



REVISED August 5, 2020

Mr. Jeff Allred  
Eastern Municipal Water District  
P.O. Box 8300  
2270 Trumble Road  
Perris, California 92572

RE: Proposal for Engineering Services  
Eastern Municipal Water District - Fire Alarm/Fire Suppression Upgrade  
Perris, CA  
IMEG# P2020-118

Dear Jeff:

Thank you for the opportunity to submit a Proposal for fire alarm, fire suppression engineering and associated architectural services for the Eastern Municipal Water District main campus facility in Perris, CA. The fire alarm design will include all buildings on site (A through F) which is approximately 188,000-sf. It will be based on the manual system with partial automatic coverage and voice evacuation (Option #2 from study dated 2/11/20). The fire suppression design will be limited to the SCADA room and the main data room including adjacent storage rooms which is approximately a total of 7,500-sf.

### **DESIGN PHASE SERVICES**

1. Design of mechanical systems including:
  - a. Fire suppression systems (SCADA & DATA room):
    - 1) Preliminary Design
      - a) Evaluate envelope of existing spaces via leak test and visual observations.
      - b) Evaluate feasibility of a VESDA (Very Early System Detection Alarm) system, EPSMS (Emergency Power Shutdown Management System), and nitrogen purge systems.
      - c) Develop at least three design alternatives for replacement of fire suppression systems.
      - d) Assess how to modify the existing water-based fire protection systems serving SCADA and the main data room.
      - e) Develop initial rough order of magnitude (ROM) cost estimate for design alternatives to assist in evaluation of options.

- f) Issue findings in Preliminary Design Report.
- 2) Final Design
  - a) Space envelope leak sealing design if space does not adequately hold pressure based on Schematic Design test.
  - b) Clean agent system design based on selected Schematic Design alternative.
  - c) VESDA, EPSMS, and nitrogen purge system design if determined feasible during Schematic Design.
  - d) Modify existing water-based fire protection system to be properly zoned pre-action systems serving SCADA and the main data room.
  - e) Hydraulic calculations.
  - f) Seismic bracing.
  - g) Integrate pre-action and fire suppression systems into new fire alarm system.
  - h) This scope assumes adequate water supply and pressure are available to the site. If not, additional services will be required.
- 2. Design of electrical systems including:
  - a. Fire alarm and power systems:
    - 1) Final Design
      - a) Replacement of existing fire alarm system with new manual system with partial automatic coverage.
      - b) Integration of new pre-action and fire suppression systems.
      - c) Integration of any required existing HVAC system and fire alarm system interlocks.
      - d) Voltage drop calculations.
      - e) Voice evacuation system.
      - f) Power system modifications to support new fire alarm design.
- 3. General field verification of architectural floor plans and update CAD plans where discrepancies are found. Comprehensive detailed measurements of all spaces in project area will be considered additional service.
- 4. Prepare applicable fire suppression and fire alarm specifications.
- 5. Prepare contract documents that are suitable for pricing and construction purposes.
- 6. Deliverables will include the following:
  - a. Preliminary Design Report (fire suppression only).
  - b. 50% CD design package (drawings, specs, cost estimate)
  - c. 90% CD design package (drawings, specs, cost estimate)
  - d. Bid document package (one set of mylar drawings, specs)
  - e. Leak sealing documents will only be submitted for 90% design package and Bid document package.



7. Project design meetings:
  - a. Participate in approximately five project meetings with EMWD as required.
8. All site surveys will occur after normal work hours or on weekends.
9. OPTIONAL ABATEMENT SERVICES: Coordinate with asbestos survey firm to identify locations of required testing. Anticipated to be two days of on-site coordination.

