

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

1

21. TITLE AND LOCATION (City and State)

US 422 Schuylkill River Crossing Complex Project
Lower Providence, West Norriton & Upper Merion Twps., Montgomery Co, PA

22. YEAR COMPLETED

PROFESSIONAL SERVICES
2012

CONSTRUCTION (if applicable)
On-going

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER

PennDOT District 6-0
7000 Geerdes Blvd. King of Prussia, PA 19406

b. POINT OF CONTACT NAME

Sarah McInnes, P.E.
Email: smcinn@State.pa.us

c. POINT OF CONTACT TELEPHONE NUMBER

610-205-6544

This project is divided into two construction packages, 4TR and SRB. The 4TR Section entails PA 363/SR 0422 interchange and the SRB Section encompasses SR 0422 over the Schuylkill River, PA 23 over SR 0422, and SR 0422 eastbound off ramp to PA 23. As part of this project, most of the existing structures are scheduled for replacement to accommodate widening of SR 0422, lengthening of the acceleration and deceleration lanes, modifying ramp configurations, and to increase minimum vertical clearances over SR 0422 to current requirement.

- The 4TR Section involves construction of new eastbound on ramp from PA 363 to SR 0422 EB; construction of new eastbound off ramp from SR 0422 EB to PA 363; construction of new westbound on ramp from PA 363 to SR 0422 WB; improvement of Trooper Road/Audubon Road intersection area to facilitate operations; construction of two (2) retaining walls and one (1) sound barrier wall along the ramps; and construction of seven (7) bridge/cantilevered sign structures.
- The SRB Section involves construction of three new structures for westbound lanes and replacement of existing structures for eastbound lanes; replacement of the PA 23 over SR 0422 superstructure; construction of new flyover off ramp from SR 0422 EB into a modified interchange for improved operations and reduced congestion; widening of existing eastbound off ramp from SR 0422 EB to First Avenue; construction of two (2) MSE retaining walls, nine (9) sound barrier walls, and one (1) soldier pile and lagging wall; and construction of eight (8) bridge/cantilevered sign structures. Construction of the SR 0422 over Schuylkill River and Norfolk Southern Railroad bridge structure involves 5 spans, 157' long each with a minimum vertical clearance of 23 feet.

AWK is responsible for all geotechnical investigations and recommendations associated with prefinal and final design for this project. Work performed by AWK includes: geotechnical literature review of the project area; geotechnical site reconnaissance; administration of subsurface exploration programs and drilling inspection for 8150 feet of soil and rock drilling including about 460 feet of drilling from a floating plant in the Schuylkill River; administration of a laboratory testing program; providing recommendations for roadway pavement design parameters; pavement design; geotechnical analyses; and preparation of one Problem Statement and Draft Exploration Plan (PSDEP) and one Reconnaissance Structure Geotechnical Engineering Report (RSGER), two Geotechnical Engineering Report (GER), nineteen Structure Foundation Reports, and three Structure Foundation Guidance Report for design/build. The geotechnical analyses will include; slope stability calculations for embankment fills and retaining walls using GSTABL; settlement and bearing capacity analyses for shallow and deep foundations; and settlement-induced downdrag analysis of drilled shafts and driven pile foundations. The GER will also include preparation of Soil Profile Plans and geotechnical-related special provision.



25. FIRM'S FROM SECTION C INVOLVED IN THIS PROJECT

(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a. AWK Consulting Engineers, Inc.	Pittsburgh, PA	Sub-Consultant
b.		
c.		
d.		