THE CITY OF DUBUQUE
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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

CITY OF DUBUQUE, IOWA INTERIOR DRAINAGE STUDY

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 of the system that was designed fifty years ago will continue to provide flood protection and prevent flood damage.

The interior drainage of the leveed area was designed and established in accordance with EM 1110-2-1410, entitled "Interior Drainage of Leveed Urban Areas: Hydrology," dated 3 May 1965. Outlined therein is that the interior drainage system should be designed so that under gravity flow it can "remove runoff from a rainfall event having a frequency of occurrence of once in 100 years; and under blocked gravity flow conditions, to pond or remove run-off from a rainfall event having a frequency of occurrence in years equal to the percent of time that blocked gravity flow conditions will exist." Both of these conditions have changed since 1965: the predicted runoff from a rainfall event having a frequency of occurrence of once in 100 years is more than what was expected in 1965 and the percent of time that the flood gates are closed has also increased since 1965. Because the foundation on which the interior drainage facilities were designed have changed, the piping systems, pumping stations, and ponding areas associated with the interior drainage systems should be modified accordingly.

4. The cost to review and update the interior drainage analysis, as well as, produce a conceptual design of the interior drainage facilities [piping systems, pump stations, and ponding areas] is estimated to be $190,000.00.

5. According to the a June 2010 report by the U.S. Army Corps of Engineers Rock Island District, 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.