



City of Galveston

CAPITAL PROJECTS STAFF REPORT

January 11, 2018

To: Brian Maxwell, City Manager
Hon. Mayor and City Council Members

From: Ross E. Blacketter, P.E., Director of Capital Projects

RE: Consider approval of a Professional Services Agreement with LJA Engineering in an amount not to exceed \$84,800.00 for engineering services for the streetlights damaged by Hurricane Harvey. Authorizing the City Manager to execute all necessary documents upon final approval by the City Attorney.

I. Background

Hurricane Harvey made initial landfall along the Texas coast on August 25, 2017 resulting in heavy rainfall, storm force winds, and storm surge resulting in damage to street lighting fixtures, electrical components, conduit, and equipment in the Broadway corridor from 6th Street to 59th Street.

II. Current Situation

- A. Following Hurricane Harvey, the majority of the streetlights along Broadway are no longer functional.
- B. A project worksheet was submitted to FEMA for the repair of the underground conduit and wiring that supplies power to these streetlights.
- C. Since the underground conduit does not allow for direct inspection, FEMA directed the City to obtain an evaluation from a licensed electrical engineer regarding the extent and nature of damages to the conduits and wiring.
- D. A proposal was requested from LJA Engineering to investigate and determine the cause of the streetlight failures, and to provide a detailed engineering report recommending solutions for repairs.
- E. LJA provided a proposal for engineering services to investigate and develop a detailed report on the damages to the streetlights in the Broadway corridor from 6th Street to 59th Street for an amount not to exceed \$84,800.00





City of Galveston

CAPITAL PROJECTS STAFF REPORT

III. Issues

- A. In order to determine the actual repairs needed to restore the streetlights to their pre-disaster design, function, and capacity a licensed electrical engineer is needed to evaluate and document the condition, needed repairs, and provide recommendations.
- B. The evaluation by an electrical engineer is required by FEMA in order for the City to receive reimbursement for repairs to these streetlights.

IV. Alternatives in order of priority

- A. Approve the proposal from LJA for a not to exceed amount of \$84,800.00
- B. Do not approve the proposal from LJA.

V. Recommendation

Approve a Professional Services Agreement with LJA Engineering in an amount not to exceed \$84,800.00 for engineering services for the streetlights damaged by Hurricane Harvey.

VI. Fiscal Impact Report

| | |
|-----------------|--|
| Requested by: | Ross E. Blacketter, P.E. Director of Capital Projects |
| Funding Source: | Convention Center Surplus Fund |
| Cost | \$ 84,800.00 |

Respectfully Submitted,

Ross E. Blacketter, P.E.
Director of Capital Projects





2929 Briarpark Drive, Suite 600 Houston, Texas 77042
t 713.953.5200 f 713.953.5026 LJA.com TBPE F-1386 TBPLS 10110501

January 10, 2018

PROPOSAL
REVISION 2

City of Galveston, Texas
823 Rosenberg
Galveston, Texas 77550

Attention: Mr. Ross E. Blackketter, P.E.
Director of Capital Projects

Reference: The City of Galveston, Texas
Broadway Boulevard Lighting Problems
Proposal for Engineering Support Services
LJA Proposal No. 18-00025
LJA Project No. B322-1012

Dear Mr. Blackketter:

We at LJA Engineering, Inc. (LJA) are pleased with the opportunity to submit this proposal to the City of Galveston (COG) for a Project involving the street lighting along Broadway Boulevard. Documents have been provided to us that illustrate that a majority of the street lights along Broadway are no longer functional. A majority of these fixture failures occurred as a result of Hurricane Harvey. It is the desire of the COG to retain the services of a professional electrical engineering staff which can ascertain the cause of the fixture failures. This information would be gathered from both field and office investigations. The field investigations will require the support of COG Traffic personnel along with a lift bucket truck to permit us to get up to a spectrum of the fixtures so they can be electrically investigated. This type of support could require multiple days of this type of support. This field collected information along with information gathered from COG records and our LJA office literature searches would be developed into a formal report which can be submitted to the Federal Emergency Management Agency (FEMA). The gist of this report would provide a substantiation to FEMA of the cause of the damage and the predicted cost of remediating the damage. Certainly we will need to obtain or develop information from COG records as to the operational status of all of the Broadway Boulevard street lights immediately prior to Hurricane Harvey. With all of this information we will prepare a draft version of the report including photographs, drawings and collected electrical testing information for review and comment by you and your staff. Subsequent to the receipt of COG comments we would update the report, prepare it as a formal document and submit it to the COG for submittal to FEMA. Comments received from FEMA would subsequently be formally responded to and the report would be revised and again made ready for submittal by the COG to FEMA.

