subject to prevailing wage requirements under federal, state or local law, then CLIENT agrees and acknowledges that it shall reimburse and make whole Trotter & Associates for any back wages, penalties and/or interest owed to its employees or any other third party, including any appropriate governmental agency. CLIENT also agrees that prices, costs and/or applicable fees will also be increased prospectively as required by the increase in wage payments to Trotter & Associates' employees. CLIENT understands and acknowledges that it shall notify Trotter & Associates of any prevailing wage requirements or obligations under applicable laws relating to the work or services performed by Trotter & Associates. CLIENT also agrees to indemnify and hold Trotter & Associates harmless from any error, act or omission on its part with regard to prevailing wage notification that causes any claim, cause of action, harm or loss upon Trotter & Associates, including but not limited to prompt reimbursement to Trotter & Associates of any and all back wages, penalties and/or interest owed to its employees or any other third party, including reasonable attorneys' fees and costs associated with such claim, cause of action, harm or loss.

**CONTENTS OF AGREEMENT**

This Letter Agreement and the Exhibits attached hereto and incorporated herein, represent the entire understanding with respect to the Project and may only be modified in writing signed by both parties.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement.

CLIENT:

Trotter and Associates, Inc.:

\_\_\_\_\_

\_\_\_\_\_

By: \_\_\_\_\_

By: Colin F. Shulick

Title: \_\_\_\_\_

Title: Vice President/CFO

Effective Date: \_\_\_\_\_

Date Signed: \_\_\_\_\_

Address for giving notices:

Address for giving notices:  
40W201 Wasco Road, Suite D  
St. Charles, IL 60175

Designated Representative

Designated Representative:

\_\_\_\_\_

Title:

Title: \_\_\_\_\_

Phone Number:

Phone Number: 630-587-0470

Facsimile Number:

Facsimile Number: 630-587-0475

E-Mail Address:

E-Mail Address: \_\_\_\_\_@trotter-inc.com

**ATTACHMENTS:**

EXHIBIT A - STANDARD TERMS AND CONDITIONS

EXHIBIT B - SCHEDULE OF HOURLY RATES AND REIMBURSIBLE EXPENSES

EXHIBIT C - SUPPLEMENTAL GENERAL CONDITIONS

EXHIBIT D - CONTRACT ADDENDUM

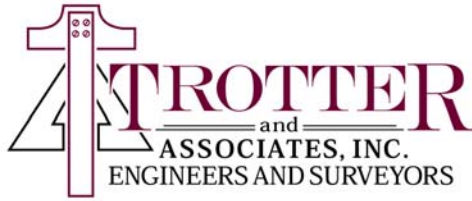
EXHIBIT E - CONTRACT MAN HOURS BY TASK AND COST

EXHIBIT F - SUBCONSULTANT AGREEMENT

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CLIENT Initial \_\_\_\_\_

TAI Initial \_\_\_\_\_



## EXHIBIT A - STANDARD TERMS AND CONDITIONS

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### ARTICLE 1 - SERVICES OF ENGINEER

#### 1.01 SCOPE

- A. ENGINEER shall provide the Professional Services set forth herein and in the Letter Agreement.
- B. Upon this Agreement becoming effective, ENGINEER is authorized to begin Services.

### ARTICLE 2 - CLIENT'S RESPONSIBILITIES

#### 2.01 GENERAL

- A. Provide ENGINEER with all criteria and full information as to CLIENT's requirements for the Project, including design objectives and constraints, space, capacity and performance requirements, flexibility, and expandability, and any budgetary limitations; and furnish copies of all design and construction standards which CLIENT will require to be included in the Drawings and Specifications; and furnish copies of CLIENT's standard forms, conditions, and related documents for ENGINEER to include in the Bidding Documents, when applicable.
- B. Furnish to ENGINEER any other available information pertinent to the Project including reports and data relative to previous designs, or investigation at or adjacent to the Site.
- C. Following ENGINEER's assessment of initially-available Project information and data and upon ENGINEER's request, furnish or otherwise make available such additional Project related information and data as is reasonably required to enable ENGINEER to complete its Basic and Additional Services. Such additional information or data would generally include the following:
1. Property descriptions.
  2. Zoning, deed, and other land use restrictions.
  3. Property, boundary, easement, right-of-way, and other special surveys or data, including establishing relevant reference points.
  4. Explorations and tests of subsurface conditions at or contiguous to the Site, drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the Site, or hydrographic surveys, with appropriate professional interpretation thereof.
  5. Environmental assessments, audits, investigations and impact statements, and other relevant environmental or cultural studies as to the Project, the Site, and adjacent areas.
  6. Data or consultations as required for the Project but not otherwise identified in the Agreement or the Exhibits thereto.
- D. Give prompt written notice to ENGINEER whenever CLIENT observes or otherwise becomes aware of a Hazardous Environmental Condition or of any other development that affects the scope or time of performance of ENGINEER's services, or any defect or nonconformance in ENGINEER's services or in the work of any Contractor.

- E. Authorize ENGINEER to provide Additional Services as set forth in Exhibit D - Addendum of the Agreement as required.
- F. Arrange for safe access to and make all provisions for ENGINEER to enter upon public and private property as required for ENGINEER to perform services under the Agreement.
- G. Examine all alternate solutions, studies, reports, sketches, Drawings, Specifications, proposals, and other documents presented by ENGINEER (including obtaining advice of an attorney, insurance counselor, and other advisors or consultants as CLIENT deems appropriate with respect to such examination) and render in writing timely decisions pertaining thereto.
- H. Provide reviews, approvals, and permits from all governmental authorities having jurisdiction to approve all phases of the Project designed or specified by ENGINEER and such reviews, approvals, and consents from others as may be necessary for completion of each phase of the Project.
- I. Provide, as required for the Project:
  - 1. Accounting, bond and financial advisory, independent cost estimating, and insurance counseling services.
  - 2. Legal services with regard to issues pertaining to the Project as CLIENT requires, Contractor raises, or ENGINEER reasonably requests.
  - 3. Such auditing services as CLIENT requires to ascertain how or for what purpose Contractor has used the moneys paid.
  - 4. Placement and payment for advertisement for Bids in appropriate publications.
- J. Advise ENGINEER of the identity and scope of services of any independent consultants employed by CLIENT to perform or furnish services in regard to the Project, including, but not limited to, cost estimating, project peer review, value engineering, and constructability review.
- K. Furnish to ENGINEER data as to CLIENT's anticipated costs for services to be provided by others for CLIENT so that ENGINEER may make the necessary calculations to develop and periodically adjust ENGINEER's opinion of Total Project Costs.
- L. If CLIENT designates a manager or an individual or entity other than, or in addition to, ENGINEER to represent CLIENT at the Site, the duties, responsibilities, and limitations of authority of such other party shall be disclosed to the ENGINEER and coordinated in relation to the duties, responsibilities, and authority of ENGINEER.
- M. If more than one prime contract is to be awarded for the Work designed or specified by ENGINEER, designate a person or entity to have authority and responsibility for coordinating the activities among the various prime Contractors, and define and set forth the duties, responsibilities, and limitations of authority of such individual or entity and the relation thereof to the duties, responsibilities, and authority of ENGINEER is to be mutually agreed upon and made a part of this Agreement before such services begin.
- N. Attend the pre-bid conference, bid opening, pre-construction conferences, construction progress and other job related meetings, and Substantial Completion and final payment inspections.
- O. Provide the services of an independent testing laboratory to perform all inspections, tests, and approvals of Samples, materials, and equipment required by the Contract Documents, or to evaluate the performance of materials, equipment, and facilities of CLIENT, prior to their incorporation into the Work with appropriate professional interpretation thereof.
- P. Provide inspection or monitoring services by an individual or entity other than ENGINEER (and disclose the identity of such individual or entity to ENGINEER) as CLIENT determines necessary to verify:
  - 1. That Contractor is complying with any Laws and Regulations applicable to Contractor's performing and furnishing the Work.
  - 2. That Contractor is taking all necessary precautions for safety of persons or property and complying with any special provisions of the Contract Documents applicable to safety.
- Q. Provide ENGINEER with the findings and reports generated by the entities providing services pursuant to paragraphs 2.01.O and P.