### **BIDDING PHASE SERVICES**

1. Respond to contractor questions.
2. Prepare addenda information as required.

### **ASSUMPTIONS**

1. CAD files of the existing architectural, structural, mechanical, electrical, fire alarm, and fire protection systems, which may not accurately represent the existing conditions, will be provided to IMEG.
2. Documents prepared by the Engineer will be prepared based upon reasonable assumptions derived from existing information provided by the Owner and from limited observation of accessible and visible existing conditions by the Engineer without the benefit of extensive field measurements and investigation prohibited by expense and inconvenience to the Owner. It is understood and agreed that unforeseen conditions uncovered during the progress of the project may require changes in the project, resulting in additional cost and delay.
3. Existing base building systems are code compliant and have adequate capacity to support the project requirements. The design for base building system modifications, replacements or new installations to support the project will be considered an additional service.
4. Where existing systems are to be revised and reused, pre-testing documentation of system capabilities in the area of work will be provided to IMEG, as requested, prior to the start of the Construction Document phase. The pre-testing information required may include water flow test data and electrical system loads. If such information is not available, or if the systems have not been documented within the last two years, IMEG will assist the Owner in developing a scope of work that can be provided to a testing firm, who will complete the documentation of the systems. The cost of the testing firm and its documentation of the systems is not included in IMEG's fee.
5. Identification, testing, and/or removal of hazardous materials will be by others.
6. The project will be awarded as a single prime contract for construction. Phased design and/or issue of early documents are not required.
7. The Owner will distribute bidding documents and prepare and administer the contract for construction.



## COMPENSATION

We propose to provide the services described above for a fixed fee of **\$128,387.16**.

Base Services: \$123,859.00, Optional Abatement Services: \$4,528.16

## PROJECT EXPENSES

Travel and printing expenses **are** included in the above fee.

## ADDITIONAL SERVICES

IMEG can include the following as additional services. Additional services will be performed on a time and material basis using IMEG's standard hourly rates in effect at the time the service is performed, or for a negotiated fee, and only after approved in writing.

1. Audit or field takeoff of existing or new furniture, fixtures, and equipment (FF&E) and associated utilities.
2. Invasive field takeoff to determine existing conditions that are not readily accessible or visible.
3. Technology systems design of any kind.
4. Structural design of any kind.
5. Acoustical evaluation, design, or analysis of any kind.
6. Lightning protection system evaluation and design.
7. Development of an arc flash hazard analysis or modifications to an existing arc flash analysis for the facility.
8. Life cycle cost analysis.
9. ASHRAE 90.1 Energy Standards confirmation or building modeling.
10. Assist in compliance with ASHRAE Standard 188-2015 Legionellosis: Risk Management for Building Water Systems.
11. LEED criteria evaluation, energy modeling, calculation, justification, and documentation.
12. Assistance with grants and other related funding applications.
13. Revising equipment layout and connections, and floor plan modifications, after IMEG's construction drawings and specifications are complete.
14. Value engineering or negotiating construction cost/scope with contractors and related document revisions after documents are complete.
15. Construction administration services.

## GENERAL

The attached Terms and Conditions dated April 10, 2020 are made a part of this Proposal. This Proposal is valid for 45 days from the date of this offer.



We will begin our services following acceptance of this Proposal for Engineering Services. We look forward to working with you and your staff on this project and appreciate this opportunity to be of service. Acceptance may be conveyed via email to the address listed below or by signing this offer and returning it to our office.

Sincerely,

IMEG CORP.



Eric M. DeSplinter, PE, LEED AP BD+C  
Associate Principal/Operations Manager  
Eric.M.DeSplinter@imegcorp.com



Kerry R. Parker, LEED AP BD+C  
Managing Principal / Client Executive

EMD/KRP/slh

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**EASTERN MUNICIPAL WATER DISTRICT**

Accepted:

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Signature

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Title

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Date



## TERMS AND CONDITIONS

**Standard of Care:** Services provided by IMEG Corp. (hereinafter referred to as "the Engineer") under this Agreement will be performed in accordance with generally accepted professional practices in a manner consistent with the level of care and skill ordinarily exercised by members of the same profession currently practicing under similar circumstances in the same or similar location.

**Client Responsibilities:** IMEG shall be entitled to rely on the accuracy of documentation presented to it by Client. In the event of updates or changes to any documentation provided to IMEG in furtherance of its services, the Client is responsible for advising IMEG personnel of such updates or changes in writing.