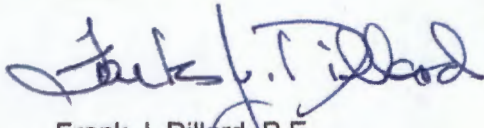
Attached is a proposed Work Breakdown Structure (WBS) that provides a listing of the proposed LJA personnel classifications that will be assigned and available for this Project along with their burdened hourly labor rates and the anticipated number of man-hours that are believed to be required for each WBS task. Also included is an estimated dollar amount to cover Other Direct Costs such as mileage, reproduction, meals while in Galveston for the field investigations, etc. We are proposing this Project to be budgeted by the COG with a not-to-exceed amount of

\$84,800. A copy of the LJA Engineering, Inc. – Midstream Infrastructure - Rate Schedule for this Project is provided as Attachment B.

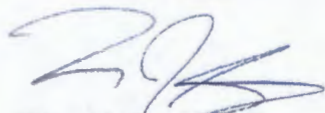
We at LJA are prepared to initiate our activities on this Project upon receipt of a copy of this proposal that has been signed by an authorized representative of the City of Galveston. Also included is a standard copy of an LJA Project Services Agreement (PSA) which also requires execution. Should there be any terms of conditions of this proposal or the PSA document which require modification from the perspective of the City of Galveston please don't hesitate to bring such matters to our attention so that modifications agreeable to both parties can be made.

We know that it is the desire of the COG for this Project to proceed in an expeditious manner so we propose to approach it in this manner. We will start this Project immediately upon receipt of proper authorizations and we will make every available effort to complete our studies, prepare a draft of the FEMA report including the cost estimates within no less than six weeks and no more than eight weeks from the date of authorization to proceed. Certainly should we be lucky enough to find the cause of failure in the early stages of the field investigations the time frame for the Project could be shorter. We have included from our perspective a sufficient amount of field and office time to permit us to develop a firm basis of support of the request for funding from FEMA. We certainly anticipate that FEMA will require substantial support for such a financial claim.

Respectfully submitted,



Frank J. Dillard, P.E.
Electrical Division Manager



Barry J. Gentz, P.E.
Senior Project Engineer

APPROVED FOR
The City of Galveston

By: _____

Name: _____

Title: _____

Date: _____

FJD/sp

Attachments:
PSA Agreement
Work Breakdown Structure



PROFESSIONAL SERVICES AGREEMENT

This Agreement prepared on 1/11/2018 is by and between City of Galveston with address at 823 Rosenberg, Galveston, Texas 77550 ("Client") and LJA Engineering, Inc. ("LJA"), who agree as follows:

Client engages LJA to perform professional services (the "Services") for the compensation set forth in one or more proposals or work authorizations (the "Proposal(s)"). LJA shall be authorized to commence the Services upon execution of the Proposal(s) by the Client. Client and LJA agree that this Agreement, the Proposal(s), and any attachments herein incorporated by reference (the "Agreement") constitute the entire agreement between them.

I. LJA'S RESPONSIBILITIES: LJA shall perform or furnish the Services described in the Proposals, which shall be combined and attached as part of this Agreement. Where the terms or conditions of any Proposal conflict with those of Parts I-III contained herein, the Proposal shall control for the Services performed under that Proposal only.

II. CLIENT'S RESPONSIBILITIES: Client, at its expense, shall do the following in a timely manner so as not to delay the Services:

1. INFORMATION/REPORTS: Furnish LJA with all information, reports, studies, site characterizations, advice, instructions, and similar information in its possession relating to the Project.