**ARTICLE 3 - TIMES FOR RENDERING SERVICES**

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**3.01 GENERAL**

- A. ENGINEER's services and compensation under this Agreement have been agreed to in anticipation of the orderly and continuous progress of the Project through completion. Unless specific periods of time or specific dates for providing services are specified in this Agreement, ENGINEER's obligation to render services hereunder will be for a period which may reasonably be required for the completion of said services.
- B. If in this Agreement specific periods of time for rendering services are set forth or specific dates by which services are to be completed are provided, and if such periods of time or dates are changed through no fault of ENGINEER, the rates and amounts of compensation provided for herein shall be subject to equitable adjustment. If CLIENT has requested changes in the scope, extent, or character of the Project, the time of performance of ENGINEER's services shall be adjusted equitably.
- C. For purposes of this Agreement the term "day" means a calendar day of 24 hours.

**3.02 SUSPENSION**

- A. If CLIENT fails to give prompt written authorization to proceed with any phase of services after completion of the immediately

preceding phase, or if ENGINEER's services are delayed through no fault of ENGINEER, ENGINEER may, after giving seven days written notice to CLIENT, suspend services under this Agreement.

- B. If ENGINEER's services are delayed or suspended in whole or in part by CLIENT, or if ENGINEER's services are extended by Contractor's actions or inactions for more than 90 days through no fault of ENGINEER, ENGINEER shall be entitled to equitable adjustment of rates and amounts of compensation provided for elsewhere in this Agreement to reflect, reasonable costs incurred by ENGINEER in connection with, among other things, such delay or suspension and reactivation and the fact that the time for performance under this Agreement has been revised.

#### ARTICLE 4 - PAYMENTS TO ENGINEER

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##### 4.01 METHODS OF PAYMENT FOR SERVICES AND REIMBURSABLE EXPENSES OF ENGINEER

- A. *For Basic Services.* CLIENT shall pay ENGINEER for Basic Services performed or furnished under as outlined in the Letter Agreement
- B. *For Additional Services.* CLIENT shall pay ENGINEER for Additional Services performed or furnished as outlined in Exhibit D.
- C. *For Reimbursable Expenses.* CLIENT shall pay ENGINEER for Reimbursable Expenses incurred by ENGINEER and ENGINEER's Consultants as set forth in Exhibit B.

##### 4.02 OTHER PROVISIONS CONCERNING PAYMENTS

- A. *Preparation of Invoices.* Invoices will be prepared in accordance with ENGINEER's standard invoicing practices and will be submitted to CLIENT by ENGINEER, unless otherwise agreed.
- B. *Payment of Invoices.* Invoices are due and payable within 30 days of receipt. If CLIENT fails to make any payment due ENGINEER for services and expenses within 30 days after receipt of ENGINEER's invoice therefor, the amounts due ENGINEER will be increased at the rate of 1.0% per month (or the maximum rate of interest permitted by law, if less) from said thirtieth day. In addition, ENGINEER may, after giving seven days written notice to CLIENT, suspend services under this Agreement until ENGINEER has been paid in full all amounts due for services, expenses, and other related charges. Payments will be credited first to interest and then to principal.
- C. *Disputed Invoices.* In the event of a disputed or contested invoice, only that portion so contested may be withheld from payment, and the undisputed portion will be paid.
- D. *Payments Upon Termination.*
1. In the event of any termination under paragraph 6.06, ENGINEER will be entitled to invoice CLIENT and will be paid in accordance with Exhibit B for all services performed or furnished and all Reimbursable Expenses incurred through the effective date of termination.

2. In the event of termination by CLIENT for convenience or by ENGINEER for cause, ENGINEER, in addition to invoicing for those items identified in subparagraph 4.02.D.1, shall be entitled to invoice CLIENT and shall be paid a reasonable amount for services and expenses directly attributable to termination, both before and after the effective date of termination, such as reassignment of personnel, costs of terminating contracts with ENGINEER's Consultants, and other related close-out costs, using methods and rates for Additional Services as set forth in Exhibit B.

- E. *Records of ENGINEER's Costs.* Records of ENGINEER's costs pertinent to ENGINEER's compensation under this Agreement shall be kept in accordance with generally accepted accounting practices. To the extent necessary to verify ENGINEER's charges and upon CLIENT's timely request, copies of such records will be made available to CLIENT at cost.
- F. *Legislative Actions.* In the event of legislative actions after the Effective Date of the Agreement by any level of government that impose taxes, fees, or costs on ENGINEER's services or other costs in connection with this Project or compensation therefore, such new taxes, fees, or costs shall be invoiced to and paid by CLIENT as a Reimbursable Expense to which a Factor of 1.0 shall be applied. Should such taxes, fees, or costs be imposed, they shall be in addition to ENGINEER's estimated total compensation.

#### ARTICLE 5 - OPINIONS OF COST

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##### 5.01 OPINIONS OF PROBABLE CONSTRUCTION COST

- A. ENGINEER's opinions of probable Construction Cost provided for herein are to be made on the basis of ENGINEER's experience and qualifications and represent ENGINEER's best judgment as an experienced and qualified professional generally familiar with the industry. However, since ENGINEER has no control over the cost of labor, materials, equipment, or services furnished by others, or over the Contractor's methods of determining prices, or over competitive bidding or market conditions, ENGINEER cannot and does not guarantee that proposals, bids, or actual Construction Cost will not vary from opinions of probable Construction Cost prepared by ENGINEER. If CLIENT wishes greater assurance as to probable Construction Cost, CLIENT shall employ an independent cost estimator.

##### 5.02 DESIGNING TO CONSTRUCTION COST LIMIT

- A. If a Construction Cost limit is established between CLIENT and ENGINEER, such Construction Cost limit and a statement of ENGINEER's rights and responsibilities with respect thereto will be specifically set forth in Exhibit C - Supplemental General Conditions.

##### 5.03 OPINIONS OF TOTAL PROJECT COSTS

- A. ENGINEER assumes no responsibility for the accuracy of opinions of Total Project Costs.

**ARTICLE 6 - GENERAL CONSIDERATIONS**

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**6.01 STANDARDS OF PERFORMANCE**

