

ENGINEERING AND RELATED SERVICES
July 4, 2008

STATE PROJECT NO. 700-99-0469
F.A.P. NO. BR-9908(512)
RETAINER CONTRACT FOR STATEWIDE ENGINEERING SERVICES FOR
BRPM (BRIDGE PREVENTIVE MAINTENANCE) PROGRAM
STATEWIDE

Under Authority granted by Title 48 of Louisiana Revised Statutes, the Louisiana Department of Transportation and Development (DOTD) hereby issues a Request for Qualification Statements (RFQ) on Standard Form 24-102 (SF 24-102), "Professional Engineering and Related Services", revised January 2003, from Consulting Firms (Consultant) to provide engineering and related services. **All requirements of Louisiana Professional Engineering and Land Surveying (LAPELS) Board must be met at the time of submittal.** One Prime-Consultant will be selected for this Contract.

Project Manager – Ms. Simone Ardoin may be reached at (225)379-1951.

PROJECT DESCRIPTION

The selected Consultant will perform engineering and related services for statewide projects covered by a Retainer Contract under separate Task Orders. The Consultant will be required to execute a Task Order which will specify the scope of services, contract time, and compensation. Each Task Order will become a part of the Retainer Contract.

This project requires the development of bridge preventive maintenance repair plans and proposals for proposed bridge sites throughout the State of Louisiana. The size and type of each bridge varies with each project, restricted only by the approved criteria set forth by the FHWA (Federal Highway Administration) for the Bridge Preventive Maintenance Program.

SCOPE OF SERVICES

The services to be rendered for this Retainer Contract shall consist of the following Stages and Parts:

Stage 3: Design

Part III: Preliminary Plans

Part IV: Final Plans

Part VII: Construction Proposal

Stage 5: Construction

Part II: Shop Drawings

The selected Consultant will be required to provide some or all of the following services for each Task Order (TO):

Stage 3: Design

Part III: Preliminary Plans

Preliminary Plans will consist of all engineering services required for the completion of Preliminary Plans and estimates for the project, all under a schedule for completion which will be in conformity with the contract time specified elsewhere in this Contract or established by supplemental agreement or task order. Specifically, the work under this Part consists of the following major items:

1. The assembly and study of existing data, including any recommended improvements, design calculations (if needed), traffic data available through the DOTD, as-built plans, standard plans and such other data as can be located through efforts of the Consultant.
2. The preparation of Preliminary Plans for the project generally in accordance with the requirements outlined in the latest AASHTO Standard Specifications for Highways and Bridges, the current editions of DOTD's Bridge Design Manual, General Guide for Bridge Plan Preparation and all other references specified elsewhere in this Contract. Statements in the manuals which may be in conflict with requirements specified in the main body of this Contract will be considered as superfluous information and not applicable to this Contract. Two sets of these plans on half-size (11"x17") sheets will be submitted to the Project manager for preliminary examination and comments after they have been developed and, upon request of receipt of any such comments, the Consultant will revise the plans accordingly.
3. Specifications for the project will be in accordance with the latest edition of Louisiana Standard Specifications for Roads and Bridges, amended to comply with the current practices of the DOTD.
4. The preparation of estimates of construction contract costs based on estimated quantities developed for the Preliminary Plans.
5. The preparation of all special specifications required and, if necessary, the preparation of a sequence of construction for the project.
6. The design standards for this improvement shall comply with the criteria prescribed in 23 CFR 625, Design Standards for Highways. The format of the plans shall conform to the standards used by the DOTD in the preparation of its contract plans for items of work of similar character, including plans for all drainage and utilities affected.
7. Design for Preliminary Plans will be done in English units of measurement.

Part IV: Final Plans

Final Plans will consist of all services required for the preparation of Final Plans, specifications, construction cost estimates, all under a schedule for completion which will be in conformity with the contract time specified elsewhere in this Contract or established

by Supplemental Agreement or Task Order, and all meeting the standard requirements of the DOTD as to general format and content. Specifically, the work under this Part consists of the following major items:

