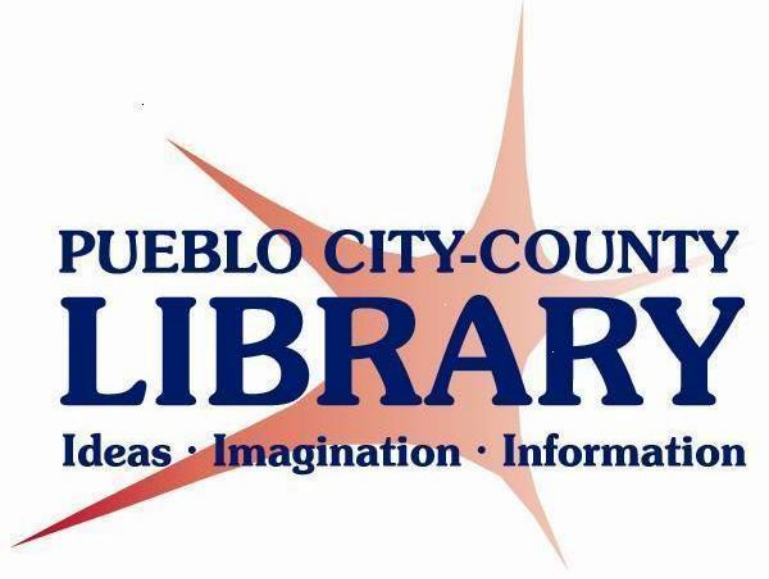

REQUEST FOR BIDS

GEOTECHNICAL CONSULTING SERVICES

REQUEST FOR BIDS RELEASE DATE: June 8, 2012

BIDS DUE NLT: July 6, 2012 by 3:00 PM

RFB # CP060820122550

Overview:

The Pueblo City-County Library District (PCCLD) is seeking bids from qualified geotechnical engineering firms for services during the design and construction of three new public library buildings in Pueblo County, Colorado. It is PCCLD's intent to solicit bids from several firms, evaluate the results, and select the lowest bid that best meet the needs of PCCLD. This request is outlined as follows:

1. Description of the Project
2. Project Schedule
3. Submittal Requirements
4. Submittal Schedule
5. Scope of Work

Description of the Project

The Pueblo City-County Library District seeks pricing bids from geotechnical engineering firms to perform subsurface investigations and produce reports detailing their findings and recommendations. This studies and reports will be concerned with principles of soil mechanics and rock mechanics upon investigation of subsurface conditions and materials; determination of the relevant physical/mechanical and chemical properties of these materials; evaluation of the stability of natural slopes and man-made soil deposits; assessment of risks posed by site conditions; recommendations regarding earthworks and structure foundations design; and monitoring of site conditions, earthwork and foundation construction for three proposed new library buildings to be built in Pueblo County, Colorado, in 2013 and 2014.

Services may include test boring, test pits, soil bearing values, percolation tests, air and water pollution test, ground corrosion and resistivity tests; including necessary operations for determining subsoil, air and water conditions, with reports and appropriate professional recommendations, as indicated. [See Scope of Work]

Project Schedule

PCCLD anticipates the selected geotechnical engineering firm will assist the design team from the schematic design phase through the construction phase of the project by providing the specified geotechnical engineering services to perform subsurface investigations and produce reports detailing their findings and recommendations. Specific milestones for the project are:

- Schematic Design October 1, 2012
- Design Development January 1, 2013
- Construction Documents April 1, 2013
- Bidding and Negotiations May 1, 2013
- Construction Complete July 1, 2014.

Submittal Requirements

All submittals should include:

- Itemized statement of cost for the services described plus a total cost
- Statement of qualifications for individuals assigned to the job to include licensing and certification
- References for three similar jobs completed within the last three years.

Submittals should be complete and provide enough information to make an informed decision of best qualified geotechnical consultant.