- A. The standard of care for all professional engineering and related services performed or furnished by ENGINEER under this Agreement will be the care and skill ordinarily used by members of ENGINEER's profession practicing under similar circumstances at the same time and in the same locality. ENGINEER makes no warranties, express or implied, under this Agreement or otherwise, in connection with ENGINEER's services.
- B. ENGINEER shall be responsible for the technical accuracy of its services and documents resulting therefrom, and CLIENT shall not be responsible for discovering deficiencies therein. ENGINEER shall correct such deficiencies without additional compensation except to the extent such action is directly attributable to deficiencies in CLIENT-furnished information.
- C. ENGINEER shall perform or furnish professional engineering and related services in all phases of the Project to which this Agreement applies. ENGINEER shall serve as CLIENT's prime professional for the Project. ENGINEER may employ such ENGINEER's Consultants as ENGINEER deems necessary to assist in the performance or furnishing of the services. ENGINEER shall not be required to employ any ENGINEER's Consultant unacceptable to ENGINEER.
- D. ENGINEER and CLIENT shall comply with applicable Laws or Regulations and CLIENT-mandated standards. This Agreement is based on these requirements as of its Effective Date. Changes to these requirements after the Effective Date of this Agreement may be the basis for modifications to CLIENT's responsibilities or to ENGINEER's scope of services, times of performance, or compensation.
- E. CLIENT shall be responsible for, and ENGINEER may rely upon, the accuracy and completeness of all requirements, programs, instructions, reports, data, and other information furnished by CLIENT to ENGINEER pursuant to this Agreement. ENGINEER may use such requirements, reports, data, and information in performing or furnishing services under this Agreement.
- F. CLIENT shall make decisions and carry out its other responsibilities in a timely manner and shall bear all costs incident thereto so as not to delay the services of ENGINEER.
- G. Prior to the commencement of the Construction Phase, CLIENT shall notify ENGINEER of any other notice or certification that ENGINEER will be requested to provide to CLIENT or third parties in connection with the Project. CLIENT and ENGINEER shall reach agreement on the terms of any such requested notice or certification, and CLIENT shall authorize such Additional Services as are necessary to enable ENGINEER to provide the notices or certifications requested.
- H. ENGINEER shall not be required to sign any documents, no matter by whom requested, that would result in the ENGINEER's having to certify, guarantee or warrant the existence of conditions whose existence the ENGINEER cannot ascertain. CLIENT agrees not to make resolution of any dispute with the ENGINEER or payment of any amount due to the

ENGINEER in any way contingent upon the ENGINEER's signing any such certification.

- I. During the Construction Phase, ENGINEER shall not supervise, direct, or have control over Contractor's work, nor shall ENGINEER have authority over or responsibility for the means, methods, techniques, sequences, or procedures of construction selected by Contractor, for safety precautions and programs incident to the Contractor's work in progress, nor for any failure of Contractor to comply with Laws and Regulations applicable to Contractor's furnishing and performing the Work.
- J. ENGINEER neither guarantees the performance of any Contractor nor assumes responsibility for any Contractor's failure to furnish and perform the Work in accordance with the Contract Documents.
- K. ENGINEER shall not be responsible for the acts or omissions of any Contractor(s), subcontractor or supplier, or of any of the Contractor's agents or employees or any other persons (except ENGINEER's own employees) at the Site or otherwise furnishing or performing any of the Contractor's work; or for any decision made on interpretations or clarifications of the Contract Documents given by CLIENT without consultation and advice of ENGINEER.
- L. The General Conditions for any construction contract documents prepared hereunder are to be the "Standard General Conditions of the Construction Contract" as prepared by the Engineers Joint Contract Documents Committee (Document No. 1910-8, 1996 Edition) unless both parties mutually agree to use other General Conditions.

**6.02 AUTHORIZED PROJECT REPRESENTATIVES**

- A. Contemporaneous with the execution of this Agreement, ENGINEER and CLIENT shall designate specific individuals to act as ENGINEER's and CLIENT's representatives with respect to the services to be performed or furnished by ENGINEER and responsibilities of CLIENT under this Agreement. Such individuals shall have authority to transmit instructions, receive information, and render decisions relative to the Project on behalf of each respective party.

**6.03 DESIGN WITHOUT CONSTRUCTION PHASE SERVICES**

- A. Should CLIENT provide Construction Phase services with either CLIENT's representatives or a third party, ENGINEER's Basic Services under this Agreement will be considered to be completed upon completion of the Final Design Phase or Bidding or Negotiating Phase as outlined in the Letter Agreement.
- B. It is understood and agreed that if ENGINEER's Basic Services under this Agreement do not include Project observation, or review of the Contractor's performance, or any other Construction Phase services, and that such services will be provided by CLIENT, then CLIENT assumes all responsibility for interpretation of the Contract Documents and for construction observation or review and waives any claims against the ENGINEER that may be in any way connected thereto.



**6.04 USE OF DOCUMENTS**

- A. All Documents are instruments of service in respect to this Project, and ENGINEER shall retain an ownership and property interest therein (including the right of reuse at the discretion of the ENGINEER) whether or not the Project is completed.
- B. Copies of CLIENT-furnished data that may be relied upon by ENGINEER are limited to the printed copies (also known as hard copies) that are delivered to the ENGINEER. Files in electronic media format of text, data, graphics, or of other types that are furnished by CLIENT to ENGINEER are only for convenience of ENGINEER. Any conclusion or information obtained or derived from such electronic files will be at the user's sole risk.
- C. Copies of Documents that may be relied upon by CLIENT are limited to the printed copies (also known as hard copies) that are signed or sealed by the ENGINEER. Files in electronic media format of text, data, graphics, or of other types that are furnished by ENGINEER to CLIENT are only for convenience of CLIENT. Any conclusion or information obtained or derived from such electronic files will be at the user's sole risk.
- D. Because data stored in electronic media format can deteriorate or be modified inadvertently or otherwise without authorization of the data's creator, the party receiving electronic files agrees that it will perform acceptance tests or procedures within 60 days, after which the receiving party shall be deemed to have accepted the data thus transferred. Any errors detected within the 60-day acceptance period will be corrected by the party delivering the electronic files. ENGINEER shall not be responsible to maintain documents stored in electronic media format after acceptance by CLIENT.
- E. When transferring documents in electronic media format, ENGINEER makes no representations as to long term compatibility, usability, or readability of documents resulting from the use of software application packages, operating systems, or computer hardware differing from those used by ENGINEER at the beginning of this Project.
- F. CLIENT may make and retain copies of Documents for information and reference in connection with use on the Project by CLIENT. Such Documents are not intended or represented to be suitable for reuse by CLIENT or others on extensions of the Project or on any other project. Any such reuse or modification without written verification or adaptation by ENGINEER, as appropriate for the specific purpose intended, will be at CLIENT's sole risk and without liability or legal exposure to ENGINEER or to ENGINEER's Consultants. CLIENT shall indemnify and hold harmless ENGINEER and ENGINEER's Consultants from all claims, damages, losses, and expenses, including attorneys' fees arising out of or resulting therefrom.
- G. If there is a discrepancy between the electronic files and the hard copies, the hard copies govern.
- H. Any verification or adaptation of the Documents for extensions of the Project or for any other project will entitle ENGINEER to further compensation at rates as defined in Exhibit B.

**6.05 INSURANCE**

- A. ENGINEER shall procure and maintain insurance as set forth below:
  - 1. Workers Compensation & Employer's Liability
    - a. Each Occurrence: \$1,000,000
  - 2. General Liability
    - a. Each Occurrence: \$1,000,000
    - b. General Aggregate: \$2,000,000
  - 3. Excess or Umbrella Liability
    - a. Each Occurrence: \$5,000,000
    - b. General Aggregate: \$5,000,000
  - 4. Automobile Liability
    - a. Combined Single Limit (Bodily Injury and Property Damage):  
Each Accident \$1,000,000
  - 5. Professional Liability
    - a. Each Occurrence: \$2,000,000
    - b. General Aggregate: \$2,000,000
- B. CLIENT shall cause ENGINEER and ENGINEER's Consultants to be listed as additional insureds on any general liability or property insurance policies carried by CLIENT which are applicable to the Project.
- C. CLIENT shall require Contractor to purchase and maintain general liability and other insurance as specified in the Contract Documents and to cause ENGINEER and ENGINEER's Consultants to be listed as additional insureds with respect to such liability and other insurance purchased and maintained by Contractor for the Project
- D. CLIENT and ENGINEER shall each deliver to the other certificates of insurance evidencing the coverage.
- E. All policies of property insurance shall contain provisions to the effect that ENGINEER's and ENGINEER's Consultants' interests are covered and that in the event of payment of any loss or damage the insurers will have no rights of recovery against any of the insureds or additional insureds thereunder.
- F. At any time, CLIENT may request that ENGINEER, at CLIENT's sole expense, provide additional insurance coverage, increased limits, or revised deductibles that are more protective. If so requested by CLIENT, with the concurrence of ENGINEER, and if commercially available, ENGINEER shall obtain and shall require ENGINEER's Consultants to obtain such additional insurance coverage, different limits, or revised deductibles for such periods of time as requested by CLIENT.

