

WOODBURY COUNTY BOARD OF SUPERVISORS AGENDA ITEM(S) REQUEST FORM

Date: 01/30/2025 Weekly Agenda Date: 02/04/2025

ELECTED OFFICIAL / DEPARTMENT HEAD / CITIZEN: Laura Sievers, PE, Woodbury County Engineer

WORDING FOR AGENDA ITEM:

Information for the Bennet McDonald & Smithland DD

ACTION REQUIRED:

Approve Ordinance

Approve Resolution

Approve Motion

Public Hearing

Other: Informational

Attachments

EXECUTIVE SUMMARY:

Please see the information on the BMS DD

BACKGROUND:

Woodbury County BMS DD had damage that is needing repaired. The consultant has provided an update to the work that needs to be completed.

FINANCIAL IMPACT:

None.

IF THERE IS A CONTRACT INVOLVED IN THE AGENDA ITEM, HAS THE CONTRACT BEEN SUBMITTED AT LEAST ONE WEEK PRIOR AND ANSWERED WITH A REVIEW BY THE COUNTY ATTORNEY'S OFFICE?

Yes No

RECOMMENDATION:

Information only.

ACTION REQUIRED / PROPOSED MOTION:

Information only

RE: BMS LEVEE PROGRESS UPDATE #1

Acting Trustees:

We have completed our surface damage assessment of the BMS levee system. This includes Lidar drone flight with georeferenced imagery to be used for future repairs and continual monitoring of deterioration. This also includes a complete inventory of pipe inlets and outlets noting current conditions.

IMMEDIATE ACTION

There are several pipes which outlets are completely silted shut and will impede drainage from adjacent grounds which will cause localized flooding if not immediately addressed. Photos of the sedimented pipe outlets are below.



Figure 1: Pipe silted shut (front)



Figure 2: Pipe silted shut (side view)



Figure 5: Pipe silted shut



Figure 3: Pipe silted shut



Figure 4: Pipe silted shut



Procedure to Complete

Preliminary costs of the sediment removal are less than \$5,000 and does not meet the minimum threshold for competitive quotation (\$50,000) per Iowa Code 468.126 or Chapter 26.

In addition, landowner notice need not be provided nor does a hearing need to be held to complete the work. Removal of sediment is considered regular operation and maintenance and the USACE need not be notified either.

Therefore, a simple scope of work with estimate reference information and location information will be provided to two (2) contractors who have insurance on file with the county and equipment (long reach excavator and haul unit) capable to perform the work.

The time to complete will be April 1, 2025 or as soon as the frost allows.

We will review the flap gates and internal sedimentation once the outlet is cleared to ensure proper operation. Should there be issues with operation of the culverts, we will work with the County Engineer to address.

DISCUSSION & CONSIDERATIONS

Emergency Preparedness

We will be providing recommendations for emergency preparedness in case of an adverse event or heavy snowmelt. These recommendations will likely require a staging area nearby where riprap can be staged without the need for long trucking to shorten response time. We will be in communication with the Woodbury County Engineer's office and Emergency Management office to discuss a best approach and coordinate with landowners.

USACE EMERGENCY RESPONSE

It is my understanding that the USACE uses the NOAA 10day forecast and snowmelt prediction models to determine adverse weather events which allows for immediate emergency action. In the event of predicted heavy rainfall, 10 days is most likely not enough to source and transport any significant quantity of material necessary to accommodate a failure of the levee system north of IA-141 or around a culvert on the westside of the ditch.

EMERGENCY ACTION PLAN

As part of the overall emergency preparedness, we will be assessing the District's Emergency Action Plan and what updates are needed.

Regular Progress Updates

With the completion of the field work, I will be providing a monthly update on progress until a landowner meeting can be held.

Sincerely,

Caleb Rasmussen, PE
Civil Engineer

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