

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete One Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

21. TITLE AND LOCATION *(City and State)*

Geotechnical Engineering Services Southern Beltway Findlay Connector, S.R. 0060 to S.R. 0022 Sections Findlay 54A & 54B Allegheny County, Pennsylvania

22. YEAR COMPLETED

PROFESSIONAL SERVICES
2006

CONSTRUCTION *(if applicable)*

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER
Pennsylvania Turnpike Commission

b. POINT OF CONTACT NAME
Mr. Frank Kempf

d. POINT OF CONTACT TELEPHONE NUMBER
717-939-9551

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size and cost)*

Design and construction of Sections 54A and 54B of the Southern Beltway Findlay Connector consists of approximately three (3) miles of new four-lane, limited-access toll highway in Allegheny County, beginning near the Pittsburgh International Airport at the intersection with S.R. 0060 and ending at a point south of S.R. 3071 (Potato Garden Road), all within Findlay Township.

AWK provided geotechnical services associated with the foundation design for 12 single and multi-span bridges, and a dual 8-span bridge along the Mainline from preliminary design through consultation during construction. The purpose of this evaluation was to assess the condition and engineering properties of the subsurface soil and bedrock within the project limits and, based on the conditions encountered, derive conclusions and make final design recommendations regarding their impact on the proposed construction.

Work performed by AWK includes:

- Geotechnical literature review of the project area;
- Geological site reconnaissance;
- Administration of a subsurface exploration program and drilling inspection for 8,600 feet of soil and rock drilling;
- Sample selection and administration of a laboratory testing program which included grain size, Atterberg limits, shear strength, one-dimensional consolidation, moisture content, and point load testing on rock;
- Stability and settlement analysis for fills, embankments and areas containing mine spoil, colluvium and landslide susceptible material;
- Review all of the geotechnical standard PTC special provisions and construction detail; revised some and developed new ones for specific site conditions not previously addressed;
- Preparation of geotechnical engineering report for each bridge structure;
- Provided geotechnical consultation during construction.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
a	AWK Consulting Engineers, Inc.	Pittsburgh, PA	Sub-Consultant
b	SAI Consulting Engineers, Inc.	Pittsburgh, PA	Prime Consultant