



**SPECIAL PROVISIONS  
FOR  
EMERGENCY ACTION PLAN**

**Pottawattamie County  
IM-NHS-029-3(171)48--03-78**

**Effective Date  
June 18, 2019**

**THE STANDARD SPECIFICATIONS, SERIES 2015, ARE AMENDED BY THE FOLLOWING MODIFICATIONS AND ADDITIONS. THESE ARE SPECIAL PROVISIONS AND THEY SHALL PREVAIL OVER THOSE PUBLISHED IN THE STANDARD SPECIFICATIONS.**

**150512.01 DESCRIPTION.**

- A. Levee Unit Name:** L624/L627 LB Mosquito Creek  
Missouri River - Council Bluffs Flood Protection
- Local Sponsor:** City of Council Bluffs, Iowa
- B.** Borrow Site No. 27 is identified as an available source for obtaining borrow material to construct the roadway embankments. Borrow Site No. 27 is located outside of the “critical area” of the levee, which is defined by the USACE as the area within 300 feet riverward and 500 feet landward of the levee. Excavation slopes at the borrow site must not exceed the angle of repose of the material being mined. Steeper sideslopes may eventually slough and essentially move the banks of the borrow site inside of the critical area, which is not acceptable.
- C.** The stability of the Mosquito Creek banks has been an ongoing maintenance issue for the City of Council Bluffs. Dewatering discharge into the Mosquito Creek must be conveyed in a manner that will avoid erosion of the streambed or bank, be conveyed in a conduit that crosses over the top of the levee, and discharge directly into the Mosquito Creek channel. Ramps are required over the top of the conduit to allow operations and maintenance vehicles both on the levee crest and at the landward levee toe to cross over the top of the conduit. The ramps shall be maintained in a manner that provides a smooth condition for operations and maintenance vehicles to easily cross the conduit, which will require 10% slopes or flatter.
- D.** The purpose of these Special Provisions are to:
- Establish the minimum monitoring requirements,
  - Establish the emergency response in case of a flood event, and
  - Establish the restoration requirements for damage to the levee or creek channel.

**150512.02 CONSTRUCTION REQUIREMENTS.**

**A. Preparation of Emergency Action Plan.**

Prior to installation of the conduit over the top of the levee, prepare an Emergency Action Plan (EAP) which shall be followed during construction to address the requirements presented in this document and the procedures for high-water conditions during dewatering operations at Borrow Site No. 27. The EAP shall include emergency contact information, including cell phone numbers of the project manager, project superintendent, and foreman. The numbers provided shall be monitored 24 hours a day, 7 days a week.

**B. Documentation of Levee Integrity.**

Prior to, during, and after installation of the conduit over the top of the levee and following completion of site restoration, obtain photographic documentation of the levee slopes, ground surface within 15 feet of the levee slopes, levee crest, and Mosquito Creek banks in the area proposed for the conduit. Photographic documentation during dewatering shall be obtained on a weekly basis. Report any noted distress on the levee, streambed, or bank to the Contracting Authority and City of Council Bluffs.

**C. Restoration.**

Upon completion of dewatering, all equipment and materials shall be removed including the ramps over the conduit pipe. The levee slopes, ground surface within 15 feet of the levee slopes, levee crest, streambed, and banks shall be restored to original conditions including reestablishment of the turf.

**D. Submittals.**

The following submittals are required:

- Emergency Action Plan and
- Documentation of Levee Integrity.

Submittals will be reviewed by the City of Council Bluffs and USACE. Allow 2 weeks for review of any submittal or resubmittal by the City of Council Bluffs. Review timeframe by the USACE may be on the order of 9 weeks. Upon approval by the City of Council Bluffs, the Contractor may proceed with work at the Contractor's risk. If the USACE provides additional comments, Contractor will be responsible for addressing and complying with the USACE comments.

**E. Limitations.**

Ensure that the proposed construction will not involve any landward or riverward excavations in the critical area or on the levee that may impact the levee at any time during construction.

**150512.03 CONTRACTOR'S EMERGENCY ACTION PLAN.**

**A. Contents of EAP.**

1. The contents of the Contractor's EAP shall provide all provisions necessary so that the integrity of the levee and its ability to provide flood protection will be maintained throughout the entire duration of dewatering. A site map shall be provided in the EAP that identifies the location of proposed conduit and vehicle ramp crossing locations.

Details shall be provided that show how the conduit will discharge into the Mosquito Creek in a manner that will avoid erosion of the streambed or banks. Details shall include the pipe diameter, outlet distance from bankline, outlet distance above normal water surface, and outlet angle relative to the bankline and water surface. Details shall be provided in both plan view and cross section. Any proposed excavations between the borrow site and the Mosquito Creek to construct the conduit shall be identified.

Details shall be provided that show ramps over the conduit to allow operations and maintenance to cross over the top of the conveyance conduit. Details shall include the thickness, width, slopes, material type, and type and diameter of casing pipe. Details shall be provided in both plan view and cross section.

An estimate shall be provided on the maximum discharge rate and outfall velocity.