**6.06 TERMINATION**

- A. The obligation to provide further services under this Agreement may be terminated:
  - 1. For cause,

- a. By either party upon 30 days written notice in the event of substantial failure by the other party to perform in accordance with the terms hereof through no fault of the terminating party.
- b. By ENGINEER:
  - 1) upon seven days written notice if ENGINEER believes that ENGINEER is being requested by CLIENT to furnish or perform services contrary to ENGINEER's responsibilities as a licensed professional; or
  - 2) upon seven days written notice if the ENGINEER's services for the Project are delayed or suspended for more than 90 days for reasons beyond ENGINEER's control.
  - 3) ENGINEER shall have no liability to CLIENT on account of such termination.
- c. Notwithstanding the foregoing, this Agreement will not terminate as a result of such substantial failure if the party receiving such notice begins, within seven days of receipt of such notice, to correct its failure to perform and proceeds diligently to cure such failure within no more than 30 days of receipt thereof; provided, however, that if and to the extent such substantial failure cannot be reasonably cured within such 30 day period, and if such party has diligently attempted to cure the same and thereafter continues diligently to cure the same, then the cure period provided for herein shall extend up to, but in no case more than, 60 days after the date of receipt of the notice.

2. *For convenience,*

- a. By CLIENT effective upon the receipt of notice by ENGINEER.

- B. The terminating party under paragraphs 6.06.A.1 or 6.06.A.2 may set the effective date of termination at a time up to 30 days later than otherwise provided to allow ENGINEER to demobilize personnel and equipment from the Site, to complete tasks whose value would otherwise be lost, to prepare notes as to the status of completed and uncompleted tasks, and to assemble Project materials in orderly files.

**6.07 CONTROLLING LAW**

- A. This Agreement is to be governed by the law of the state in which the Project is located.

**6.08 SUCCESSORS, ASSIGNS, AND BENEFICIARIES**

- A. CLIENT and ENGINEER each is hereby bound and the partners, successors, executors, administrators and legal representatives of CLIENT and ENGINEER (and to the extent permitted by paragraph 6.08.B the assigns of CLIENT and ENGINEER) are hereby bound to the other party to this Agreement and to the partners, successors, executors, administrators and legal representatives (and said assigns) of such other party, in respect of all covenants, agreements and obligations of this Agreement.

- B. Neither CLIENT nor ENGINEER may assign, sublet, or transfer any rights under or interest (including, but without limitation, moneys that are due or may become due) in this Agreement without the written consent of the other, except to the extent that any assignment, subletting, or transfer is mandated or restricted by law. Unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assignor from any duty or responsibility under this Agreement.
- C. Unless expressly provided otherwise in this Agreement:
  1. Nothing in this Agreement shall be construed to create, impose, or give rise to any duty owed by CLIENT or ENGINEER to any Contractor, Contractor's subcontractor, supplier, other individual or entity, or to any surety for or employee of any of them.
  2. All duties and responsibilities undertaken pursuant to this Agreement will be for the sole and exclusive benefit of CLIENT and ENGINEER and not for the benefit of any other party. The CLIENT agrees that the substance of the provisions of this paragraph 6.08.C shall appear in the Contract Documents.

**6.09 DISPUTE RESOLUTION**

- A. CLIENT and ENGINEER agree to negotiate all disputes between them in good faith for a period of 30 days from the date of notice prior to exercising their rights under provisions of this Agreement, or under law. In the absence of such an agreement, the parties may exercise their rights under law.
- B. If and to the extent that CLIENT and ENGINEER have agreed on a method and procedure for resolving disputes between them arising out of or relating to this Agreement, such dispute resolution method and procedure is set forth in Exhibit C, "Supplemental Conditions."

**6.10 HAZARDOUS ENVIRONMENTAL CONDITION**

- A. CLIENT represents to Engineer that to the best of its knowledge a Hazardous Environmental Condition does not exist.
- B. CLIENT has disclosed to the best of its knowledge to ENGINEER the existence of all Asbestos, PCB's, Petroleum, Hazardous Waste, or Radioactive Material located at or near the Site, including type, quantity and location.
- C. If a Hazardous Environmental Condition is encountered or alleged, ENGINEER shall have the obligation to notify CLIENT and, to the extent of applicable Laws and Regulations, appropriate governmental officials.
- D. It is acknowledged by both parties that ENGINEER's scope of services does not include any services related to a Hazardous Environmental Condition. In the event ENGINEER or any other party encounters a Hazardous Environmental Condition, ENGINEER may, at its option and without liability for consequential or any other damages, suspend performance of services on the portion of the Project affected thereby until CLIENT: (i) retains appropriate specialist consultant(s) or contractor(s) to identify and, as appropriate, abate, remediate,

or remove the Hazardous Environmental Condition; and (ii) warrants that the Site is in full compliance with applicable Laws and Regulations.

- E. CLIENT acknowledges that ENGINEER is performing professional services for CLIENT and that ENGINEER is not and shall not be required to become an "arranger," "operator," "generator," or "transporter" of hazardous substances, as defined in the Comprehensive Environmental Response, Compensation, and Liability Act of 1990 (CERCLA), which are or may be encountered at or near the Site in connection with ENGINEER's activities under this Agreement.
- F. If ENGINEER's services under this Agreement cannot be performed because of a Hazardous Environmental Condition, the existence of the condition shall justify ENGINEER's terminating this Agreement for cause on 30 days notice.

#### 6.11 ALLOCATION OF RISKS

##### A. Indemnification

1. To the fullest extent permitted by law, ENGINEER shall indemnify and hold harmless CLIENT, CLIENT's officers, directors, partners, and employees from and against any and all costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals, and all court or arbitration or other dispute resolution costs) caused solely by the negligent acts or omissions of ENGINEER or ENGINEER's officers, directors, partners, employees, and ENGINEER's Consultants in the performance and furnishing of ENGINEER's services under this Agreement.
2. To the fullest extent permitted by law, CLIENT shall indemnify and hold harmless ENGINEER, ENGINEER's officers, directors, partners, employees, and ENGINEER's Consultants from and against any and all costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals, and all court or arbitration or other dispute resolution costs) caused solely by the negligent acts or omissions of CLIENT or CLIENT's officers, directors, partners, employees, and CLIENT's consultants with respect to this Agreement or the Project.
3. To the fullest extent permitted by law, ENGINEER's total liability to CLIENT and anyone claiming by, through, or under CLIENT for any cost, loss, or damages caused in part by the negligence of ENGINEER and in part by the negligence of CLIENT or any other negligent entity or individual, shall not exceed the percentage share that ENGINEER's negligence bears to the total negligence of CLIENT, ENGINEER, and all other negligent entities and individuals.
4. In addition to the indemnity provided under paragraph 6.11.A.2 of this Agreement, and to the fullest extent permitted by law, CLIENT shall indemnify and hold harmless ENGINEER and its officers, directors, partners, employees, and ENGINEER's Consultants from and against all costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals, and all court or arbitration or

other dispute resolution costs) caused by, arising out of or resulting from a Hazardous Environmental Condition, provided that (i) any such cost, loss, or damage is attributable to bodily injury, sickness, disease, or death, or to injury to or destruction of tangible property (other than completed Work), including the loss of use resulting therefrom, and (ii) nothing in this paragraph 6.11.A.4. shall obligate CLIENT to indemnify any individual or entity from and against the consequences of that individual's or entity's own negligence or willful misconduct.

5. The indemnification provision of paragraph 6.11.A.1 is subject to and limited by the provisions agreed to by CLIENT and ENGINEER in Exhibit C, "Supplemental Conditions," if any.