2. REPRESENTATIVE / ACCESS: Designate a representative for the Project who shall have the authority to transmit instructions, receive information, interpret and define Client's policies, and make decisions with respect to the Services, and provide LJA safe access to any premises necessary for LJA to provide the Services.

3. DECISIONS: Provide all criteria and full information as to requirements for the Project, obtain (with LJA's assistance, if applicable) necessary approvals and permits, attend Project-related meetings, provide interim reviews on an agreed-upon schedule, make decisions on Project alternatives, and participate in the Project to the extent necessary to allow LJA to perform the Services.

III. COMPENSATION, BILLING, & PAYMENT: Client shall pay LJA for Services as denoted in the applicable Proposal dated January 10, 2018 (Revision 1) wherein the not-to-exceed cost of services rendered shall not exceed \$84,800 with charges being invoiced in accordance with the LJA Engineering, Inc. - Midstream Infrastructure - Rate Schedule provided as Attachment B.

IV. STANDARD TERMS AND CONDITIONS: Attachment A.

The persons signing this Agreement warrant that they have the authority to sign as, or on behalf of, the party for whom they are signing and each of the undersigned parties has caused this Agreement to be duly executed. This Agreement contains a limitation of liability clause and the Client has read and consents to all terms.

APPROVED FOR "CLIENT"
CITY OF GALVESTON

APPROVED FOR "LJA"
LJA ENGINEERING, INC.

By: _____

By: _____

Printed Name: _____

Printed Name: _____

Title: _____

Title: _____

Effective Date: _____

Attachments:
A - Standard Terms and Conditions
B - Standard Rate Schedule

ATTACHMENT A STANDARD TERMS AND CONDITIONS

1. STANDARD OF CARE. Services shall be performed with the professional skill and care ordinarily provided by competent engineers practicing under the same or similar circumstances and professional license. Professional services are not subject to, and LJA cannot provide, any warranty or guarantee, express or implied, including warranties or guarantees contained in any uniform commercial code, work authorization, requisition, or notice, except as provided herein.

2. CHANGE OF SCOPE. The scope of Services set forth in this Agreement is based on facts known at the time of execution of this Agreement, including, if applicable, Client Data (defined below). As the Project progresses, facts discovered, including, but not limited to, site conditions or the existence of differing subsurface or physical conditions, may indicate that the scope, pricing, or other terms must be redefined, and the parties shall reasonably cooperate to equitably adjust the scope, pricing, or terms of this Agreement accordingly. The compensation set forth in this Agreement shall be deemed to be full compensation for all work and materials furnished by LJA whether specifically called for by the Agreement, plans, or specifications, or not, and no additional compensation shall be paid to LJA unless a written extra work order is provided by Client in advance, stating that the work is extra work and designating the additional compensation to be paid for the extra work and additional time for completion (if applicable). Any request for extra work shall be submitted to Client prior to such work being performed, and allowing for sufficient time for such request to be timely reviewed by Client. Approval or disapproval of extra work shall be made by Client within five (5) calendar days from the date of submission by LJA.

3. SAFETY. LJA has established and maintains corporate programs and procedures for the safety of its employees. Unless included as part of the Services, LJA specifically disclaims any authority or responsibility for general job site safety and safety of persons other than LJA employees.

4. DELAYS. The Services shall be performed expeditiously as is prudent considering the ordinary professional skill and care of a competent engineer. Where LJA is prevented from completing any part of the Services within the schedule provided under the Agreement due to delay beyond its reasonable control, the schedule will be extended in an amount of time equal to the time lost due to such delay so long as LJA provides written explanation of the delay to Client. Except with regard to payment of any amounts due LJA from any Services, neither party shall be liable to the other for any delays or failure to act, due to unforeseeable causes reasonably beyond the control of the party claiming such circumstances.