Each complete submission is to include a signed original; three complete copies; and one digital version copied onto either a CD or USB and included with the hard copies, and submitted not later than 3:00 p.m. (MST), July 6, 2012, to:

Ms. Chris Brogan, CFO
Pueblo City-County Library District
100 E. Abriendo Avenue, Room 317
Pueblo, CO 81004

Submittal Schedule

- Request for Bid issued—June 8, 2012
- Vendor questions—June 15, 2012
  Vendor questions can be addressed to:
  Jon Walker, Executive Director
  100 Abriendo Avenue
  Pueblo CO 81004
  719-562-5625
  Jon.walker@pueblolibrary.org
- Responses to questions—June 22, 2012
- Bids due—July 6, 2012
- Evaluation period—July 7-July 25, 2012
- Engineering firm selected July 26, 2012

Scope of Work

The construction project includes three new public library buildings, including a library of about 7,500 square feet in size to be located at a site to be determined on the East Side of the City of Pueblo, a library of about 7,500 square feet in size to be located at a site to be determined on the St. Charles Mesa east of the City of Pueblo, and a library of approximately 7,500 square feet to be located at a site to be determined in Colorado City, Colorado. Each library building will be one level and include surface parking for up to 50 vehicles. The architect for the project is OZ Architecture, Denver, CO. Programming and conceptual design are scheduled to commence

during the summer of 2012. CM/GC services for this project also are separately being solicited at this time. It is anticipated that design development will take place during the late 2012 and early 2013 with groundbreaking on construction to take place in 2013.

The architect's structural engineering subconsultant will provide locations and quantities of test holes to be drilled. The architect's civil engineering subconsultant will provide a rough sketch of the proposed site plan.

The geotech report will recommend foundation types and structural design criteria. It will also contain compaction criteria for soils under and around the building. It will also contain guidance on sanitary sewer connection or septic sanitary system design, as indicated. The report should also contain pavement designs for parking lots, sidewalks and roadways.

The geotechnical/testing lab contract will include:

- Preliminary (and final) subsurface investigative report (4 test holes inside building footprint and 3 test holes in parking lot area, including design recommendations for foundation and paving systems)
- Drilled pier (caisson) observation (full time)
- Foundation open hole inspection
- Soils - materials and compaction (compaction testing, Standard Proctor tests)
- Reinforcing steel observation
- Concrete reinforcement observation (rebar observation and concrete slump tests)
- Concrete testing - materials and quality (24 sets of 4 concrete cylinders; eight for each of three buildings)
- Pavement testing (asphalt compaction testing and asphalt gradation test)
- Masonry testing (grout strength, mortar strength, reinforcing steel observation, any special masonry inspections required by the structural engineer)
- Structural and miscellaneous metals inspection (steel connection observation and welding testing)
- Geotechnical/Testing Lab contract for services will be on a unit-cost basis.

The geotechnical engineering project is expected to begin with a review of project needs to define the required material properties, then conduct investigation at three sites of soil, rock, fault distribution and bedrock properties on and below an area of interest to determine their engineering properties including how they will interact with, on or in the proposed construction, to gain an understanding of the area in or on which the engineering will take place. The investigation is to include the assessment of the risk to humans, property and the environment from natural hazards including, but not limited to, earthquakes, landslides, sinkholes, soil

liquefaction, debris flows and rockfalls, and to determine any necessary ground improvement techniques required to improve the engineering properties of the soil mass treated, such as properties that are modified as to shear strength, stiffness and permeability. In other words, the ground improvement necessary to support foundations for the contemplated structures.

The geotechnical engineer then will recommend the type of foundations, earthworks, and/or pavement sub-grades required for the intended man-made structures to be built. The foundations are to be designed and constructed for structures of smaller commercial-grade buildings.

Bids should include all anticipated pre-construction and construction testing services. Geotechnical firms should price the unit cost of each type of test. Award of the contract for testing (preliminary and construction) will go to the lowest, best bid.