**Additional Services:** When additional services beyond the defined scope of work are requested, an amendment or change order will be prepared by the Engineer and approved by the Client prior to commencing work. Client's approval by email or payment of proposed additional services shall be deemed binding. Additional services shall be performed on a time and material basis or for a negotiated fee.

**Compensation:** Services provided by the Engineer on a time and material basis shall be performed in accordance with the Engineer's current fiscal year Standard Hourly Rate Schedule in effect at the time of performance. This schedule is updated yearly and is available upon request.

**Performance:** Engineer has multiple offices and has professional service agreements for additional engineering and production assistance. The Engineer may use any office or professional service in the completion of services required for the Project. Engineer shall perform work pursuant to an agreed-upon schedule and consistent with the orderly progress inherent in the Engineer's Standard of Care. Work performed in the States of New York or North Carolina may be performed by VPH Engineering Services, P.C. utilizing Engineer's processes and standards.

**Billing/Payment:** The Client agrees to pay the Engineer for all services performed and all costs incurred. Invoices for the Engineer's services shall be submitted either upon completion of such services or on a monthly basis. Invoices shall be due and payable within 30 days of invoice date (direct) or 15 days from payment by Owner (consultant). Client shall notify Engineer of any objections to the invoice within five working days of receipt and agrees to pursue, in good faith, all payments owed to Engineer for services rendered. Payment of any invoice indicates Client's acceptance of this Agreement, these Terms & Conditions, and satisfaction with Engineer's services. Payment of invoices is in no case subject to unilateral discounting, back-charges, or set-offs by the Client, and payment is due regardless of suspension or termination of this Agreement by either party. Accounts unpaid 60 days after the invoice date may be subject to a monthly service charge of 1.5% (or the maximum legal rate) on the unpaid balance. In the event any portion of an account remains unpaid 120 days after the billing, the Engineer may institute collection action and the Client shall pay all costs of collection, including reasonable attorney's fees.

**Indemnification:** The Client agrees, to the fullest extent permitted by law, to indemnify and hold harmless the Engineer, its directors, employees and agents against claims, damages, liabilities and costs arising from and in proportion to the negligent acts or failure to act of Client and its directors, employees and agents in the performance of services under this Agreement on a comparative basis of fault. The Client shall not be obligated to indemnify the Engineer and its directors, employee and agents for their own negligence or the negligence of others. The Engineer agrees, to the fullest extent permitted by law, to indemnify and hold harmless the Client, its directors, employees and agents against claims, damages, liabilities and costs arising from and in proportion to the negligent acts or failure to act of Engineer and its directors, employees and agents in the performance of services under this Agreement on a comparative basis of fault. The Engineer shall not be obligated to indemnify the Client and its directors, employee and agents for their own negligence or the negligence of others. The other provisions of this Agreement notwithstanding, in the event of any claim within the purview of the indemnification provisions of this section, each indemnitee shall control its defense, and at the time of claim resolution each indemnitor shall provide reimbursement for any reasonable defense cost, recoverable by law, caused by any negligence or other fault by or attributable to each indemnitor as determined by a competent trier of fact. As such, the parties recognize and expressly acknowledge that the duty to defend is not applicable to this Agreement and wholly separate and distinct from the duty to indemnify and hold harmless as set forth in this section.

**Insurance:** IMEG shall obtain and maintain the following insurance coverages: Commercial General Liability, Automobile Liability, Umbrella/Excess Liability, Workers Compensation/Employer's Liability, and Professional Liability. Certificates of insurance will be provided to the Client upon request. When stipulated by the Parties, Commercial General Liability, Automobile Liability, Umbrella/Excess Liability, Workers Compensation/Employer's Liability shall be written or endorsed to include named additional insureds, primary/non-contributory coverage, and other coverages subject to all terms, exclusions and conditions of the policies and any limitations as to coverage amounts as agreed upon by the Parties.

**Certifications, Guarantees and Warranties:** The Engineer shall not be required to execute any document or make any promise that would result in the Engineer certifying, guaranteeing or warranting the existence of any conditions.