5. TERMINATION/SUSPENSION. Either party may terminate this Agreement upon thirty (30) days written notice to the other party. In the event of termination, Client shall pay LJA for all Services, including profit relating thereto, rendered prior to termination, plus any expenses of termination. In the event either party defaults in its obligations under this Agreement (including Client's obligation to make the payments required hereunder), the non-defaulting party may suspend performance under this Agreement if, after ten (10) days written notice stating its intention to suspend performance under the Agreement, the notified party fails to cure such failure within that time. In the event of a suspension of services, LJA shall have no liability to the Client for delay or damage caused the Client because of such suspension of services. Before resuming services, LJA shall be paid all sums due prior to suspension and any expenses incurred in the interruption and resumption of LJA's services. LJA's fees for the remaining services and the time schedules shall be equitably adjusted. Obligations under this Agreement, which by their nature would continue beyond the suspension or termination of this Agreement (e.g., indemnification), shall survive such suspension or termination.

6. OPINIONS OF CONSTRUCTION COST. Any opinion of construction costs prepared by LJA is supplied for the general guidance of the Client only. Since LJA has no control over competitive bidding or market conditions, LJA cannot guarantee the accuracy of such opinions as compared to contract bids or actual costs to Client.

7. RELATIONSHIP WITH CONTRACTORS / REVIEW. LJA shall serve as Client's professional representative for the Services, and may make recommendations to Client concerning actions relating to Client's contractors, but LJA specifically disclaims any authority to direct or supervise the means, methods, techniques, safety activities, personnel, compliance, sequences, or procedures of construction selected by Client's contractors. For Projects involving construction, Client acknowledges that under generally accepted professional practice, interpretations of construction documents in the field are normally required, and that performance of construction-related services by the design professional for the Project permits errors or omissions to be identified and corrected at comparatively low cost. Client agrees to hold LJA harmless from any claims resulting from performance of construction-related services by persons other than LJA. In fulfilling its duties pursuant to the Agreement, Client permits LJA to elect to subcontract to others certain tasks in its scope of Services provided prior written approval is obtained from Client.

8. INSURANCE. LJA will maintain insurance coverage for Professional Liability, Commercial Liability, Auto, and Workers' Compensation in amounts in accordance with legal and business requirements. Certificates evidencing such coverage will be provided to Client upon request. For Projects involving construction, Client agrees to require its construction contractor, if any, to include LJA as an additional insured on its policies relating to the Project. LJA's coverages referenced above shall, in such case, be excess over any contractor's primary coverage.

9. PROJECTS WITH MULTIPLE CLIENTS. When LJA undertakes a Project for multiple Clients, each Client on the Project is jointly and severally liable for payments for LJA's Services under this Agreement and on the Project. If any Client fails to make timely payment to LJA, and the remaining Clients wish to continue the Project, the remaining Clients will promptly confirm to LJA in writing their wish for LJA to continue the Project and their joint and several obligations shall remain the same. LJA, at its option, may suspend the remaining performance under this Agreement until all past due payments are made, and authorization to proceed and pay from all non-defaulting Clients is received, or continue work on the Project and invoice and collect from the remaining Clients any payment (including damages) of amounts past due and that become due.

10. SITE CONDITIONS. Hazardous, archaeological, paleontological, cultural, biological, or other materials, protected resources, unknown underground facilities, or other conditions ("Conditions") may exist at a site where there is no reason to believe they could or should be present. LJA and Client agree that the discovery of unanticipated Conditions constitutes a changed condition mandating a renegotiation of the scope of Services. LJA will notify Client should unanticipated Conditions be encountered. Client acknowledges and agrees that it retains title to all Conditions existing on the site and shall report to the appropriate public agencies, as required, any Conditions at the site that may present a potential danger to the public health, safety, or the environment. Client shall execute any manifests in connection with avoidance, containment, transportation, storage, or disposal of Conditions resulting from the site. Client waives any claim against LJA for injury or loss arising from such Conditions.

11. INDEMNITY. To the fullest extent permitted by law, LJA shall indemnify Client from and against liability for damage to the extent that the damage is caused by or results from an act of negligence, intentional tort, intellectual property infringement, or failure to pay a subcontractor or supplier committed by LJA, LJA's agent, or another entity over which LJA exercises control. Client shall require its construction contractor, if applicable and to the extent permitted by law, to include LJA as an indemnitee under any indemnification obligation to Client.