#### 6.12 NOTICES

- A. Any notice required under this Agreement will be in writing, addressed to the appropriate party at its address on the signature page and given personally, or by registered or certified mail postage prepaid, or by a commercial courier service. All notices shall be effective upon the date of receipt.

#### 6.13 SURVIVAL

- A. All express representations, indemnifications, or limitations of liability included in this Agreement will survive its completion or termination for any reason.

#### 6.14 SEVERABILITY

- A. Any provision or part of the Agreement held to be void or unenforceable under any Laws or Regulations shall be deemed stricken, and all remaining provisions shall continue to be valid and binding upon CLIENT and ENGINEER, who agree that the Agreement shall be reformed to replace such stricken provision or part thereof with a valid and enforceable provision that comes as close as possible to expressing the intention of the stricken provision.

#### 6.15 WAIVER

- A. Non-enforcement of any provision by either party shall not constitute a waiver of that provision, nor shall it affect the enforceability of that provision or of the remainder of this Agreement.

#### 6.16 HEADINGS

- A. The headings used in this Agreement are for general reference only and do not have special significance.

#### 6.16 DEFINITIONS

- A. Defined terms will be in accordance with EJDC No. 1910-1 (1996 Edition)

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**EXHIBIT B  
 SCHEDULE OF HOURLY RATE AND REIMBURSABLE EXPENSES**

**2018 Schedule of Hourly Rates**

<b>Classification</b>	<b>Billing Rate</b>
Principal Engineer	\$225.00
Engineer Level VIII	\$219.00
Engineer Level VII	\$193.00
Engineer Level VI	\$183.00
Engineer Level V	\$158.00
Engineer Level IV	\$138.00
Engineer Level III	\$125.00
Engineer Level II	\$113.00
Engineer Level I	\$100.00
Engineering Intern	\$52.00
Senior Technician	\$155.00
Technician Level IV	\$138.00
Technician Level III	\$125.00
Technician Level II	\$109.00
Technician Level I	\$98.00
GIS Specialist III	\$143.00
GIS Specialist II	\$109.00
GIS Specialist I	\$198.00
Clerical Level III	\$88.00
Clerical Level II	\$76.00
Clerical Level I	\$64.00
Professional Land Surveyor	\$183.00
Survey Crew Chief	\$155.00
Survey Technician Level II	\$79.00
Survey Technician Level I	\$66.00
Department Director	\$183.00
Prevailing Wage Survey Foreman**	\$185.00
Prevailing Wage Survey Worker**	\$181.00
Sub Consultants	Cost Plus 5%

*\*\*Rates will be escalated for Overtime & Holiday Pay to adjust for Premium Time based on the current Illinois Department of Labor Rules*

*Note: On January 1<sup>st</sup> of each year, the fees and hourly rates may be escalated by an amount not to exceed five (5) percent.*

**2018 Reimbursable Expenses**

<b>Item</b>	<b>Unit</b>	<b>Unit Price</b>
Engineering Copies 1- 249 Sq. Ft.	Sq. Ft.	\$0.29
Engineering Copies 250-999 Sq. Ft.	Sq. Ft.	\$0.27
Engineering Copies 1000-3999 Sq. Ft.	Sq. Ft.	\$0.25
Engineering Copies 3999 Sq. Ft. & Up	Sq. Ft.	\$0.23
Mylar Engineering Copies up to 24" by 36"	Each	\$8.00
Color Presentation Grade Large Format Print	Sq. Ft.	\$5.15
Comb Binding > 120 Sheets	Each	\$4.75
Comb Binding < 120 Sheets	Each	\$3.50
Binding Strips (Engineering Plans)	Each	\$1.00
5 Mil Laminating	Each	\$1.25
Copy 11" x 17" - Color	Each	\$0.50
Copy 11" x 17" - Black and White	Each	\$0.25
Copy 8.5" x 11" - Color	Each	\$0.25
Copy 8.5" x 11" - Black and White	Each	\$0.12
Recorded Documents	Each	\$25.00
Plat Research	Time and Material	
Per Diem	Each Day	\$30.00
Field / Survey Truck	Each Day	\$45.00
Postage and Freight	Cost	
Mileage	Per Mile	Federal Rate

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CLIENT Initial \_\_\_\_\_

TAI Initial \_\_\_\_\_



**EXHIBIT C  
SUPPLEMENTAL CONDITIONS**

*NONE AT THIS TIME*

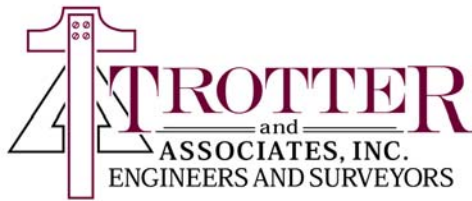
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CLIENT Initial \_\_\_\_\_

TAI Initial \_\_\_\_\_



**EXHIBIT D  
CONTRACT ADDENDUM**

Project Name: \_\_\_\_\_

Project No. \_\_\_\_\_

Addendum No. \_\_\_\_\_

This is an addendum attached to, made part of and incorporated by reference into the Agreement between CLIENT and ENGINEER for modification of scope and compensation for the PROJECT. All other terms and conditions of the original Agreement between CLIENT and ENGINEER are unchanged by this Contract Addendum and shall remain in full force and effect and shall govern the obligations of both CLIENT and ENGINEER, including obligations created by this Contract Addendum.

The contract modifications are described below:

- 1.
- 2.
- 3.

CONTRACT SUMMARY

Original Contract Amount	\$ _____
Changes Prior to This Change	\$ _____
Amount of This Change	\$ _____
Revised Contract Amount:	\$ _____

For purposes of expediency, ENGINEER and CLIENT agree that an executed electronic version of this Contract Addendum shall suffice. The original of this Contract Addendum shall be returned to ENGINEER after execution.

CLIENT:

ENGINEER:

[ \_\_\_\_\_ ]

TROTTER AND ASSOCIATES, INC.

SIGNED:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

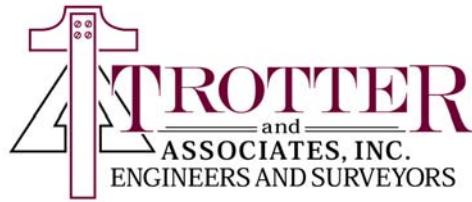
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CLIENT Initial \_\_\_\_\_

