SP-150658
(New)

SPECIAL PROVISION
FOR
EMERGENCY ACTION PLAN

Pottawattamie County
IM-029-3(183)53--13-78
IM-029-3(184)53--13-78
IM-NHS-029-3(68)53--03-78
IM-NHS-029-3(141)53--03-78
IM-NHS-029-3(142)53--03-78

Effective Date
August 18, 2020

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.

150658.01 DESCRIPTION.

A. **Levee Unit Name**: Council Bluffs Levee Unit II, Section 1
Missouri river – Council Bluffs Flood Protection
Local Sponsor: City of Council Bluffs, Iowa
River Miles: M0.00 to about M0.20
Levee Stations: 410+00 to 428+24

Project Name: Council Bluffs Interstate System – Segment 2
Reconstruction of I-29 and Nebraska Avenue Interchange
Contract Package D-1
Pottawattamie County, Iowa

B. The Iowa Department of Transportation is proceeding with the reconstruction of the I-29 and Nebraska Avenue Interchange (Segment 2) as a part of the Council Bluffs Interstate System. The work for Segment 2 involves the construction of new roadway, bridge structures, roadway lighting, and traffic sign structures. A large portion of the construction 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.

C. The levee affected by this construction is the Council Bluffs Levee Unit II, Section 1, 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.

D. The City of Council Bluffs operates a private industrial levee riverward of the federal levee. The top of the private industrial levee is about 3 feet lower than the federal levee.

E. The purpose of this Special Provision is:

- To identify the submittals required by the Contractor for compliance with the Section 408 submittal to the United States Army Corps of Engineers (USACE) (A copy of the Section 408 submittal is available from the Engineer),
- State the Section 408 submittal limitations on work in the levee critical area,
- 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 critical area.

150658.02 CONSTRUCTION REQUIREMENTS.

A. Preparation of Emergency Action Plan.

1. The proposed construction will be performed during flood and non-flood event periods. The potential does exist for the Missouri River to rise to flood level during the proposed construction and provisions will be in place to address this potential.

2. Prior to construction, the 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. Submittals.

1. The following submittals are required:

- Emergency Action Plan,
- Pre-Construction Survey,
- Post-Construction Survey,
- Shoring Plan,
- Dewatering Plan,
- Distress Mitigation Plan, if needed, and
- Proposed modifications to the approved plans and specifications, if needed.

2. Submittals will be reviewed by the Engineer, the City of Council Bluffs, and the USACE. Allow 9 weeks for review of any submittal or resubmittal.

3. Survey the levee crest, slopes, and area extending 25 feet landward and riverward of the levee slopes a minimum of 100 feet beyond the area that will be accessed by the Contractor. The survey shall be completed prior to construction activities, after restoration of the disturbed areas, and as requested by the Engineer to document observed distress. The survey results shall be provided to the Engineer as soon as they are available. The results of the post-construction survey shall be provided to the Engineer prior demobilization. Areas determined to be deficient by the Engineer shall be immediately repaired and confirmed by survey. Survey information shall be reported in a table format with levee stations and elevations presented along the levee centerline at 25-foot intervals and in graphical format in plan and profile view and cross-sections at 25-foot intervals. The plan view shall show the levee centerline, levee station, and 1-foot elevation contours. The profile view shall show the elevation at the levee centerline. The Engineer will provide the alignment and stationing of the levee.

4. The Engineer will complete a pre-construction and post-construction inspection to identify any observable signs of distress including: rutting, cracks, lack of sod cover, settlement, erosion, or stability issues on the levee or riverside stream bank areas. If the post-construction inspection identifies any observable sign of distress that was the result of the Contractor, the area shall be repaired to pre-construction conditions by the Contractor. The Contractor will

prepare a submittal detailing the proposed repair method. The submittal will be reviewed by the Engineer, the City of Council Bluffs, and the USACE. Construction shall not begin until the City of Council Bluffs and the USACE have accepted the submittal. Allow 9 weeks for review of the submittal.

5. Any modifications to the approved plans and specifications proposed by the Contractor for construction activities located in the levee critical area, such as: changes to staging, excavation depths, shoring, haul routes, levee access, addition of a temporary stream crossings, or groundwater dewatering must be submitted to the Engineer for approval.

C. Limitations.

The Contractor must 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.

150658.03 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. A site map shall be provided in the EAP that identifies the location of:

- Drainage District Right-of-Way (provided by the Engineer),
- Levee centerline with stationing (provided by the Engineer),
- 500 foot landward and 300 foot riverward critical area (provided by the Engineer),
- Proposed haul routes, and
- Proposed construction within the levee critical area.

2. The pre-construction survey, shoring submittal, and dewatering submittal shall be provided in the EAP.

3. The EAP shall be submitted at least 9 weeks prior to construction within the levee critical.

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 recorded in the daily construction log. The extended forecast of future river levels shall also be monitored and recorded in the daily construction log. The Contractor shall be able to react quickly to the required actions described in this Special Provision.

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&amp
- http://www.riverwatch.noaa.gov/forecasts/OAXRDOAX.php

3. Ceasing Operation.

a. Construction operations near the levee shall cease in the event the river levels reach the published action level of 25 feet as per the following:

- The excavation on the riverward side of the levee shall cease and the excavation shall be emergency filled. The excavation on the landward side of the levee shall cease and shall be continuously observed for seepage, sloughing and other distress to the levee

and foundation soils. The Contractor may continue to work if the excavation on the landward side of the levee is complete and there are no indications of distress as determined by the Engineer and the USACE.

- If dewatering is being performed with dewatering wells, then the wells shall be continuously pumped unless the excavation is backfilled or as directed by the Engineer and the USACE.
- If water is observed to enter the excavation resulting in sloughing or excessive seepage, then all work shall cease within the excavation and the excavation shall be backfilled.

b. Coordinate with the Engineer, City of Council Bluffs, and USACE to determine timing and sequence of activities, as appropriate for returning to working following the receding of flood waters. When the flood waters recede and if repairs are needed, complete repairs, as directed by the Engineer, City of Council Bluffs, and USACE. Remove debris that has been deposited in the work areas.

4. Construction Equipment.
The Contractor shall provide a list of all construction equipment and material stockpiles that will be stored on the riverward side of the levee. All equipment, construction materials and stockpiled soils on the riverward side of the levee will be removed in the event the river levels reach the published flood stage of 29 feet.

5. Emergency Backfilling.
The rate of emergency backfilling shall exceed the rate of the rising river. Excavated soil shall be used as emergency backfill. The Contractor shall provide a list of all construction equipment that will be available on-site for emergency backfilling of excavations.

150658.04 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)

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

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

D. Section 408 Engineer.
Patrick H. Poepsel, P.E.
HDR, Inc.
1917 S. 67th Street
Omaha, NE 68106
Phone: 402-399-1368
Email: Patrick.Poepsel@hdrinc.com

E. USACE – Omaha District.
24-Hour Emergency Contact
Phone: (402) 995-2448
Email: 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

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

150658.05 METHOD OF MEASUREMENT AND BASIS OF PAYMENT.
All costs for complying with this special provision including the preparation of the EAP, inclusion of submittals with the EAP, 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.