12. LIMITATION OF LIABILITY. No employee or agent of LJA shall have individual liability to Client. Client agrees that, to the fullest extent permitted by law, LJA's total

liability to Client for any and all injuries, claims, losses, expenses or damages whatsoever arising out of or in any way related to the Project or this Agreement from any causes including, but not limited to, LJA's negligence, errors, omissions, strict liability, or breach of contract, and whether claimed directly or by way of contribution, shall not exceed the total compensation received by LJA for the relevant work authorization or proposal under this Agreement. If Client desires a limit of liability greater than that provided above, Client and LJA shall include in Part III of this Agreement the amount of such limit and the additional compensation to be paid to LJA for assumption of such additional risk.

13. CONSEQUENTIAL DAMAGES. IN NO EVENT WILL EITHER PARTY BE LIABLE TO THE OTHER FOR CONSEQUENTIAL, INCIDENTAL, PUNITIVE, SPECIAL, OR EXEMPLARY DAMAGES, INCLUDING LOST REVENUES, PROFITS, DELAYS, OR OTHER ECONOMIC LOSS ARISING FROM ANY CAUSE INCLUDING BREACH OF WARRANTY, BREACH OF CONTRACT, TORT, STRICT LIABILITY OR ANY OTHER CAUSE WHATSOEVER, NOTWITHSTANDING ANY PROVISION OF THIS AGREEMENT TO THE CONTRARY. REGARDLESS OF LEGAL THEORY, LJA SHALL BE LIABLE ONLY TO THE EXTENT THAT ANY DAMAGES SPECIFIED HEREIN ARE FOUND BY A FINAL COURT OF COMPETENT JURISDICTION TO HAVE BEEN THE SEVERAL LIABILITY OF LJA. TO THE EXTENT PERMITTED BY LAW, ANY STATUTORY REMEDIES THAT ARE INCONSISTENT WITH THIS PROVISION OF THE AGREEMENT ARE WAIVED.

14. REUSE OF PROJECT DELIVERABLES. Reuse of any documents or other deliverables, including electronic media, pertaining to the Project by Client for any purpose other than that for which such were originally prepared, or alteration of such without the written verification or adaptation by LJA for the specific purpose intended, shall be at the Client's risk. All title blocks and the engineer's seal, if applicable, shall be removed if Client provides deliverables in electronic media to any third party. Client agrees that relevant analyses, findings, and reports provided in electronic media shall also be provided in hard copy and that the hard copy shall govern in the case of a discrepancy between the two versions, and shall be held as the official set of drawings, as signed and sealed. Client shall be afforded a period of thirty (30) days to check the hard copy against the electronic media. In the event that any error or inconsistency is found during that time, LJA shall be advised and the inconsistency shall be corrected at no additional cost to Client. Following the expiration of this notice period, Client shall bear all responsibility for the care, custody, and control of the electronic media. In addition, Client represents that it shall retain the necessary mechanisms to read the electronic media. Client agrees to hold harmless LJA from all claims, damages, and expenses (including reasonable litigation costs) arising out of such reuse or alteration by Client or others acting through Client.

15. CLIENT DATA. Client or any third party designated by Client may provide information, reports,

studies, site characterizations, advice, instructions, and similar information in its possession relating to the Project ("Client Data"). LJA may reasonably and in good faith rely upon the accuracy of Client Data and unless described as part of the Services, LJA is not required to audit, examine, or verify Client Data. However, LJA will not ignore the implications of information furnished to LJA and may make reasonable inquiries if Client Data as furnished appears to be incorrect or incomplete. LJA makes no representations or warranties (express or implied) as the quality, accuracy, usefulness, or completeness of any Services to the extent LJA relies on Client Data. LJA, its affiliates, its officers, directors, and employees shall have no liability whatsoever with respect to the use of unreliable, inaccurate, or incomplete Client Data.

16. ASSIGNMENT/BENEFICIARIES. Except for assignments (a) to entities which control, or are controlled by, the parties hereto or (b) resulting from operation of law, the rights and obligations of this Agreement cannot be assigned by any party without written permission of the other party. With the exception of such assignments, nothing contained in this Agreement, nor the performance of the parties hereunder, is intended to benefit, nor shall inure to the benefit of, any third party, including Client's contractors, if any.