1. The design and preparation of completed detailed Final Plans drawn to acceptable scales for the project. At a minimum, the plans will include designs and/or details for all bridge repair items sufficient to bid the project and including but not limited to, traffic data for the anticipated year of construction, traffic routing details not covered by standard plans, graphical and tabular depictions of repair locations, details and photos of existing conditions, as-built drawings, summary of estimated quantities, repair procedures, construction limits, and bridge jacking locations and loads (if applicable).
2. The preparation of submittal of construction cost estimates based on the Final Plans.
3. The submittal to the Project Manager of original reproducible drawings of the Final Plans for Advanced Check Print (ACP) review.
4. After ACP's have been reviewed and comments incorporated, Final Plans will be submittaed accompanied by a properly indexed, neatly arranged, bound copy of all design computations used in developing the pay quantities. The submittal will be accompanied by a written certification from the Consultant that a detailed check of such computations by qualified personnel has been made prior to submission.
5. Final Contract Plans will be reproduced on high-quality, 4-mil, double-matte film using a plotting or reproduction process that fuses the graphics to ensure durability. Repeated handling and friction due to stacking of plans will not smear, flake or rub off the graphics. Improper plotter settings and plotter wear may cause inconsistent durability of the drawings. The Consultant will test samples of the submitted drawings for durability. Advance samples of matte films may be submitted with the ACP's, however, the Contract Plans will be tested separately. Failures will result in rejection of the submittal. Additional changes will be made with a permanent type of waterproof ink made for this purpose.
6. The outside measure of each plan sheet will be 22 x 36 inches or 23 x 36 inches with margins measuring not more than 21 inches x 34 inches. Top, bottom, and right hand margins will be at least ½ inch, and the left-hand margin will be at least 1 ½ inches.
7. lettering on plans will be of adequate size to facilitate a 50% reduction of plans.
8. All plans submitted by the Consultant will conform to the quality standards adopted by the DOTD. The DOTD's Chief Engineer may reject any plans not conforming to these standards.
9. Design for Final Plans will be done in English units of measurement.
10. If electronic files are used, the Consultant may be required to deliver all electronic design files as part of a final plan package.

Part VII: Construction Proposal

Construction Proposal services will consist of the following:

Pre-bid activities consist of packaging the PS&E (Plans Specifications & Estimate) documents with other required bidding documents, making plan and specification revisions, when appropriate.

The Consultant will prepare the construction proposal documents in accordance with DOTD's standard practices.

The Consultant will deliver the bid documents, including the construction proposal, to the DOTD for their review and approval a minimum of five months prior to the scheduled letting. Following DOTD's approval, the Consultant will deliver the final construction proposal in both electronic format and single sided hard copy a minimum of three months prior to the scheduled letting. The final construction proposal will be prepared in MS Word. The DOTD will be responsible for reproducing plans and bid documents in sufficient number to accommodate bidders and copies for the DOTD and the Consultant.

The Consultant will review the Final PS&E documents for completeness and proper coordination of plans, specifications, construction items and quantities prior to delivery of these documents to the DOTD. Any corrections required will be the responsibility of the Consultant.

The Consultant will prepare a construction estimate using DOTD's standard bid items. A summary of the estimated quantities will be furnished by the Consultant to the DOTD for entry into DOTD' BID system.

The Project Segment quantities will be broken down by project number and further by bridge structure number.

The DOTD will be responsible for the letting and award of the project.

Stage 5: Construction Engineering Services

Part II: Shop Drawing Review (if required)

The Consultant will be contracted to provide the structural shop drawing review during construction. Shop drawing review services may be performed under Supplemental Agreement or Task Order.

SHOP DRAWING REVIEW:

Review and approval of Contractor submittals, such as shop drawings, product data, and other data, as required by DOTD's contract with the Contractor, but only for the limited purpose of checking for conformance with the design concept and the information expressed in the contract documents. The Consultant's scope will be limited to a review

of quantities, details, dimensions and weights or gauges. Services provided by the Consultant under this Agreement will be performed in a manner consistent with that degree of care and skill ordinarily exercised by members of the same profession currently practicing under similar circumstances. The Consultant's scope will not include a review of fabrication processes, construction means or methods, coordination of the work with other trades or construction safety precautions, all which are the sole responsibility of the Contractor. The Consultant's review will be conducted with reasonable promptness while allowing sufficient time in the Consultant's judgment to permit adequate review. Review and approval of these drawings and other required submittals will not relieve the Contractor of his responsibility under this contract. The Consultant will not be responsible for any deviations from the contract documents not brought to the attention of the Consultant in writing by the Contractor.

The selected Consultant will develop bridge preventive maintenance repair plans and proposals for proposed bridge sites throughout the State of Louisiana.

- A. Research availability of existing plans and project information, provide initial inspection and evaluation of specified bridge elements, prepare recommendations for corrective actions to similar elements not specified, but needing repair, and prepare a preliminary report containing conceptual plans, repair procedures and a preliminary cost estimate.
- B. Provide all necessary engineering, final construction plans and details, final construction proposal, quantities, special provisions and a final cost estimate to bid the project. Provide any needed permit drawings for the project.
- C. Provide review of all fabrication drawings, erection, shoring and lifting proposals and general engineering field support during construction when needed.

