

**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 <i>(City and State)</i> Preliminary and Final Design Saw Mill Run Flood Protection Project Pittsburgh, Pennsylvania		22. YEAR COMPLETED	
		PROFESSIONAL SERVICES 2000	CONSTRUCTION <i>(if applicable)</i> 2004
23. PROJECT OWNER'S INFORMATION			
a. PROJECT OWNER USACE - Pittsburgh District	b. POINT OF CONTACT NAME Mr. Carmen Lebder	d. POINT OF CONTACT TELEPHONE NUMBER 412-395-7284	

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

AWK was responsible for preparation of contract drawings (**MICROSTATION**), specifications (**SPECSINTACT**), design analyses, quantities and an **MCACES** cost estimate for flood protection improvement along 4,700 linear feet of Saw Mill Run channel. The flood protection improvement work generally involved excavation to lower the existing channel, floodwall construction, utility relocation, and construction of temporary sewer bypass structures. The channel excavation work required construction of approximately 500 linear feet of cantilevered post and panel wall, 1,900 linear feet of anchored post and panel wall, 50 linear feet of anchored sheet pile wall, 175 feet of concrete gravity wall, concrete abutment protection at 2 bridge structures, a reinforced concrete drop structure with baffles, 2 access ramps, Fabriform slope protection, underpinning for existing pier foundations, 200 linear feet of relocated 42-inch diameter interceptor sewer, 200 linear feet of relocated 2.5'x6' interceptor siphon sewer, and 150 linear feet of relocated 15-inch diameter siphon sewer.

Principal Features of Work:

- a. AWK provided the following:
  - A complete design for the post and panel walls, sheet pile walls, and a complete design for the access ramps.
  - A complete design for underpinning at the Marble Co. and Technologies Institute Building, and a reinforced concrete drop structure with baffles.
  - A complete design for reinforced concrete abutment protection for the South Main Street Bridge and the Alexander Street Bridge.
  - A complete design for relocation of an existing 42" diameter RCP sanitary sewer landward of the new concrete gravity wall.
  - A complete design for relocation of an existing 48" x 72" concrete box sanitary siphon sewer located beneath the South Main Street Bridge.
  - A complete design for relocation of an existing 15" diameter sewer crossing Saw Mill Run just downstream of the South Main Street Bridge.
  - The General Plan and Major Project Features drawing, the plan and profile drawings, and the cross section drawings of the completed design.
  - A detailed construction contract drawing for the survey Baseline and References.
  - A review of required relocations identified in the General Reevaluation Report (GRR), and modified GRR reflecting the final project design.
  - Refined permanent easement lines for project construction and future operation and maintenance.

- b. The deliverables under this Work Order included the following:
  - A project specific Quality Control (QC) Plan for AWK's in-house quality control for the deliverables to be provided in this Work Order.
  - Analysis and design for all structures.
  - Hydraulic design for the sewer relocation work including coordination with the Allegheny County Sanitary Authority.
  - A detailed set of construction contract drawings, technical specifications, and quantity estimates for all features of work.
  - A detailed set of sewer relocation plans, profiles, cross sections, and details; including design analyses, specifications, and quantity estimates.
  - Detailed contract construction drawing for the survey baseline and references.



This photo taken by the Corps shows the revetment mattress after Hurricane Ivan flooded the area. The recent channel improvement held up remarkably well considering that this was the second major flooding event in a one week time frame.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

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