A construction schedule shall be provided that details the timeframe of the dewatering operation.

2. The pre-construction photographic documentation shall be provided as an attachment to the EAP.
3. The EAP shall be submitted at least 9 weeks prior to installation of the dewatering discharge conduit over the top of the levee.

#### **B. Procedures.**

The following procedures shall be in place to address an emergency situation:

##### **1. Daily Monitoring.**

The extended forecast of future Missouri River levels, precipitation in the Mosquito Creek drainage basin, and water level of the Mosquito Creek shall be monitored and recorded in the daily construction log.

##### **2. Monitoring Agencies.**

The river level shall be monitored through USGS and National Weather Service website for River Gage - 06610000 Missouri River at Omaha, NE.

- [http://waterdata.usgs.gov/ne/nwis/uv/?site\\_no=06610000&amp](http://waterdata.usgs.gov/ne/nwis/uv/?site_no=06610000&amp)

The Mosquito Creek basin precipitation forecast shall be monitored through the National Weather Service website.

- <http://www.hpc.ncep.noaa.gov/qpf/qpf2.shtml>

##### **3. Emergency Response.**

- a. If the Mosquito Creek rises above its banks or upon notification by the City of Council Bluffs of an emergency situation, discharge into the Mosquito Creek shall cease and the conduit shall be pulled to the landward side of the levee.
- b. Appropriate equipment and personnel shall be provided such that the emergency response can be completed within 4 hours of notification or if a heavy precipitation event occurs at any time of the day.
- c. If operation of the dewatering system causes distress to the levee, banks, or streambed, discharge into the Mosquito Creek shall cease until the system can be modified to prevent damage. The damaged areas shall be immediately restored as directed by the Contracting Authority and City of Council Bluffs.

#### **150512.04 Documentation and Restoration of Levee Integrity.**

##### **A. Pre-Construction.**

Prior to installation of the conduit over the top of the levee, obtain photographic documentation of the levee slopes, ground surface with 15 feet of the levee slopes, levee crest, and Mosquito Creek banks in the area proposed for the conduit. Identify any pre-construction distress on the levee, streambed, or bank.

##### **B. During Construction.**

During dewatering, obtain photographic documentation of the levee slopes, ground surface with 15 feet of the levee slopes, levee crest, and Mosquito Creek banks in the area of the conduit.

Photographic documentation during dewatering shall be obtained on a weekly basis. Report any noted distress on the levee, streambed, or bank to the Contracting Authority and City of Council Bluffs.

**C. Post-Construction.**

1. After removal of the conduit over the top of the levee and following completion of site restoration, obtain photographic documentation of the levee slopes, ground surface within 15 feet of the levee slopes, levee crest, and Mosquito Creek banks in the area removed conduit.
2. The levee slopes, ground surface within 15 feet of the levee slopes, levee crest, streambed, and banks shall be restored to original conditions including reestablishment of the turf.

**D. Report.**

The record of photographic documentation shall be submitted within 6 weeks of the completed restoration.

**150512.05 EMERGENCY CONTACT INFORMATION.**

**A. City of Council Bluffs.**

Jeff Krist, P.E.  
City of Council Bluffs, Public Works Dept.  
290 Pearl Street  
Council Bluffs, Iowa 51503  
Phone: 712-328-4635 (office)  
Email: [jkrist@councilbluffs-ia.gov](mailto:jkrist@councilbluffs-ia.gov)

Pat Miller, Operations Manager  
Phone: 402-510-2700 (cell)

Jeremy Noel, Levee Superintendent  
Phone: 402-968-7301 (cell)

**B. Iowa DOT Resident Construction Engineer.**

David Dorsett, P.E.  
3538 S. Expressway  
Council Bluffs, Iowa 51501  
Phone: 712-366-0568  
Email: [David.Dorsett@dot.iowa.gov](mailto:David.Dorsett@dot.iowa.gov)

**C. Iowa DOT District 4 Construction Engineer.**

Dan Redmond, P.E.  
2210 East 7th Street  
Atlantic, Iowa 50022  
Phone: 712-243-7628  
Email: [Daniel.Redmond@dot.iowa.gov](mailto:Daniel.Redmond@dot.iowa.gov)

**D. USACE – Omaha District.**

24-Hour Emergency Contact  
Phone: (402) 995-2448  
Email: [cenwo-eoc@usace.army.mil](mailto:cenwo-eoc@usace.army.mil)

FRRP Section 408 Coordinator  
Jennifer Gitt  
USACE – Readiness Branch  
1616 Capitol Avenue, Suite 9000

Omaha, Nebraska 68102-4926  
Phone: 402-995-2443  
Email: Jennifer.L.Gitt@usace.army.mil

**E. Contractor.**

Provide primary and secondary contact information for project manager, project superintendent, and foreman.

**150512.05 METHOD OF MEASUREMENT AND BASIS OF PAYMENT.**

All costs for complying with this special provision including the preparation of the EAP, documentation, project coordination, monitoring, emergency actions, and any other item associated with implementation of the EAP shall be considered incidental to the project. No separate payment will be made.