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December 2, 2014

U.S. Army Corps of Engineers
Attn: CECW-CE (Lisa Kiefel)
441 G Street NW
Washington, DC 20314-1000

RE: Proposals From Non-Federal Interests for Proposed Feasibility Studies and Proposed Modifications to Authorized Water Resources Development Projects or Feasibility Studies for Inclusion in the U.S. Army Corps of Engineers (USACE) Annual Report

Dear Ms. Kiefel:

On behalf of the City of Dubuque, Iowa, the sole non-Federal interest acting as the sponsor and contributor towards the non-Federal share of the proposed feasibility studies and modifications, the attached proposals are submitted for your consideration and possible inclusion in the USACE's February 2015 Annual Report.

If you have any questions regarding this submittal, please contact me at your earliest convenience at the address and phone number noted above – or by email at dvogt@cityofdubuque.org.

Sincerely,

Don Vogt
Public Works Director

Attachments

IMPROVEMENTS TO THE DUBUQUE LOCAL FLOOD PROTECTION PROJECT

1. The City of Dubuque (IA) plans to act as a project sponsor.
2. Modification to the Dubuque Local Flood Protection Project which was authorized in 1962, by Public Law 87-874, to be constructed substantially in accordance with recommendations of the Chief of Engineers in House Document 450, 87th Congress, 2nd session. Project construction began in 1968 and was completed in 1973.
3. The purpose of the proposed modifications to the Dubuque Local Flood Protection Project is to ensure the viability and stability of the system that was designed fifty years ago will continue to provide flood protection and prevent flood damage.

The U. S. Army Corps of Engineers (USACE) has updated its guidance on the analysis and design of I-walls and T-walls after the failure of several I-walls in Louisiana during Hurricane Katrina in 2005.

The Dubuque Local Flood Protection Project included the construction of eight I-wall sections. The City took it upon itself to bury approximately 1,800 feet of I-wall sections in an earthen levee. But an additional 2,200 feet of I-wall and T-wall sections along the south reach of the Dubuque Local Flood Protection Project is warranted.

Based on the information available and utilized by the USACE and stated in their June 2010 report [Engineering Technical Review Report Existing Flood Risk Management Levee System, Dubuque, Iowa], the I-wall and T-wall structures were identified as being of concern. According to the report, "the following structures would require analysis: 1) Concrete I-Walls; 2) Concrete T Walls; 3) Swinging Gate Type Closures; 4) Concrete Bulkhead Closures; and 5) the Dubuque Harbor Closure including the miter gate."

4. The cost [engineering & construction] to bury 2,200 feet of I-wall and T-wall sections along the south reach of the Dubuque Local Flood Protection Project is estimated to be \$4,000,000.00.
5. According to the USACE June 2010 report, the Dubuque Local Flood Protection Project (DLFPP) has prevented an estimated \$103,955,700 in flood damages, which equates to approximately \$28.9 million per year. Ensuring the effectiveness of the interior drainage system associated with the DLFPP that was engineered and designed in 1965 is critical to preventing flood damage in the next 50 years.

6. The City of Dubuque (IA) remains the local sponsor of the Dubuque Local Flood Protection Project. The City of Dubuque City Council adopted Resolution 75-66 expressing:

- i. The City's willingness to "cooperate in the fullest extent with the U. S. Army Corps of Engineers for the purpose of exacting, constructing, and maintaining" the Dubuque Local Flood Protection Project; and,
- ii. The City has "the statutory and financial capabilities to finance and pay for its share of the cost of the flood control works as determined by the U. S. Army Corps of Engineers."

7. The City of Dubuque has the financial ability to provide the required cost share.