TAI Initial \_\_\_\_\_

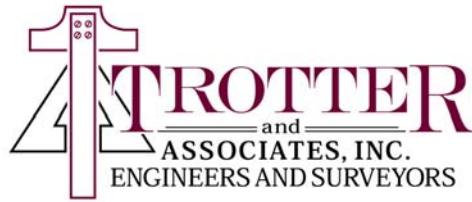


**EXHIBIT E  
MANHOUR BY TASK AND COST**

PRELIMINARY DESIGN	Engineer VIII		PLS		Engineer VI		Engineer V		Engineer III		Engineer II		Technician Level III		Survey Crew		Clerical Level II		Totals		
	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	\$/HR
<b>Preliminary Design Meetings</b>																					
413 Meeting (Client)	2	\$ 438		\$ -		\$ -	24	\$ 3,792		\$ -		\$ -		\$ -		\$ -		\$ -	26	\$ 4,230	\$ 163
413 Meeting (Planning and Zoning)		\$ -		\$ -		\$ -	12	\$ 1,896		\$ -		\$ -		\$ -		\$ -		\$ -	12	\$ 1,896	\$ 158
414 Meeting (Manufacturers)		\$ -		\$ -		\$ -	2	\$ 316		\$ -		\$ -		\$ -		\$ -		\$ -	2	\$ 316	\$ 158
415 Meeting (Minutes/Follow-Up)		\$ -		\$ -		\$ -	2	\$ 316		\$ -		\$ -		\$ -		\$ -		\$ -	2	\$ 316	\$ 158
418 Meeting (TAI Project Team)	2	\$ 438		\$ -	1	\$ 183	2	\$ 316		\$ -		\$ -	2	\$ 250		\$ -		\$ -	7	\$ 1,187	\$ 170
Subtotals	4	\$ 876	0	\$ -	1	\$ 183	42	\$ 6,636	0	\$ -	0	\$ -	2	\$ 250	0	\$ -	0	\$ -	49	\$ 7,945	\$ 162
<b>Preliminary Engineering and Design</b>																					
503 Data Analysis (As-Built Review)		\$ -		\$ -	1	\$ 183	8	\$ 1,264		\$ -		\$ -	4	\$ 500		\$ -		\$ -	13	\$ 1,947	\$ 150
503 Existing MWRDGC Permits Review		\$ -		\$ -		\$ -	8	\$ 1,264		\$ -		\$ -		\$ -		\$ -		\$ -	8	\$ 1,264	\$ 158
536 Soils Analysis		\$ -		\$ -		\$ -	2	\$ 316		\$ -		\$ -		\$ -		\$ -		\$ -	2	\$ 316	\$ 158
539 Utility Coordination		\$ -		\$ -		\$ -	1	\$ 158		\$ -		\$ -	1	\$ 125		\$ -		\$ -	2	\$ 283	\$ 142
709 Drafting/Existing Topo Information		\$ -		\$ -	1	\$ 183	1	\$ 158		\$ -		\$ -	24	\$ 3,000		\$ -		\$ -	26	\$ 3,341	\$ 129
717 Drafting/Process Piping		\$ -		\$ -	1	\$ 183	4	\$ 632		\$ -		\$ -	40	\$ 5,000		\$ -		\$ -	45	\$ 5,815	\$ 129
Subtotals	0	\$ -	0	\$ -	3	\$ 549	24	\$ 3,792	0	\$ -	0	\$ -	69	\$ 8,625	0	\$ -	0	\$ -	96	\$ 12,966	\$ 135
<b>Site Visits</b>																					
535 Site Visit	1	\$ 219		\$ -	2	\$ 366	8	\$ 1,264		\$ -		\$ -		\$ -		\$ -		\$ -	11	\$ 1,849	\$ 168
906 Field Surveys		\$ -	8	\$ 1,464		\$ -	2	\$ 316		\$ -		\$ -		\$ -	16	\$ 2,480		\$ -	26	\$ 4,260	\$ 164
Subtotals	1	\$ 219	8	\$ 1,464	2	\$ 366	10	\$ 1,580	0	\$ -	0	\$ -	0	\$ -	16	\$ 2,480	0	\$ -	37	\$ 6,109	\$ 165
<b>50% Design Documents</b>																					
413 Meeting (Client)	2	\$ 438		\$ -		\$ -	2	\$ 316		\$ -		\$ -		\$ -		\$ -		\$ -	4	\$ 754	\$ 189
415 Meeting (Minutes/Follow-Up)		\$ -		\$ -		\$ -	4	\$ 632		\$ -		\$ -		\$ -		\$ -		\$ -	4	\$ 632	\$ 158
421 Research		\$ -		\$ -		\$ -	4	\$ 632		\$ -		\$ -		\$ -		\$ -		\$ -	4	\$ 632	\$ 158
501 Computer Calculations		\$ -		\$ -		\$ -	12	\$ 1,896		\$ -		\$ -		\$ -		\$ -		\$ -	12	\$ 1,896	\$ 158
502 Cost Estimates		\$ -		\$ -		\$ -	12	\$ 1,896		\$ -		\$ -		\$ -		\$ -		\$ -	12	\$ 1,896	\$ 158
505 Design (Process)	2	\$ 438		\$ -		\$ -	16	\$ 2,528		\$ -		\$ -		\$ -		\$ -		\$ -	18	\$ 2,966	\$ 165
526 Permits/IEPA		\$ -		\$ -		\$ -	2	\$ 316	2	\$ 250		\$ -		\$ -		\$ -		\$ -	4	\$ 566	\$ 142
530 Permits/MWRDGC		\$ -		\$ -		\$ -	2	\$ 316	2	\$ 250		\$ -		\$ -		\$ -		\$ -	4	\$ 566	\$ -
537 Specifications		\$ -		\$ -		\$ -	16	\$ 2,528		\$ -		\$ -	48	\$ 6,000		\$ -		\$ -	64	\$ 8,528	\$ 133
717 Drafting/Process Piping		\$ -		\$ -		\$ -	2	\$ 316		\$ -		\$ -	96	\$ 12,000		\$ -		\$ -	98	\$ 12,316	\$ 126
Subtotals	4	\$ 876	0	\$ -	0	\$ -	72	\$ 11,376	4	\$ 500	0	\$ -	144	\$ 18,000	0	\$ -	0	\$ -	224	\$ 30,752	\$ 137
<b>50% Design Submittal</b>																					
420 Quality/Assurance Control Review	1	\$ 219		\$ -		\$ -	2	\$ 316		\$ -		\$ -	4	\$ 500		\$ -		\$ -	7	\$ 1,035	\$ 148
424 Status Report/Review	1	\$ 219		\$ -		\$ -	2	\$ 316		\$ -		\$ -		\$ -		\$ -		\$ -	3	\$ 535	\$ 178
733 Plotting/Printing/Assembly/Submittal		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	4	\$ 500		\$ -		\$ -	4	\$ 500	\$ 125
Subtotals	2	\$ 438	0	\$ -	0	\$ -	4	\$ 632	0	\$ -	0	\$ -	8	\$ 1,000	0	\$ -	0	\$ -	14	\$ 2,070	\$ 148
<b>50% Design Review Meeting</b>																					
413 Meeting (Client)	2	\$ 438		\$ -		\$ -	4	\$ 632		\$ -		\$ -		\$ -		\$ -		\$ -	6	\$ 1,070	\$ 178
736 Revisions Per Client/Agency		\$ -		\$ -		\$ -	4	\$ 632		\$ -		\$ -	20	\$ 2,500		\$ -		\$ -	24	\$ 3,132	\$ 131
Subtotals	2	\$ 438	0	\$ -	0	\$ -	8	\$ 1,264	0	\$ -	0	\$ -	20	\$ 2,500	0	\$ -	0	\$ -	30	\$ 4,202	\$ 140
<b>TOTALS</b>	<b>13</b>	<b>\$ 2,847</b>	<b>8</b>	<b>\$ 1,464</b>	<b>6</b>	<b>\$ 1,098</b>	<b>160</b>	<b>\$ 25,280</b>	<b>4</b>	<b>\$ 500</b>	<b>0</b>	<b>\$ -</b>	<b>243</b>	<b>\$ 30,375</b>	<b>16</b>	<b>\$ 2,480</b>	<b>0</b>	<b>\$ -</b>	<b>450</b>	<b>\$ 64,044</b>	<b>\$ 142</b>
																			Soil Borings:	\$ 10,000	
																			Sub-Consultant Design:		\$ 74,044
																			<b>TOTAL:</b>		<b>\$ 74,044</b>

