



**SPECIAL PROVISIONS
FOR
EMERGENCY ACTION PLAN**

**Woodbury County
STP-U-7057(701)--70-97
BHM-7057(692)--8K-97**

**Effective Date
November 20, 2018**

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.

153006.01 DESCRIPTION.

- A.** The work involves the construction of new roadway, storm sewer, sanitary sewer, water line, and roadway lighting structures along the Military Road corridor and reconstruction of the bridge deck for the bridge crossing the Big Sioux River. A portion of the construction will take place within the “critical area” of the levee system, which is defined by the USACE as the area within 300 feet riverward and 500 feet landward of the levee.
- B.** The levees affected by this construction include the left bank and right bank levees of the Big Sioux River Flood and Erosion Protection Project, which are part of the levee system originally designed and constructed by the Omaha District of the U.S. Army Corps of Engineers (USACE) in the late 1970s and early 1980s.

Levee Unit Name: Big Sioux River Flood and Erosion Protection Project
At Sioux City, Iowa and South Dakota

Local Sponsor: City of Sioux City, Iowa (Left Bank Levee)
City of North Sioux City, South Dakota (Right Bank Levee)

Levee Stations: 9+07L and 83+38R

Channel Stations: 136+51C

- C.** The purpose of these Special Provisions is to maintain the integrity of the levee system and comply with the requirements of the USACE by:
- Identifying the submittals required by the Contractor for compliance with the Section 408 submittal to the USACE (a copy of the Section 408 submittals is available from the Engineer),
 - Stating the Section 408 submittal limitations on work in the levee critical area,
 - Establishing the minimum monitoring requirements, and
 - Establishing the emergency response in case of a flood event.

153006.02 CONSTRUCTION.

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 Big Sioux River to rise to flood level during the proposed construction and provisions shall be in place to prepare for and react to this potential.
2. Prior to construction, the Contractor shall prepare 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, and
 - Proposed modifications to the approved plans and specifications, if needed.
2. Submittals will be reviewed by the Engineer, the local sponsor, and the USACE. Allow 9 weeks for review of any submittal or resubmittal.
3. Survey the levee riverward toe area extending to the Big Sioux River waterline, levee crest, and slopes and levee landward toe extending 50 feet landward of the levee toe a minimum of 100 feet beyond the area that will be access 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 to demobilization. Areas determined to be deficient by the Engineer shall be immediately repaired and confirmed by survey. Areas of settlement and sloughing will be analyzed by the Engineer, as needed, to determine the causes of settlement or sloughing prior to restoration efforts. 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.
4. 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 causeway, groundwater dewatering, or pumping water from the Big Sioux River must be submitted to the Engineer for approval.

C. Limitations.

1. 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.
2. No equipment or materials will be allowed to be stored on the levee or on the riverside of the levee.

3. No heavy equipment will be allowed to operate on or between the levees.

153006.03 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:
 - Project and Levee Right-of-Way (provided by the Engineer),
 - Levee centerline with stationing (provided by the Engineer),
 - 500 foot landward critical area (provided by the Engineer),
 - Proposed haul routes,
 - Proposed construction within the levee critical area, and
 - Proposed levee access locations (if any).
2. The EAP shall be submitted at least 9 weeks prior to construction within the levee critical area.

B. Procedures.

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

1. Daily Monitoring.

The water level in the Big Sioux River shall be monitored on a daily basis by the Contractor and recorded in the daily construction log. The extended forecast of precipitation in the Big Sioux River drainage basin 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, if a heavy precipitation event occurs at any time of the day.

The Engineer and the Local Sponsor shall be notified if flood waters in the Big Sioux River come into contact with the levee within the construction limits.

2. Monitoring Agencies.

The existing United States Geologic Survey (USGS) stream gage on the Big Sioux River, located on the Military Road bridge, will be removed by the USGS and temporarily reinstalled upstream. Coordinate with the USGS to obtain access to the stream gage readings at the temporary location.

3. Ceasing Operation.

Construction operations will cease in the event the river levels at the Military Road bridge reach Elevation 1089 feet.

Coordinate with the Engineer, Local Sponsor, and USACE to determine timing and sequence of activities, as appropriate for returning to working following the receding of flood waters.

4. Construction Equipment.

The General Contractor shall provide a list of all construction equipment that will be present and available for emergency backfilling throughout the duration of construction within the critical area.

5. Emergency Backfilling.

Emergency backfilling shall be commenced, if the river level at the Military Road Bridge reaches Elevation 1089 feet. The rate of emergency backfilling shall exceed the rate of the rising river. Excavated soil shall be used as emergency backfill.

153006.04 EMERGENCY CONTACT INFORMATION.

A. City of North Sioux City.

Ted Cherry.
City of North Sioux City.
504 River Drive
North Sioux City, South Dakota
Phone: 605-232-4276
Email: Ted.Cherry@northsiouxcity-sd.gov

B. City of Sioux City.

Gordon Phair.
City of Sioux City.
405 6th Street
Sioux City, Iowa
Phone: 712-279-6324
Email: gphair@sioux-city.org

C. Iowa DOT Resident Construction Engineer.

Dean Herbst, P.E.
4611 US 75 N
Sioux City, Iowa 51108
Phone: 712-239-1367
Email: Dean.Herstb@iowadot.us

D. Iowa DOT District 3 Construction Engineer.

Darwin Bishop, P.E.
2800 Gordon Drive
Sioux City, Iowa 51102-0987
Phone: 712-274-5826
Email: Darwin.Bishop@iowadot.us

E. Section 408 Engineer.

Bryan P. Kumm, P.E.
HDR, Inc.
8404 Indian Hills Drive
Omaha, Nebraska 68114
Phone: 402-399-1147
Email: Bryan.Kumm@hdrinc.com

F. 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

G. Contractor.

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

153006.05 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.