**Assignment:** Neither party to this Agreement shall transfer, sublet or assign any rights or duties under or interest in this Agreement, including, but not limited to, monies that are due or monies that may be due, without the prior written consent of the other party, which shall not be unreasonably withheld. Subcontracting to subconsultants, normally contemplated by the Engineer as a generally accepted business practice, shall not be considered an assignment for purposes of this Agreement.

**Dispute Resolution:** Any claims or disputes between the Client and the Engineer arising out of the services to be provided by the Engineer or out of this Agreement shall be submitted to non-binding mediation. The Client and the Engineer agree to include a similar mediation agreement with all contractors, subconsultants, subcontractors, suppliers and fabricators, providing for mediation as the primary method of dispute resolution among all parties. The laws of the State where the project is located govern the validity of this Agreement, its interpretation and performance. Any litigation arising in any way from this Agreement shall be brought in the courts of that State.

**Construction Means and Methods:** The Engineer shall not be responsible for, nor have control over or charge of, construction means, methods, sequences, techniques, or procedures, or for any health or safety precautions. Neither Client nor Engineer shall hold the other responsible for damages or delays in performance caused by acts of God, strikes, walkouts, accidents, Government acts, or other events beyond the control of the Client's or Engineer's directors, employees, agents, or consultants.

**Construction Observation:** When the Engineer does not explicitly provide construction observation services within its written scope of work, it is agreed that the professional services of the Engineer do not extend to or include the review or site observation of the contractor's work, performance, or pay request approval. During construction, the Client assumes the role of the engineer and will hold harmless the Engineer for the contractor's performance or the failure of the contractor's work to conform to the design intent and the contract documents.

**Project Signs:** Project signs displayed at the construction site shall include "IMEG Corp." as the Engineer. Articles for publication regarding this project shall acknowledge IMEG as the Civil, Structural, Mechanical, Electrical and/or Technology Engineer, as applicable.

**Adjustments, Changes or Additions:** It is understood that adjustments, changes, or additions may be necessary during construction. A contingency fund shall be maintained until construction is completed to pay for field changes, adjustments, or increased scope items. All change order amounts requested by contractors constructing Engineer-designed systems shall be submitted to the Engineer for review prior to being approved by contract holder. The Engineer will not approve amounts requested that are above a normal bid amount for the work involved. In no case will costs be assessed to the Engineer at the discretion of the contractor, the Client, or the Owner without prior agreement and approval of the Engineer. Engineer shall not be responsible for any cost or expense that provides betterment or upgrades or enhances the value of the Project.

**Ownership:** All drawings, specifications, BIM and other work product of the Engineer developed for this Project are instruments of service owned by IMEG. IMEG shall provide Client with a license to use said instruments of service for purposes consistent with successful project completion, including extensions, if mutually agreed. Reuse of any instruments of service of the Engineer by the Client, or others acting for the Client, for any other use without the express written permission



of the Engineer shall be at the Client's risk. Client agrees to defend, indemnify and hold harmless the Engineer for all claims, damages and expenses, including reasonable attorney's fees, arising out of unauthorized use of IMEG's instruments of service.

**Electronic Files:** The Client hereby grants permission for the Engineer to use electronic background information produced by the Client in the completion of the project. The Client also grants permission to the Engineer to release Engineers' documents (including their backgrounds) electronically to Client, contractors, and vendors as required in the execution of the project.

**Employment:** For the duration of this contract, plus six (6) months from the date of final payment received, neither the Engineer nor Client, nor their respective agents, will offer employment or contact any person for such purposes who is or was employed by Engineer, Client or their agents for the period of performance of this contract.

**Termination:** The Client or Engineer may, after giving seven (7) days written notice, terminate this agreement and the Engineer shall be paid for services provided up to the termination notice date, including reimbursable expenses due plus termination expenses. Termination expenses are defined as reimbursable expenses directly attributed to the termination. Until said reimbursable expenses are paid, Engineer shall not provide any outstanding instruments of services or any other deliverable generated under this Agreement.

**Survivability:** In the event any provisions of this agreement shall be held to be invalid and unenforceable, the remaining provisions shall be valid and binding upon the parties. One or more waivers by either party of any provision, term, condition or covenant shall not be construed by the other party as a waiver of a subsequent breach of the same by the other party. Additionally, there shall be no legal presumption against the drafter of this Agreement in the event of a dispute as to the enforceability and/or interpretation of this Agreement.