CLIENT Initial \_\_\_\_\_

TAI Initial \_\_\_\_\_



FINAL DESIGN		Engineer VIII		PLS		Engineer VI		Engineer V		Engineer III		Engineer II		Technician Level III		Survey Crew		Clerical Level II		Totals		
		\$ 219		\$ 183		\$ 183		\$ 158		\$ 125		\$ 113		\$ 125		\$ 155		\$ 75		Hours	Cost	\$/HR
		Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost			
<b>Final Design Bi-Weekly Meetings</b>																						
413	Meeting (Client)	2	\$ 438	\$ -	2	\$ 366	8	\$ 1,264	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	12	\$ 2,068	\$ 172
414	Meeting (Manufacturers)	1	\$ 219	\$ -	\$ -	\$ -	1	\$ 158	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2	\$ 377	\$ 189
415	Meeting (Minutes/Follow-Up)	\$ -	\$ -	\$ -	\$ -	2	\$ 316	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2	\$ 316	\$ 158
417	Meeting (Public)	2	\$ 438	\$ -	\$ -	2	\$ 316	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	4	\$ 754	\$ 189
418	Meeting (TAI Project Team)	1	\$ 219	\$ -	1	\$ 183	1	\$ 158	\$ -	\$ -	\$ -	1	\$ 125	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	4	\$ 685	\$ 171
Subtotals		6	\$ 1,314	0	\$ -	3	\$ 549	14	\$ 2,212	0	\$ -	0	\$ -	1	\$ 125	0	\$ -	0	\$ -	24	\$ 4,200	\$ 175
<b>95% Design</b>																						
501	Computer Calculations	\$ -	\$ -	\$ -	4	\$ 632	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	4	\$ 632	\$ 158
502	Cost Estimates	\$ -	\$ -	\$ -	4	\$ 632	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	4	\$ 632	\$ 158
505	Design (Process)	2	\$ 438	\$ -	4	\$ 732	16	\$ 2,528	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	22	\$ 3,698	\$ 168
506	Design (Grading)	1	\$ 219	\$ -	12	\$ 2,196	4	\$ 632	\$ -	1	\$ 113	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	18	\$ 3,160	\$ 176
510	Design/Sanitary Sewer	2	\$ 438	\$ -	\$ -	8	\$ 1,264	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	10	\$ 1,702	\$ 170
512	Design/Structural	2	\$ 438	\$ -	4	\$ 732	4	\$ 632	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	10	\$ 1,802	\$ 180
537	Specifications	\$ -	\$ -	\$ -	4	\$ 732	40	\$ 6,320	40	\$ 5,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	84	\$ 12,052	\$ 143
716	Drafting/General	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	4	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	4	\$ 500	\$ 125
717	Drafting/Process	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	80	\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	80	\$ 10,000	\$ 125
718	Drafting/Civil	\$ -	\$ -	\$ -	2	\$ 366	\$ -	\$ -	\$ -	\$ -	24	\$ 3,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	26	\$ 3,366	\$ 129
719	Drafting/Structural	\$ -	\$ -	\$ -	2	\$ 366	\$ -	\$ -	\$ -	\$ -	8	\$ 1,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	10	\$ 1,366	\$ 137
720	Drafting/Electrical	\$ -	\$ -	\$ -	2	\$ 366	\$ -	\$ -	\$ -	\$ -	8	\$ 1,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	10	\$ 1,366	\$ 137
Subtotals		7	\$ 1,533	0	\$ -	30	\$ 5,490	80	\$ 12,640	40	\$ 5,000	1	\$ 113	124	\$ 15,500	0	\$ -	0	\$ -	282	\$ 40,276	\$ 143
<b>95% Village Review</b>																						
413	Meeting (Client)	2	\$ 438	\$ -	\$ -	2	\$ 316	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	4	\$ 754	\$ 189
415	Meeting (Minutes/Follow-Up)	\$ -	\$ -	\$ -	\$ -	2	\$ 316	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2	\$ 316	\$ 158
424	Status Report/Review	\$ -	\$ -	\$ -	\$ -	2	\$ 316	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2	\$ 316	\$ 158
733	Plotting/Printing/Assembly/Submittal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2	\$ 250	\$ 125
Subtotals		2	\$ 438	0	\$ -	0	\$ -	6	\$ 948	0	\$ -	0	\$ -	2	\$ 250	0	\$ -	0	\$ -	10	\$ 1,636	\$ 164
<b>95% Design Review Meeting</b>																						
413	Meeting (Client)	2	\$ 438	\$ -	\$ -	4	\$ 632	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	6	\$ 1,070	\$ 178
415	Meeting (Minutes/Follow-Up)	\$ -	\$ -	\$ -	\$ -	2	\$ 316	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2	\$ 316	\$ 158
736	Revisions Per Client/Agency	2	\$ 438	\$ -	4	\$ 732	4	\$ 632	\$ -	\$ -	16	\$ 2,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	26	\$ 3,802	\$ 146
Subtotals		4	\$ 876	0	\$ -	4	\$ 732	10	\$ 1,580	0	\$ -	0	\$ -	16	\$ 2,000	0	\$ -	0	\$ -	34	\$ 5,188	\$ 153
<b>IEPA, IHPA and MWRDGC Permits</b>																						
526	Permits/IEPA (3.3)	1	\$ 219	\$ -	1	\$ 183	4	\$ 632	4	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	10	\$ 1,534	\$ 153
527	Permits/IHPA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1	\$ 125	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1	\$ 125	\$ 125
530	Permits/MWRDGC	1	\$ 219	\$ -	1	\$ 183	4	\$ 632	4	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	10	\$ 1,534	\$ 153
Subtotals		2	\$ 438	0	\$ -	2	\$ 366	8	\$ 1,264	9	\$ 1,125	0	\$ -	0	\$ -	0	\$ -	0	\$ -	21	\$ 3,193	\$ 152
<b>TOTALS</b>		21	\$ 4,599	0	\$ -	39	\$ 7,137	118	\$ 18,644	49	\$ 6,125	1	\$ 113	143	\$ 17,875	0	\$ -	0	\$ -	371	\$ 54,493	\$ 147
																				Soil Borings:		
																				Sub-Consultant Design:		
																				<b>TOTAL:</b>		\$ 54,493

IEPA Loans		Engineer VIII		PLS		Engineer VI		Engineer V		Engineer III		Engineer II		Technician Level III		Survey Crew		Clerical Level II		Totals		
		\$ 219		\$ 183		\$ 183		\$ 158		\$ 125		\$ 113		\$ 125		\$ 155		\$ 75		Hours	Cost	\$/HR
		Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost			
<b>IEPA Loan Application and Administration</b>																						
417	Meeting (Public)	\$ -	\$ -	\$ -	2	\$ 316	4	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	6	\$ 816	\$ 136
421	Research	\$ -	\$ -	\$ -	2	\$ 316	4	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	6	\$ 816	\$ 136
517	Financing/Grants & Loans	\$ -	\$ -	\$ -	16	\$ 2,528	32	\$ 4,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	48	\$ 6,528	\$ 136
Subtotals		0	\$ -	0	\$ -	0	\$ -	20	\$ 3,160	40	\$ 5,000	0	\$ -	0	\$ -	0	\$ -	0	\$ -	60	\$ 8,160	\$ 136
<b>TOTALS</b>		0	\$ -	0	\$ -	0	\$ -	20	\$ 3,160	40	\$ 5,000	0	\$ -	0	\$ -	0	\$ -	0	\$ -	60	\$ 8,160	\$ 136
																				Soil Borings:		
																				Sub-Consultant Design:		
																				<b>TOTAL:</b>		\$ 8,160