17. AMENDMENT, NO WAIVER, & SEVERABILITY. This Agreement can be amended only by a written instrument signed by the parties. No waiver by either party of any default by the other party in the performance of this Agreement shall invalidate any other section of this Agreement or operate as a waiver of any future default, whether like or different in character. The various terms, provisions, and covenants herein contained shall be deemed to be separate and severable, and the invalidity or unenforceability of any of them shall not affect or impair the validity or enforceability of the remainder.

18. INDEPENDENT PARTIES. Each party is an independent entity and is not a partner, agent, principal, or employee of the other party, unless otherwise agreed to by the parties in writing. Nothing in this Agreement shall restrict or otherwise prohibit either party or their respective affiliates in the conduct of their businesses.

19. STATUTE OF LIMITATION. To the fullest extent permitted by law, the parties agree that the time period for bringing claims under this Agreement shall expire one (1) year after Project completion.

20. STATUTORY TERMS APPLICABLE TO STATE POLITICAL SUBDIVISIONS. As required by Chapter 2270, Government Code, LJA hereby verifies that it does not boycott Israel and will not boycott Israel through the term of this Agreement. For purposes of this verification, "boycott Israel" means refusing to deal with, terminating business activities with, or otherwise taking any action that is intended to penalize, inflict economic harm on, or limit commercial relations specifically with Israel, or with a person or entity doing business in Israel or in an Israeli-controlled territory, but does not include an action made for

ordinary business purposes.

21. DISPUTE RESOLUTION. The parties shall attempt to settle all claims, disputes, and controversies arising out of or in relation to the performance, interpretation, application, or enforcement of this Agreement, including but not limited to breach thereof, by discussion between the parties' senior representatives. If any dispute cannot be resolved in this manner, within five (5) business days, the parties agree to refer such claims, disputes, and controversies to mediation by a mediator mutually agreed to and equally paid for by the parties before, and as a condition precedent to, the initiation of any adjudicative action or proceeding, including arbitration. The mediator shall convene the mediation within ten (10) business days of the request of either party, and the mediation will last at such times and as long as the mediator reasonably believes agreement is probable. The parties agree that an officer of each entity with complete authority to resolve the dispute shall attend the mediation. Notwithstanding the foregoing, prior to or during negotiation or mediation, either party may initiate litigation that would otherwise become barred by a statute of limitation, and LJA may pursue, at any time and without invoking dispute resolution as provided herein, any property liens or other rights it may have to obtain security for the payment of its invoice. In the event any actions are brought to enforce this Agreement, the prevailing party shall be entitled to collect its litigation costs including reasonable attorney's fees from the other party.

22. LITIGATION SUPPORT. LJA will not be obligated to provide expert witness or other litigation support related to its Services, unless expressly agreed in writing. In the event LJA is required to respond to a subpoena, inquiry, or other legal process related to the Services in connection with a proceeding to which LJA is not a party, Client will reimburse LJA for its costs and compensate LJA at its then standard rates for the time it incurs in gathering information and documents and attending depositions, hearings, and the like.

23. GOVERNING LAW. This Agreement shall be governed by and construed and enforced in accordance with the laws of the State of Texas without giving effect to any conflict or choice of law rules or principles under which the law of any other jurisdiction would apply. Each party hereby submits to the jurisdiction of the federal and state courts located in the county of LJA's address and agrees that such courts shall be exclusive forum and venue for resolving any legal suit, action or proceeding arising out of or relating to this Agreement.

