



**SPECIAL PROVISION
FOR
EMERGENCY ACTION PLAN**

**Pottawattamie County
IM-NHS-80-1(309)2--03-78
IM-NHS-80-1(367)2--03-78
IM-NHS-80-1(368)2--03-78
IM-NHS-80-1(369)2--03-78**

**Effective Date
May 21, 2013**

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.

120053.01 DESCRIPTION.

- A. Levee Unit Name:** Council Bluffs Levee Unit II, Sections 2 and 3 (Indian 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:** 504+00 to 508+00
- Project Name:** Council Bluffs Interstate System – Segments 2 and 3
Reconstruction of I-29 / I-80
Pottawattamie County, Iowa
- B.** The Iowa DOT is proceeding with the reconstruction of the I-29 / I-80 West System Interchange (Segment 2) and the East System Interchange (Segment 3) as a part of the Council Bluffs Interstate System. The work for Segments 2 and 3 involves the construction of new roadway, bridge structures, roadway lighting and signing that will penetrate the earthen embankment and foundation soils of the Indian Creek Levee.
- C.** The levees affected by this construction include the Council Bluffs Levee Unit II, Sections 2 and 3, which were 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 1950's. A 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 addresses the removal of bridge foundations and sign foundations and construction of roadway embankments including ground improvements, bridge structures, lighting structures and sign structures within the Indian Creek levee critical area. The ground improvements consist of below grade concrete columns that will be used to support the new embankments.

120053.02 CONSTRUCTION REQUIREMENTS.

A. Preparation of Emergency Action Plan.

Prior to construction, the General Contractor shall prepare and follow an Emergency Action Plan (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.

B. Levee Construction Staging.

1. All construction related to the temporary impervious 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 Department of Transportation, City of Council Bluffs representatives, and the Engineer shall be notified 1 week prior to construction of the temporary impervious levee and at the completion of the temporary impervious 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.
4. Excavation within the existing levee section can only commence after written approval by the Engineer. Written approval will be granted after the temporary impervious levee has been constructed and accepted by the Engineer.

C. Construction Limitations.

The General Contractor shall 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.

D. Survey.

The General Contractor shall survey the levee in the area that roadway embankment will be installed on the levee section and 50 feet beyond. The levee shall be surveyed prior to construction of roadway embankment and after completion of the embankment. The results of the survey should be provided to the Engineer prior demobilization. Areas determined to be deficient by the Engineer shall be immediately restored to the original existing condition 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.

120053.03 CONTRACTOR'S EMERGENCY ACTION PLAN.

A. Contents of EAP.

1. The contents of the Contractor's EAP 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 Contractor's EAP 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 General 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 982.7 feet. The 500 year flood elevation is 984.0 feet. The City of Council Bluffs and the USACE representatives will be notified prior to resumption of construction.

4. Construction Equipment.

The General Contractor shall 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 for the load transfer blanket and the construction of the ground improvements, if the river level reaches an elevation within 3 feet of the base of any excavation, emergency backfilling shall be commenced. The rate of emergency backfilling shall exceed the rate of the rising river. Soils excavated for the load transfer blanket shall be used as emergency backfill. Concrete or soil can be used as emergency backfill for the ground improvements.

120053.04 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 Superintendant
 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. Poepsel, P.E.
HDR, Inc.
8404 Indian Hills Drive
Omaha, Nebraska 68114
Phone: 402-399-1368
Email: Patrick.Poepsel@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

120053.05 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.