

**BOARD OF SUPERVISORS
FINANCE/GOVERNMENT OPERATIONS AND
ECONOMIC DEVELOPMENT COMMITTEE
ACTION ITEM**

SUBJECT: **CONTRACT RENEWAL/On Call
Geotechnical Engineering and Soil Scientists Services**

ELECTION DISTRICT: Countywide

CRITICAL ACTION DATE: July 12, 2016

STAFF CONTACTS: Joe Kroboth, Transportation and Capital Infrastructure
Mark Hoffman, Transportation and Capital Infrastructure
Mike Angel, Finance and Procurement

PURPOSE: To renew the contracts for the On Call Geotechnical Engineering and Soil Scientists Services.

RECOMMENDATIONS: Staff recommends that the Finance/Government Operations and Economic Development Committee recommend to the Board of Supervisors (Board) that the Purchasing Agent be authorized to renew the contracts for the On Call Geotechnical Engineering and Soil Scientists Services with GeoConcepts Engineering, Inc., ECS Mid-Atlantic, LLC and Triad Engineering, Inc. in the amount of \$1,500,000.

BACKGROUND: The primary purpose of these contracts is to provide the County with as-needed professional geotechnical engineering and construction testing/inspection services in support of the approved Capital Improvement Program (CIP). However, they are available to support any County geotechnical requirements. Examples of the type of services that may be provided under these contracts:

Geotechnical engineering services included but are not limited to:

- Feasibility Studies;
- Preliminary soils review and classifications, including evaluation of Karst topography;
- Review and development of number of borings, location and depth, before commencing geotechnical investigation;
- Detailed soils/site investigations to include but not limited to borings/test pits, soil classification, stratification, and recommended soil bearing capacity;
- Determination of ground water levels

- Preparation of reports summarizing findings from investigations, including construction recommendations regarding excavation, fill and backfill, cut and fill and foundation system, pavement, and slab design recommendations;
- Development or review of Division 2 specifications (site work), with recommendations to the County
- Review of geotechnical reports prepared by others and certification of acceptance as the Geotechnical Engineer of record; and
- Additional Geotechnical engineering services as directed

Field Testing services included but are not limited to:

- Soil compaction testing and inspection;
- Subgrade stripping and proof rolling inspection
- Foundation inspection;
- Reinforcement steel and formwork inspection;
- Concrete placement testing and inspection;
- Sample and cylinder pick up;
- Asphalt placement testing and inspection;
- Mortar sampling testing and inspection;
- Structural steel bolting, plumbness and visual weld inspection; and
- Pre cast concrete inspection

Lab testing services included but are not limited to:

- Concrete cylinder compression test;
- Mortar cube and grout cylinder compression test;
- Concrete core preparation and compression test;
- Concrete block preparation and compression test;
- Concrete mix verification;
- Mortar mix verification;
- Soil moisture content determination;
- Attenberg limits and gradation;
- Standard and Modified Proctors (ASTM D-698 &1557 or AASHTO T-99); and
- Additional laboratory and materials testing services as directed

Projects are assigned on a rotating basis to ensure that each company gets an equal amount of work in the duration of this contract pursuant to Code of Virginia §2.2-4303.1. Staff is satisfied with the work provided by the contractors. The current contract period ends on August 18, 2016. Staff recommends that the Board authorize staff to exercise the first of four renewal options under this contract for the period of August 19, 2016 through August 18, 2017.

ISSUES: Historically, the On Call Geotechnical Engineering and Soil Scientists Services contract has been used to investigate site conditions and to verify material performance on

County CIP building projects. With the addition of numerous road projects to the County CIP, the use of this contract is being expanded to include site investigations for road design. By using the On Call Geotechnical Engineering and Soil Scientist Services contract on road projects instead of subcontracting geotechnical services through the On Call Roadway Transportation Design Services contract, contract award authority is preserved on the On Call Roadway Transportation Design Services contract for road design. Ultimately, this arrangement helps streamline the time needed to design multiple road projects concurrently by maximizing the use of the On Call Roadway Transportation Design Services contract and reducing the number of road projects needing to go through the more time consuming Request for Proposal process to procure design services. Furthermore, if these contracts are not renewed, the geotechnical engineering and soil scientist services of CIP building projects and numerous road projects would have to be procured by separate formal competitive negotiations, or in the case of road projects subcontracted through On Call Roadway Transportation Design Services. This would severely impact staff resources and possibly add some lead time to many projects.

FISCAL IMPACT: The County estimates spending \$1,500,000 on geotechnical engineering and soil scientist support services during the contract period. Funding for this contract would come from project appropriations in the Capital Fund, the Department of Transportation and Capital Infrastructure's operating budget, and/or Proffer funds subject to appropriation by the Board. No additional appropriations are being requested for this contract award. The estimated award authority is based upon the anticipated requirements to support the approved County CIP during the contract period.

ALTERNATIVES:

1. Recommend to the Board that the Purchasing Agent be authorized to renew the contracts for On Call Geotechnical Engineering and Soil Scientists Services with GeoConcepts Engineering, Inc., ECS Mid-Atlantic, LLC and Triad Engineering, Inc. in the estimated amount of \$1,500,000.
2. Do not recommend the contract renewal and direct staff on how to proceed.

DRAFT MOTIONS:

1. I move that the Finance/Government Operations and Economic Development Committee recommend that the Board of Supervisors that the Purchasing Agent be authorized to renew the contracts for On Call Geotechnical Engineering and Soil Scientists Services with GeoConcepts Engineering, Inc., ECS Mid-Atlantic, LLC and Triad Engineering, Inc. in the estimated amount of \$1,500,000.

OR

2. I move an alternate motion.