



Iowa Department of Transportation

SPECIAL PROVISION FOR EMERGENCY ACTION PLAN

Pottawattamie County
IM-NHS-029-3(97)48--03-78
IM-NHS-029-3(98)48--03-78
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Effective Date
April 15, 2014

THE STANDARD SPECIFICATIONS, SERIES 2012, ARE AMENDED BY THE FOLLOWING MODIFICATIONS AND ADDITIONS. THESE ARE SPECIAL PROVISIONS AND THEY SHALL PREVAIL OVER THOSE PUBLISHED IN THE STANDARD SPECIFICATIONS.

120048a.01 DESCRIPTION.

- A. Levee Unit Name:** Ag Levee L-624, Section 3 (Mosquito Creek Levee)
Missouri River - Council Bluffs Flood Protection
- Local Sponsor:** City of Council Bluffs, Iowa
- River Miles:** M0.00 to about M1.69
- Levee Stations:** 1010+00 to 1060+00
- Project Name:** Council Bluffs Interstate System – Segment 3
Reconstruction of I-29 / I-80 East System Interchange
and Railroad Consolidation
Pottawattamie County, Iowa
- B.** The Iowa DOT is proceeding with the reconstruction of the I-29 / I-80 East System Interchange (Segment 3) as a part of the Council Bluffs Interstate System. The work for Segment 3 involves the construction of new roadway embankments and bridge structures. The levees affected by this construction is the Agricultural Levee L-624, which was a part of the Council Bluffs Flood Protection System that was originally designed and constructed by the Omaha District of the U.S. Army Corps of Engineers (USACE) in the early 1950s. A large portion of the interstate reconstruction will take place within 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.

The work covered by this Emergency Action Plan (EAP) addresses the removal of bridge foundations and embankments, water main, storm sewer pipe, and sanitary sewer pipe and construction of roadway embankments including ground improvements bridge structures, storm

sewer, and sanitary sewer within the Mosquito Creek levee critical area. The ground improvements consist of below grade concrete columns that will be used to support the new embankments.

120048a.02 CONSTRUCTION.

A. Preparation of Emergency Action Plan.

Prior to construction, prepare and follow an EAP which will address the requirements presented in this document and the procedures for high water conditions during construction. The EAP shall include emergency contact information, including cell phone and pager numbers of the project manager, project superintendent and foreman. The numbers provided shall be monitored 24 hours a day, 7 days a week. Separate EAPs shall be prepared for the **Water Main**, Sanitary Sewer and Storm Sewer Construction and Removals, each.

B. Submittals.

Any changes proposed by the contractor that might impact the levee, such as changes to staging, excavation depths, shoring, haul routes, or levee access, must be submitted to the Engineer for approval.

Submittals for contractor proposed changes, EAPs, excavation shoring designs, or temporary bridge designs in the levee critical area may be reviewed by both the Engineer and the City of Council Bluffs. Allow 4 weeks for review of these submittals.

C. Staging.

1. All construction related to the piggy-back levee must be substantially complete prior to the commencement of any excavations within the existing levee section. See staging plans for additional details and requirements.
2. The Iowa DOT, City of Council Bluffs representatives, and the Engineer shall be notified 1 week prior to construction of the piggy-back levee and at the completion of the piggy-back levee construction operations at least 1 week prior to beginning any excavations within the existing levee section.
3. Approval for the substantially complete levee work will include review of:
 - a. The earthwork grading and
 - b. Compaction test results for the embankments.

D. Limitations.

Ensure that the proposed construction will not involve any additional landward or riverward excavations in the critical area that may impact the levee at any time during construction except as shown in the approved plans and specifications.

E. Survey.

Survey the levee a minimum of 50 feet of each side of the levee access and levee restoration areas. The levee shall be surveyed prior to construction activities and after restoration of the disturbed areas. The results of the survey should be provided to the Engineer prior to demobilization. Areas determined to be deficient by the Engineer shall be immediately repaired and confirmed by survey. Survey information should be reported in a table format with levee stations and elevations presented along the levee centerline at 25 foot intervals.

120048a.03 EMERGENCY ACTION PLAN.

A. Contents of Emergency Action Plan.

1. The contents of the EAPs will present a detailed staging plan and all provisions in the contract documents so that the integrity of the levee system and its ability to provide flood protection will be maintained throughout the entire duration of construction. The location of stockpiles that will be available for emergency backfill will be provided on a site map. The EAPs shall be submitted at least 21 days prior to construction within the critical area.
2. The proposed construction will be performed during flood and non-flood event periods, including the work on the top, riverside and landside of the existing levee. The potential does exist for the river to rise to flood level during the proposed construction and provisions will be in place to address this potential.

B. Procedures.

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

1. Daily Monitoring.

The water level in the Missouri River shall be monitored on a daily basis by the Contractor and the Iowa DOT. The extended forecast of future river levels shall also be monitored.

2. Monitoring Agencies.

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

- http://waterdata.usgs.gov/ne/nwis/uv/?site_no=06610000&
- <http://www.riverwatch.noaa.gov/forecasts/OAXRDOAX.php>

3. Ceasing Operation.

Construction operations will cease in the event the river levels are within 5 feet of the published flood stage of 29 feet (Elevation 974.4 feet). The 100-year flood elevation at this location is 981 feet. The 500-year flood elevation is 983.0 feet.

4. Construction Equipment.

Provide a list of all construction equipment that will be present throughout the duration of construction within the critical area. All equipment, construction materials and stockpiled soils will be removed in the event of high water and relocated to the landside of the levee during high water events.

5. Emergency Backfilling.

During excavation construction of the water main, sanitary sewer, storm sewer, drilled shafts or rigid inclusions, if the river level reaches an elevation within 5 feet of the published flood stage of 29 feet (Elevation 974.4 feet), emergency backfilling shall be commenced. The rate of emergency backfilling shall exceed the rate of the rising river. Soils excavated shall be used as emergency backfill. Concrete or soil can be used as emergency backfill for the ground improvements and drilled shafts.

120048a.04 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

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

Chuck Pendegraf, Levee Superintendent
Phone: 402-510-3675 (cell)

B. IDOT Resident Construction Engineer.

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

C. IDOT District 4 Construction Engineer.

George Feazell, P.E.
2210 East 7th Street
Atlantic, Iowa 50022
Phone: 712-243-3355
Email: George.Feazell@dot.iowa.gov

D. Designer Contact.

Patrick H. Poepfel, P.E.
HDR, Inc.
8404 Indian Hills Drive
Omaha, Nebraska 68114
Phone: 402-399-1368
Email: Patrick.Poepfel@hdrinc.com

E. USACE – Omaha District.

Chris Horihan, P.E.
USACE – Readiness Branch
1616 Capitol Avenue, Suite 9000
Omaha, Nebraska 68102-4926
Phone: 402-995-2700
Email: Christopher.j.horihan@usace.army.mil

120048a.05 METHOD OF MEASUREMENT AND BASIS OF PAYMENT.

All costs for complying with this special provision shall be considered incidental to the project. No separate payment will be made.