REFERENCES

All services and documents will meet the standard requirements as to format and content of the DOTD; and will be prepared in accordance with the latest applicable editions, supplements and revisions of the following:

- 1. AASHTO Standards, ASTM Standards or DOTD Test Procedures
- 2. AASHTO Standard Specifications for Highway Bridges
- 3. AASHTO LRFD Bridge Design Specifications
- 4. DOTD Location and Survey Manual
- 5. DOTD Roadway Design Procedures and Details
- 6. DOTD Hydraulics Manual
- 7. DOTD Standard Specifications for Roads and Bridges
- 8. Manual of Uniform Traffic Control Devices
- 9. DOTD Traffic Signal Design Manual
- 10. National Environmental Policy Act (NEPA)
- 11. National Electric Safety Code
- 12. National Electric Code (NFPA 70)

13. DOTD Environmental Impact Procedures (Vols. I-III)
14. Policy on Geometric Design of Highways and Streets
15. Construction Contract Administration Manual
14. Materials Sampling Manual
15. DOTD Bridge Design Manual
16. Consultant Contract Services Manual
17. Geotechnical Engineering Services Document
18. Bridge Inspectors Reference Manual
19. DOTD Stage 1 Manual of Standard Practice

COMPENSATION

Compensation to the Consultant for services rendered in connection with each TO shall be determined on the basis of a non-negotiated lump sum amount prior to each TO being issued.

The amount payable under this Retainer Contract for services to be performed under the various TO's shall not exceed a maximum of **\$300,000**. Each TO shall be payable under the respective TO project number which shall be obtained by the Project Manager.

All travel related expenses will be compensated under direct expenses, and will be in accordance with Louisiana Office of State Travel regulations found at: <http://www.doa.louisiana.gov/osp/travel/travelpolicy/travelguide.pdf>. Vehicle rental rates will require prior approval from the DOTD Project Manager.

CONTRACT TIME AND NOTICE TO PROCEED

This Retainer Contract shall be in effect for the duration of **three years**. The services to be performed for each Task Order (TO) will be determined prior to the execution of the TO. The Consultant will proceed with the services required in the TO upon issuance of the Notice to Proceed from the DOTD. The contract time for each TO, will be specified in the executed TO. Any TO in effect, prior to the expiration date of the Retainer Contract shall be completed.

ELECTRONIC DELIVERABLES

The Consultant hereby agrees to produce electronic deliverables in conformance with "DOTD Software and Deliverable Standards for Electronic Plans" as outlined at http://www.dotd.louisiana.gov/highways/project_devel/design/electronic_standards_disclaimer.asp. The Consultant shall download and apply the latest CAD standards. The Consultant hereby agrees to install incremental updates to software and CAD standards as instructed by the Project Manager. Such updates will not have a significant impact on the development time or delivery date for project plans, or require the Consultant to purchase additional software. Prior to proceeding with plan development, the Consultant shall contact the Project Manager for any special instructions regarding updates to standards or project-specific requirements if this information has not already been provided.

In the event that any electronic standard conflicts with written documentation, including DOTD plan-development manuals, the electronic standard typically governs. The Consultant is responsible for contacting the Project Manager should questions arise.

Plan deliveries shall be made on CD or DVD media and labeled with media-compatible indelible ink on separate lines as follows:

- State Project Number
- “Final Plans Submittal”, “60% ACP Submittal” (or other milestone)
- “Electronic Deliverables”
- Consultant Firm Name

The CD/DVD shall be delivered with a signed cover letter that includes, among the formalities, a deliverable “hash” code that is documented in a report generated by the ControlCAD Indexer Submittal tool. The hash code is used to verify that the CD is authentic. At any stage of the plan development process, the Project Manager may require plan delivery by other methods including, but not limited to, upload to the DOTD ProjectWise repository.

The prime Consultant is responsible for ensuring that Sub-Consultants are prepared to produce electronic deliverables in conformance with DOTD electronic standards for plans.

QUALITY CONTROL/QUALITY ASSURANCE

The DOTD requires the Consultant to develop a Quality Control/Quality Assurance program or adopt DOTD's program; in order to provide a mechanism by which all construction plans can be subject to a systematic and consistent review. Consultant's must ensure quality and adhere to established design policies, procedures, standards and guidelines in the preparation and review of all design products. The DOTD shall provide limited input and technical assistance to the Consultant. The Consultant's plans shall meet or exceed DOTD's Construction Plans Quality Control / Quality Assurance Manual and EDSM No. Volume I. 1.1.24 on Plan Quality. The Consultant shall transmit plans with a DOTD Quality Control/Quality Assurance Checklist, Documentation Manual for Project Delivery, and a certification that the plans meet the DOTD's quality standards.

