State of Washington
DEPARTMENT OF ENTERPRISE SERVICES
ENGINEERING & ARCHITECTURAL SERVICES
OLYMPIA, WA

NOTICE TO CONSULTANTS
REQUEST FOR QUALIFICATIONS
Submittal Date: March 31, 2016

SERVICES REQUIRED for Project No. 2016-931; **Capitol Lake Dam Preservation; Department of Enterprise Services; Olympia, WA. A qualified project team is required to perform a comprehensive assessment of the facility and provide concept level cost estimates for needed repairs/maintenance.**

Scope of Work

The scope of this analysis includes:

1. *An analysis of the structural aspects of the dam, including wing walls, bridge deck, earthen embankment, and spillway. Analysis is to include*
    a. *Deterioration of the concrete and rebar due to corrosion, scour, abrasion or fatigue, considerations to include chloride ion contamination, alkali-silica reaction, sulfate attack, delayed ettringite formation, and the depth of cover over the reinforcing steel on key structural elements*
    b. *Settling, including the designation points for future survey so the structure can be monitored for settlement, the wing walls and pier walls as well as the bottom slab should be surveyed and compared to previous elevation data to ensure the dam is not settling.*
    c. *Seismic resilience, and*
    d. *Longevity of the structure.*
2. *An analysis of the risks to safety associated with the dam facility and its operation, including*
    a. *Pedestrian, bicycle, and auto movements on 5th Avenue*
    b. *Fall protection risks to staff, particularly related to active guidance of floating debris through the dam gates and maintenance of tide gate equipment*
    c. *Fall protection risks to the public at the control house and north-side observation decks*
    d. *Industrial risks associated with the operation and maintenance of the dam*
3. *An analysis of the hydraulic systems that provide the water level control function of the dam, including an analysis of the tide gates and their operating and control systems.*
    a. *Inspection of the dam components for wear, compliance with applicable industry standards, and longevity*
    b. *Identify components and systems that should be upgraded to improve performance or longevity*
4. *An analysis of the remaining useful life of the dam which responds to the question: At what point can the current dam structure no longer provide adequate flood protection due to obsolescence, deterioration, or risk of structural failure?*
5. *Concept level cost estimates and prioritization of retrofits, replacements, and repairs.*

6. *Plans, specifications, permits, and construction oversight of highest priority work. Construction to be completed by April 30, 2017.*

Background

The earthen embankment that forms the 5th Avenue dam was constructed between 1949 and 1951. It is 800 feet long, 80 feet wide across the top, and approximately 27 feet tall. The base of the dam averages 200 feet wide from toe to toe.

The dam holds a rectangular concrete spillway which is 82 feet wide. Wing walls support the dam in the area of the spillway. The spillway has 2 flood control discharge channels and a fishway channel. The spillway structure supports a road deck above. The spillway is topped by a control house which holds electric motors, reduction gears, and controls for the operation of the spillway gates. The system which operates each gate is an electric motor driving a large gearbox. The gearbox drives cable drums which raise and lower the gates. Both gates have their own motor and gearbox. There is a backup system on the west gate which is independent of the electric drive and is hydraulic. All three drives can be run from a generator in the dam control house.

Lake managers have monitored the seismic stability of the dam for many years. Significant quakes occurred in 1949 (magnitude 7.1), in 1965 (magnitude 6.7), and in 2001 (magnitude 6.8). According to the Pacific Northwest Seismograph Network the northern industrial areas of downtown Olympia settled 5 inches as a result of the 1949 quake, as the dam was being built. Through these major shakes and numerous smaller quakes the dam has not been found to have suffered structural damage.

The 4th and 5th Avenue corridors connect east and west Olympia by crossing the Deschutes River outflow. 5th Avenue also links to Deschutes Parkway, just west of the dam, carrying trips between Olympia and Tumwater, and between Downtown Olympia and "courthouse hill".

Capitol Lake is infested with New Zealand mud snails, milfoil, and other invasive species. All in-water or shoreline access requires post-activity decontamination.

There will be an **Informational Meeting** for this request on:
March 23, 2016, 10:30 a.m.

Department of Enterprise Services
Conference Room 2330
1500 Jefferson Street SE, Olympia, WA 98504
Angel Ernst, 360.407.7965

Selection Criteria

Firms will be selected in a two-phase process: Phase 1 - short listing firms based on submitted information and Phase 2 - oral presentations and interviews of short listed firms.