CLIENT Initial \_\_\_\_\_

TAI Initial \_\_\_\_\_

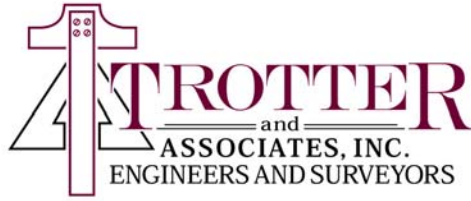


Bidding	Engineer VIII		PLS		Engineer VI		Engineer V		Engineer III		Engineer II		Technician Level III		Survey Crew		Clerical Level II		Totals			
	\$ 219		\$ 183		\$ 183		\$ 158		\$ 125		\$ 113		\$ 125		\$ 155		\$ 75		Hours	Cost	\$/HR	
	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	\$/HR	
<b>Advertisement for Bid</b>																						
808	Bidding/Pre-Bid Activities	1	\$ 219	\$ -	\$ -	4	\$ 632	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	5	\$ 851	\$ 170	
Subtotals		1	\$ 219	0	\$ -	0	\$ -	4	\$ 632	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	5	\$ 851	\$ 170
<b>Pre-Bid Meeting</b>																						
808	Bidding/Pre-Bid Activities	1	\$ 219	\$ -	\$ -	4	\$ 632	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	5	\$ 851	\$ 170	
Subtotals		1	\$ 219	0	\$ -	0	\$ -	4	\$ 632	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	5	\$ 851	\$ 170
<b>Addendums to Bid</b>																						
803	Bidding/Addendum	1	\$ 219	\$ -	4	\$ 732	16	\$ 2,528	\$ -	\$ -	16	\$ 2,000	\$ -	\$ -	\$ -	\$ -	\$ -	37	\$ 5,479	\$ 148		
Subtotals		1	\$ 219	0	\$ -	4	\$ 732	16	\$ 2,528	0	\$ -	0	\$ -	16	\$ 2,000	0	\$ -	0	\$ -	37	\$ 5,479	\$ 148
<b>Bid Opening</b>																						
801	Bid Opening	2	\$ 438	\$ -	\$ -	2	\$ 316	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	4	\$ 754	\$ 189		
802	Bid Tabulation/Review		\$ -	\$ -	\$ -	2	\$ 316	\$ -	2	\$ 226	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	4	\$ 542	\$ 136		
Subtotals		2	\$ 438	0	\$ -	0	\$ -	4	\$ 632	0	\$ -	2	\$ 226	0	\$ -	0	\$ -	0	\$ -	8	\$ 1,296	\$ 162
<b>Contract Documentation</b>																						
700	Plotting/Printing/Assembly/Submittal		\$ -	\$ -	\$ -	2	\$ 316	\$ -	2	\$ 226	2	\$ 250	\$ -	4	\$ 300	10	\$ 1,092	\$ 109				
805	Bidding/Contracts		\$ -	\$ -	\$ -	4	\$ 632	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	4	\$ 632	\$ 158		
Subtotals		0	\$ -	0	\$ -	0	\$ -	6	\$ 948	0	\$ -	2	\$ 226	2	\$ 250	0	\$ -	4	\$ 300	14	\$ 1,724	\$ 123
<b>TOTALS</b>		<b>5</b>	<b>\$ 1,095</b>	<b>0</b>	<b>\$ -</b>	<b>4</b>	<b>\$ 732</b>	<b>34</b>	<b>\$ 5,372</b>	<b>0</b>	<b>\$ -</b>	<b>4</b>	<b>\$ 452</b>	<b>18</b>	<b>\$ 2,250</b>	<b>0</b>	<b>\$ -</b>	<b>4</b>	<b>\$ 300</b>	<b>69</b>	<b>\$ 10,201</b>	<b>\$ 148</b>
																				Soil Borings:		
																				Sub-Consultant Design:		
																				<b>TOTAL:</b>		<b>\$ 10,201</b>

Construction	Engineer VIII		PLS		Engineer VI		Engineer V		Engineer III		Engineer II		Technician Level III		Survey Crew		Clerical Level II		Totals			
	\$ 219		\$ 183		\$ 183		\$ 158		\$ 125		\$ 113		\$ 125		\$ 155		\$ 75		Hours	Cost	\$/HR	
	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	\$/HR	
<b>Construction Engineering Services</b>																						
809	Change Orders		\$ -	\$ -	\$ -	4	\$ 632	\$ -	4	\$ 452	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	8	\$ 1,084	\$ 136		
811	Construction Admin/Management		\$ -	\$ -	\$ -	12	\$ 1,896	\$ -	42	\$ 4,746	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	54	\$ 6,642	\$ 123		
816	Final Papers		\$ -	\$ -	\$ -	4	\$ 632	\$ -	4	\$ 452	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	8	\$ 1,084	\$ 136		
818	Pre-Construction Meeting	1	\$ 219	\$ -	\$ -	4	\$ 632	\$ -	6	\$ 678	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	11	\$ 1,529	\$ 139		
818	Bi-Weekly Progress Meetings	1	\$ 219	\$ -	\$ -	12	\$ 1,896	\$ -	48	\$ 5,424	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	61	\$ 7,539	\$ 124		
819	Pay Estimates		\$ -	\$ -	\$ -	1	\$ 158	\$ -	5	\$ 565	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	6	\$ 723	\$ 121		
820	Payment Approvals		\$ -	\$ -	\$ -	4	\$ 632	\$ -	2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	4	\$ 632	\$ 158		
822	Plant Staff Training		\$ -	\$ -	\$ -	2	\$ 316	\$ -	2	\$ 226	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	4	\$ 542	\$ 136		
823	Project Documentation		\$ -	\$ -	\$ -	4	\$ 632	\$ -	16	\$ 1,808	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	20	\$ 2,440	\$ 122		
824	Punchlist Inspection		\$ -	\$ -	\$ -	2	\$ 316	\$ -	10	\$ 1,130	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	12	\$ 1,446	\$ 121		
825	Record Drawings		\$ -	\$ -	\$ -	2	\$ 316	\$ -	10	\$ 1,130	24	\$ 3,000	\$ -	\$ -	\$ -	\$ -	\$ -	36	\$ 4,446	\$ 124		
826	Resident Engineering		\$ -	\$ -	\$ -	24	\$ 3,792	\$ -	288	\$ 32,544	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	312	\$ 36,336	\$ 116		
827	Review O&M Manuals		\$ -	\$ -	\$ -	4	\$ 632	\$ -	8	\$ 904	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	12	\$ 1,536	\$ 128		
828	Shop Drawings		\$ -	\$ -	\$ -	4	\$ 632	\$ -	36	\$ 4,068	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	40	\$ 4,700	\$ 118		
829	Start-Up		\$ -	\$ -	\$ -	4	\$ 632	\$ -	4	\$ 452	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	8	\$ 1,084	\$ 136		
<b>TOTALS</b>		<b>2</b>	<b>\$ 438</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>87</b>	<b>\$ 13,746</b>	<b>0</b>	<b>\$ -</b>	<b>483</b>	<b>\$ 54,579</b>	<b>24</b>	<b>\$ 3,000</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>596</b>	<b>\$ 71,763</b>	<b>\$ 120</b>
																				Soil Borings:		
																				Sub-Consultant Design:		
																				<b>TOTAL:</b>		<b>\$ 71,763</b>

CLIENT Initial \_\_\_\_\_

TAI Initial \_\_\_\_\_



**EXHIBIT F  
SUBCONSULTANT AGREEMENT**

An amount equal to the cumulative hours charged to the Project by each class of ENGINEER's employees times Hourly Rates for each applicable billing class for all services performed on the Project, plus Reimbursable Expenses and ENGINEER's Consultant's charges, if any. ENGINEER's Reimbursable Expenses Schedule and Hourly Rates are listed within the Master Agreement. The total compensation for services will not exceed **\$XXXXX00** based on the following distribution of compensation:

Preliminary Design Phase	\$XXXXXX.00
Final Design Phase	\$XXXXXX.00
Bidding Phase	\$XXXXXX.00

For purposes of expediency, ENGINEER and CLIENT agree that an executed electronic version of this Work Order shall suffice. The original of this Work Order shall be returned to ENGINEER after execution.

CLIENT:

ENGINEER:

VILLAGE OF

Roselle

TROTTER AND ASSOCIATES, INC.

SIGNED:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

TITLE

\_\_\_\_\_

TITLE

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