**Limitation of Liability:** It is agreed that the Maximum Aggregate Liability of Engineer arising out of or related to this Agreement and for all work performed on this project, whether based in contract or tort, in law or equity or for negligent acts, errors, or omissions, and all claims, losses, costs, damages, cost of defense, or expenses from any cause, including Client, Contractors, and Attorney fees, will be limited to the greater of the compensation actually paid to Engineer for all work performed under this Agreement or \$25,000. This limitation of liability has been agreed upon after Client and Engineer discussed the risks and rewards associated with the Project, as well as the provision of the services within both the obligations of this Agreement and the associated compensation. Upon written request by Client, the parties may negotiate in good faith and mutually agree, by way of a written Change Order or Amendment, to increase the amount of this liability limitation. As used in this section "Engineer" includes all of IMEG's agents, affiliates, subconsultants and subcontractors, and their respective partners, officers, directors, shareholders and employees. The limitation of liability established in this section shall survive the expiration or termination of this Agreement.

**Risk Allocation:** IMEG's liability to the Client for injury or damage to persons or property arising out of work performed for the Client and for which liability may be found to rest upon IMEG, other than for professional errors, omissions or negligence, will be limited to IMEG's general liability insurance coverage of \$1,000,000.

**Hazardous Environmental Conditions:** Unless expressly stated in writing, IMEG does not provide assessments of the existence or presence of any hazardous or other environmental conditions or environmental contaminants or materials ("Hazardous Environmental Conditions"). Client shall inform IMEG of any and all known Hazardous Environmental Conditions before services are provided involving or affecting them. If unknown Hazardous Environmental Conditions are encountered, IMEG will notify the Client and, as appropriate, government officials of such conditions. IMEG may, without liability or reduction or delay of compensation due, proceed to suspend services on the affected portion of the project until Client takes appropriate action to abate, remediate, or remove the Hazardous Environmental Condition. IMEG shall not be considered an "arranger", "operator", "generator", "transporter", "owner", or "responsible party" of or with respect to contaminants, materials or substances. IMEG shall assume no liability whatsoever for correction of any Hazardous Environmental Conditions; and shall be entitled to payment or reimbursement of expenses, costs or damages occasioned by undisclosed Hazardous Environmental Conditions.

**Buried Utilities:** Client shall be responsible for designating the location of all utility lines and subterranean structures within the property lines of the Project. Client agrees to waive any claim against IMEG and to defend, indemnify and hold IMEG harmless for any claim or liability for injury or loss arising from IMEG or other persons encountering utilities or other manmade objects that were not brought to IMEG's attention or which were not properly located on the plans furnished to IMEG. Client further agrees to compensate IMEG for any and all time, costs and expenses incurred by IMEG in defense of any such claim, in accordance with IMEG's then effective standard hourly fee schedule and expense reimbursement policy.

**Boundary Conflict:** Boundary determinations occasionally disclose unseen or unknown conflicts between the record documents and the location of physical improvements. Upon discovery of any latent or patent ambiguity, uncertainty, or dispute disclosed by the records or by placement of the boundaries on the ground, work on the boundary survey will be suspended and you will be immediately notified. IMEG will present alternatives for possible resolution and any additional work required to achieve resolution will be negotiated. If you should choose to forego resolution, all work completed to date will be invoiced for payment and the project file will be archived by IMEG for future resolution. If you choose resolution, IMEG will act as your mediator, consultant and expert until satisfactory resolution is achieved. Upon resolution, this initial agreement will be reinstated and completed in accordance with its initial terms subject to potential interim rate increases.