MINIMUM PERSONNEL REQUIREMENTS

The following requirements must be met at the time of submittal:

1. At least one Principal of the Consultant must be a Professional Engineer registered in the State of Louisiana.
2. At least one Principle or a responsible member of the Consultant must be a Professional Civil Engineer registered in the State of Louisiana.
3. The Consultant must also employ on a full time basis, a minimum of one Registered Professional Engineer having a minimum of 5 years experience in the preparation of highway bridge plans and highway bridge design of fixed or movable bridges. This includes, but is not limited to the design of reinforced or

prestressed concrete bridges, steel plate or box girder bridges, pile and column bent substructures, bridge bearings and bridge expansion joint repairs.

EVALUATION CRITERIA

The general criteria to be used by DOTD (when applicable) in evaluating responses for the selection of a Consultant to perform these services are:

1. Consultant's firm experience on similar projects, weighting factor of 3;
2. Consultant's personnel experience on similar projects, weighting factor of 4;
3. Consultant's firm size as related to the estimated project cost, weighting factor of 3;
4. Consultant's past performance on similar DOTD projects, weighting factor of 6;**
5. Consultant's current work load, weighting factor of 5;
6. Location where the work will be performed, weighting factor of 4. *

* Location will be based from Marksville, Louisiana

**The Bridge Design Moderate (BB) performance rating will be used for this project.

Consultants will be evaluated as indicated in Items 1- 6. The evaluation will be by means of a point-based rating system. Each of the above criteria will receive a rating on a scale of 0-4. Then the rating will be multiplied by the corresponding weighting factor. The firm's ratings in each category will then be added to arrive at the Consultant's final rating.

DOTD's Consultant Evaluation Committee will be responsible for performing the above described evaluation, and presenting a short list of the three (if three are qualified) highest rated Consultants to the Secretary of the DOTD. The Secretary will make the final selection.

CONTRACT REQUIREMENTS

The selected Consultant will be required to execute the contract within 10 days after receipt of the contract.

INSURANCE - During the term of this contract, the Consultant will carry professional liability insurance in the amount of \$1,000,000. This insurance will be written on a "claims-made" basis. Prior to executing the contract, the Consultant will provide a Certificate of Insurance to DOTD showing evidence of such professional liability insurance.

AUDIT - The selected Consultant will allow the DOTD Audit Section to perform an annual overhead audit of their books, or provide an *independent* Certified Public Accountant (CPA) audited overhead rate. This rate must be developed using Federal Acquisition Regulations (FAR) and guidelines provided by the DOTD Audit Section. In addition, the Consultant will submit semi-annual labor rate information, when requested by DOTD.

The selected Consultant will maintain, an approved Project Cost System and segregate direct from indirect cost in their General Ledger. Pre-award and post audits, as well as interim audits, may be required. For audit purposes, the selected Consultant will maintain accounting records for a minimum of five years after final contract payment.

Any Consultant currently under contract with the DOTD and who has not met all the audit requirements documented in the manual and/or notices posted on the DOTD Consultant Contract Services Website (www.dotd.louisiana.gov), will not be considered for this project.

SUBMITTAL REQUIREMENTS

One original (**stamped original**) and four copies of the SF 24-102 must be submitted to DOTD. All submittals must be in accordance with the requirements of this advertisement and the Consultant Contract Services Manual. Any Consultant failing to submit any of the information required on the SF 24-102, or providing inaccurate information on the SF 24-102, will be considered non-responsive.

Name(s) of the Consultant listed on the SF 24-102, must precisely match the name(s) filed with the Louisiana Secretary of State, Corporation Division, and the Louisiana State Board of Registration for Professional Engineers and Land Surveyors.

The SF 24-102 will be identified with State Project No. **700-99-0469**, and will be submitted **prior to 3:00 p.m. CST on Monday, July 28, 2008**, by hand delivery or mail, addressed to:

Department of Transportation and Development
Attn.: Mr. Edward Wedge, III, P. E.
Consultant Contract Services Administrator
1201 Capitol Access Road, **Room 405-T**
Baton Rouge, LA 70802-4438 or
Post Office Box 94245
Baton Rouge, Louisiana 70804-9245
Telephone: (225) 379-1989

REVISIONS TO THE RFQ

DOTD reserves the right to revise any part of the RFQ by issuing an addendum to the RFQ at any time. Issuance of this RFQ in no way constitutes a commitment by DOTD to award a contract. DOTD reserves the right to accept or reject, in whole or part, all Qualification Statements submitted and/or cancel this announcement if it is determined to be in DOTD's best interest. All materials submitted in response to this announcement become the property of DOTD and selection or rejection of a submittal does not affect

this right. DOTD also reserves the right, at its sole discretion, to waive administrative informalities contained in the RFQ.