Ver.10.25.17



PROJECT B322-1012
PROPOSAL 18-00025

CITY OF GALESTON TEXAS
BROADWAY BOULEVARD STREET LIGHTING
FEMA REPORT PREPARATION
PROPOSED WORK BREAKDOWN STRUCTURE

| WBS Code | Task Description | Personnel | | | | | | Other Direct Costs | Task Cost |
|--|--|---------------------|---------------------------|---------------------------|-------------------------|------------------------|----------|--------------------|-----------|
| | | Engineering Manager | Sr. Professional Engineer | Senior Master Electrician | Electrical Sr. Designer | Electrical Sr. Drafter | (LS) | | |
| | | 225 | 190 | 160 | 145 | 102 | (LS) | | |
| 1.0 | Electrical | | | | | | | \$ - | |
| 1.01 | Field Evaluations With City Personnel | 8 | 8 | 24 | | | | \$ 8,280.00 | |
| 1.02 | Field Evaluations | 8 | 4 | 12 | | | | \$ 9,360.00 | |
| 1.03 | Office Investigations | 6 | 12 | 8 | | | | \$ 10,550.00 | |
| 1.04 | FEMA Report Preparation | 8 | 24 | 12 | 12 | 32 | | \$ 27,524.00 | |
| 1.05 | Preparation Of Construction Cost Estimates | 4 | 16 | 12 | | | | \$ 10,420.00 | |
| 1.07 | Response To COG Comments | 4 | 12 | | | | | \$ 5,460.00 | |
| 1.08 | Response To FEMA Comments | 4 | 12 | | | | | \$ 3,180.00 | |
| 1.09 | Final Report Preparation | 6 | 16 | | 4 | 8 | | \$ 8,026.00 | |
| 1.10 | Reimbursable Expenses (Mileage, Meals, Reproduction, Etc.) | | | | | | \$ 2,000 | \$2,000.00 | |
| PROPOSED TOTAL NOT TO EXCEED AMOUNT | | | | | | | | \$ 84,800.00 | |
| | Man-Hours | 48 | 104 | 68 | 16 | 40 | 536 | | |

ATTACHMENT B

LJA Engineering, Inc. – Midstream Infrastructure - Rate Schedule

City of Galveston Broadway Boulevard Lighting Project

| Classification | Rate | Classification | Rate |
|-----------------------------------|-------------|-----------------------------------|-------------|
| Vice President | \$230.00 | Principal RPLS | \$190.00 |
| Engineering Manager – Civil | \$195.00 | Project RPLS | \$140.00 |
| Sr. Professional Engineer – Civil | \$165.00 | Survey Technician | \$105.00 |
| Professional Engineer – Civil | \$145.00 | Survey Draftsman | \$90.00 |
| Graduate Engineer IV | \$140.00 | Two Man Survey Crew | \$142.00 |
| Graduate Engineer III | \$130.00 | Three Man Survey Crew | \$175.00 |
| Graduate Engineer II | \$115.00 | Sr. Environmental Scientist | \$135.00 |
| Graduate Engineer I | \$100.00 | Jr. Environmental Scientist | \$105.00 |
| Engineering Technician IV | \$130.00 | Environmental Services Technician | \$100.00 |
| Engineering Technician III | \$110.00 | Environmental Services Aide | \$90.00 |
| Engineering Technician II | \$95.00 | Electrical Engineering Manager | \$225.00 |
| Engineering Technician I | \$80.00 | Sr. Project Manager – Electrical | \$190.00 |
| Electrical CAD III | \$102.00 | Sr. Master Electrician | \$160.00 |
| Electrical Cost Estimator | \$102.00 | Sr. Designer – Electrical | \$145.00 |
| Clerical | \$40.00 | | |

Special Equipment and Other Fees

Equipment and direct expenses including delivery, telecom, rental vehicles, and airfare are billed at cost. Sub-consultants will be billed at cost.

Survey projects requiring overnight travel will be assessed a \$60 per diem charge for each crew member.

Mileage

Mileage is billed at \$0.545/mile.

Boats and All-Terrain Vehicles

Boat – Inshore Waters - \$65.00/hr dock to dock - \$400 minimum

Marine Waters - \$180.00/hr dock to dock - \$1000 minimum

ATV's - \$25/hr (added to hourly Survey Crew cost)

Reproduction Costs

All outsourced reproduction will be billed at cost plus 10%.

All copies and prints produced in-house will be billed as follows:

Letter or legal size, black and white: \$0.15/sheet

Letter or legal size, color: \$0.85/sheet

11" x 17" black and white sheets:

All other large format prints: \$1.10/ft²