**Force Majeure:** Except as hereinafter provided, no delay or failure in performance by Client or IMEG shall constitute a default under this Agreement if and to the extent the delay or failure is caused by Force Majeure. Unless the Force Majeure frustrates performance of the Services, Force Majeure shall not operate to excuse, but only to delay, performance of the Services. If Services are delayed by reason of Force Majeure, IMEG promptly shall notify Client. Once the Force Majeure event ceases, IMEG shall resume performance of the Services as soon as possible. "Force Majeure" means any event beyond the control of the Party claiming inability to perform its obligations and which such Party is unable to prevent by the exercise of reasonable diligence, including, without limitation, the combined action of workers, strikes, embargoes, fire, acts of terrorism, explosions and other catastrophes, casualties, a moratorium on construction, delays in transportation, governmental delays in granting permits or approvals, changes in laws, expropriation or condemnation of property, governmental actions, unavailability or shortages of materials, national emergency, war, acts of terrorism, cyber-attacks, civil disturbance, floods, unusually severe weather conditions or other acts of God or public enemy. Inability to pay or financial hardship, however, shall not constitute Force Majeure regardless of the cause thereof and whether the reason is outside a Party's control.

**Other Terms and Conditions:** The Terms and Conditions set forth in this Agreement shall not be superseded by any additional or alternate terms and conditions presented by the Client or any other Party whether contained in invoices or in any other form unless mutually executed, in writing, by Engineer and Client.

#### **IMEG Equal Employment Opportunity / Rights Under Federal Labor Laws**

1. The equal opportunity clause of 41 CFR § 60-1.4(a) is hereby incorporated by reference as if fully set forth herein.
2. The equal opportunity clause of 41 CFR § 60-741.5(a) is hereby incorporated by reference as if fully set forth herein. This contractor and subcontractor shall abide by the requirements of 41 CFR 60-741.5(a). This regulation prohibits discrimination against qualified individuals on the basis of disability, and requires affirmative action by covered prime consultants and subconsultants to employ and advance in employment qualified individuals with disabilities.
3. The equal opportunity clause of 41 CFR § 60-300.5(a) is hereby incorporated by reference as if fully set forth herein. This contractor and subcontractor shall abide by the requirements of 41 CFR 60-300.5(a). This regulation prohibits discrimination against qualified protected veterans, and requires affirmative action by covered prime consultants and subconsultants to employ and advance in employment qualified protected veterans.
4. The employee notice clause of 29 CFR § 471, Appendix A to Subpart A is hereby incorporated by reference as if fully set forth herein.
5. Employer Reports on Employment of Protected Veterans (41 CFR § 61-300.10)
  - a. IMEG agrees to report at least annually, as required by the Secretary of Labor, on:
    - 1) The total number of employees in the workforce of IMEG, by job category and hiring location, and the total number of such employees, by job category and hiring location, who are protected veterans;





- 2) The total number of new employees hired by IMEG during the period covered by the report, and of such employees, the number who are protected veterans; and
  - 3) The maximum number and minimum number of employees of IMEG at each hiring location during the period covered by the report.
  - 4) The term "protected veteran" refers to a veteran who may be classified as a "disabled veteran," recently separated veteran, "active duty wartime or campaign badge veteran," or an "Armed Forces service medal veteran," as defined in 41 CFR 61-300.2.
- b. The above items must be reported by completing the report entitled "Federal Contractor Veterans' Employment Report VETS-4212."
  - c. VETS-4212 Reports must be filed no later than September 30 of each year following a calendar year in which IMEG held a covered contract or subcontract.
  - d. The employment activity report required by paragraphs (a)(2) and (a)(3) of this clause must reflect total new hires and maximum and minimum number of employees during the 12-month period preceding the ending date that IMEG selects for the current employment report required by paragraph (a)(1) of this clause. IMEG may select an ending date:
    - 1) As of the end of any pay period during the period July 1 through August 31 of the year the report is due; or
    - 2) As of December 31, if IMEG has previous written approval from the Equal Employment Opportunity Commission to do so for purposes of submitting the Employer Information Report EEO-1, Standard Form 100 (EEO-1 Report).
  - e. The number of veterans reported according to paragraph (a) above must be based on data known to IMEG when completing their VETS-4212 Reports. IMEG's knowledge of veterans status may be obtained in a variety of ways, including, in response to an invitation to applicants to self-identify in accordance with 41 CFR 60-300.42, voluntary self-disclosures by employees who are protected veterans, or actual knowledge of an employee's veteran status by IMEG. Nothing in this paragraph (e) relieves IMEG from liability for discrimination under 38 U.S.C. 4212.