Firms will be considered for interviews based upon the following criteria, as indicated, for a total of 100 possible points:

Qualifications of Key Personnel (25 points);
General Project Approach (25 points);
Relevant Experience (30 points);
Diverse Business Inclusion Plan (10 points);
Geographic Proximity (10 points);

Other Information

The Agreements for Consultant services will be the standard Division of Engineering and Architectural Services Agreement and fees will be negotiated when applicable, on a current Architectural/Engineering Fee Schedule for Washington State Public Works Building Projects.

All submitting firms are encouraged to register in Washington's Electronic Business Solution Application (WEBS) at: https://fortress.wa.gov/ga/webs/.

The state reserves the right to continue with the consultant selected or has the option to conduct a new consultant selection process for future services beyond those services advertised above.

Voluntary numerical Diverse Business Inclusion goals have been established for the project as: 12% MBE and 8% WBE, and 5% Washington Small Business and 5% Veterans have been established for this project. Achievement of the goals is encouraged. However, no minimum level of Diverse Business participation shall be required as a condition of A/E selection. Proposals will not be rejected or considered non-responsive if they do not include diverse Business participation, but plan for Diverse Business Inclusion is required. A/E's may contact the following resources to obtain information on certified and registered diverse business firms for potential sub-consultants:

- The Office of Minority and Women's Business Enterprises: 866.208.1064 or www.omwbe.wa.gov,
- For small business information: Servando Patlan, Business Diversity and Outreach Manager at the Washington State Department of Enterprise Services: 360.407.9390 or servando.patlan@des.wa.gov,
- The Department of Veterans' Affairs: 360.725.2169 or www.dva.wa.gov.

Submittal Requirements

Submit required number of Statements of Qualifications, (6 hard copies**)** and one electronic copy**,** with the project number and title clearly identified on the front cover. Each of the submittals should include:

- Executive summary
- Federal form SF330 (Part II only) http://www.des.wa.gov/SiteCollectionDocuments/Facilities/EAS/EAS330AEQual.doc
- Any other pertinent data to address the selection criteria and assist the Selection Board in evaluating your qualifications.
- Consultant Selection Diverse Business Inclusion Plan Criteria may be found at: http://des.wa.gov/SiteCollectionDocuments/Facilities/EAS/DiverseBusinessInclusionPlanCriteria.pdf

- No more than twenty (20) total pages of content at 8 ½ X 11 size sheets
  - Covers, dividers, and tab sheets are not included in page count total
  - Note, 11"x 17" fold outs can be included, but counted as two sheets.

To qualify for review, submittals must be delivered to the following address:

Attention: Angeline Ernst
Department of Enterprise Services
Engineering & Architectural Services
1500 Jefferson, Olympia, WA 98501 (hand delivered or currier)
P. O. Box 41476, Olympia, Washington, 98504-1476 (Mailed)

Refer to the DES website for amendments to the published public notice and/or RFQ (http://www.des.wa.gov/services/facilities/Construction/B1/Pages/EASCurrentProjects.aspx). It is the responsibility of the interested firms to track and obtain amendments.

All submittals must be received no later than March 31, 2016, prior to 2:00 PM, (as per date/time stamped by E&AS.)

For selection process questions please contact Angeline Ernst, 360.407.7965, Angeline.Ernst@des.wa.gov.

For project questions please contact the Project Manager, Matthew Miskovic at 360.407.7951 or matthew.miskovic@des.wa.gov or Nathaniel Jones, Asset Manager at 360.407.9327 or nathaniel.jones@des.wa.gov.

NO FAXED, OR E-MAILED COPIES WILL BE ACCEPTED.

Next Steps

Following the Phase 1 evaluation of these submittals, the consultant selection board will interview top ranked short-listed firms. The ranking is based on evaluation of submitted information (as well as reference checks, when performed with Phase 1) from firms deemed to be the most highly qualified for the required service.

The Phase 2 interview criteria will be provided to the short-listed firms. The top ranking Phase 2 firm will be selected.

Phase II Interviews will be scheduled for the week of **April 18th, 2016** at The Department of Enterprise Services in Olympia, WA.

Firms will be notified of the selection results the last week of April 2016.

The State of Washington is an affirmative action employer. All submittals become the property of the State.