Rev. 04/10/20



LEVEL OF EFFORT													
	Senior Engineer II	Senior Designer	Designer IV	Virtual Design Technician	Administrative Assistant	Cost/mile	Subconsultant						
<b>FULLY BURDENED BILLING RATE</b> →	\$185.00	\$150.00	\$120.00	\$85.00	\$75.00	\$0.58							
<b>Preliminary Design</b>											<b>50% Design</b>		
Meetings	8	8											
Site Visit	10	10											
Design	8												
Project Management	16												
Report	8				4								
Mileage (miles)						320							
Opinion of Probable Cost	4												
Subconsultant (cost)							14,647.20						
<b>SUBTOTAL - HOURS per Position</b>	54	18	0	0	4	320	512	0	0	0		<b>TOTAL</b>	<b>TOTAL</b>
												908	
<b>SUBTOTAL - LABOR COST per Position:</b>	\$9,990.00	\$2,700.00	\$0.00	\$0.00	\$300.00	\$185.60	\$14,647.20	\$0.00	\$0.00	\$0.00			\$27,822.80
<b>50% Design</b>											<b>90% Design</b>		
Meetings	4	4											
Design	4	16	70	32									
Project Management	16												
Mileage (miles)						160							
Opinion of Probable Cost	4	2	8										
Administrative					8								
Subconsultant (cost)							10,237.60						
<b>SUBTOTAL - HOURS per Position</b>	28	22	78	32	8	160	274	0	0	0		<b>TOTAL HOURS</b>	<b>TOTAL LABOR COST</b>
												602	
<b>SUBTOTAL - LABOR COST per Position:</b>	\$5,180.00	\$3,300.00	\$9,360.00	\$2,720.00	\$600.00	\$92.80	\$10,237.60	\$0.00	\$0.00	\$0.00			\$31,490.40
<b>90% &amp; 100% Design</b>											<b>100% Design</b>		
Meetings	8	8											
Design	8	24	100	45									
Project Management	30												
Mileage (miles)						320							
Opinion of Probable Cost	4	2	8										
Administrative					8								
Subconsultant (cost)							27,515.20						
Optional Abatement Services	24					152							
<b>SUBTOTAL - HOURS per Position</b>	74	34	108	45	8	472	582	0	0	0		<b>TOTAL</b>	<b>TOTAL</b>
												1,323	
<b>SUBTOTAL - LABOR COST per Position:</b>	\$13,690.00	\$5,100.00	\$12,960.00	\$3,825.00	\$600.00	\$273.76	\$27,515.20	\$0.00	\$0.00	\$0.00			\$63,963.96
<b>Bid</b>											<b>Bid</b>		
Respond to RFIs	2	4			1								
Develop Addenda	2	4		2	1								
Project Management	6												
Subconsultant (cost)							1,740						
<b>SUBTOTAL - HOURS per Position</b>	10	8	0	2	2	0	8	0	0	0		<b>TOTAL HOURS</b>	<b>TOTAL LABOR COST</b>
												30	
<b>SUBTOTAL - LABOR COST per Position:</b>	\$1,850.00	\$1,200.00	\$0.00	\$170.00	\$150.00	\$0.00	\$1,740.00	\$0.00	\$0.00	\$0.00			\$5,110.00
<b>TOTAL HOURS</b>	166	82	186	79	22	952	1376	0	0	0		<b>TOTAL HOURS</b>	
												2863	

LEVEL OF EFFORT										
	Senior Engineer II	Senior Designer	Designer IV	Virtual Design Technician	Administrative Assistant	Cost/mile	Subconsultant			
<b>FULLY BURDENED BILLING RATE</b> →	\$185.00	\$150.00	\$120.00	\$85.00	\$75.00	\$0.58				
										2863
<b>LABOR COST PER POSITION:</b>	\$30,710.00	\$12,300.00	\$22,320.00	\$6,715.00	\$1,650.00	\$552.16	\$54,140.00	\$0.00	\$0.00	\$0.00
										\$128,387.16
										\$128,387.16