

Minutes of Special Meeting
Of the Board of Managers
Of the Lower Heart River WRD
August 20, 2024

Meeting was called to order at 3:00 PM.

Roll call: Present are Mitch Bitz, Ryan Jockers, Alan Kemmet, Bill Robinson, Luci Snowden and Carol Beechie. All are call in.

Also in attendance are Dennis Reep, Bryan Kumm, and Dan Vander Vorste from HDR Engineering. All are call in.

Levee Reach along Mandan Municipal Golf Course – Bryan Kumm, HDR Engineering, presented Golf Course Levee Improvement Operations – Cost Comparison – Phase 2 information. Hydraulic considerations during the Conditional Letter of Map Revision review, have resulted in an update to the design flood elevation. Review of the updated design flood elevation identified a new mitigation area adjacent to the municipal golf course that will require a levee raise to meet freeboard criteria. The approximate limits of the levee raise are from Station 16+25 to 30+00. The maximum levee raise is approximately 1 foot. Preliminary geotechnical analysis indicated both underseepage and slope stability deficiencies that will require mitigation to meet stability criteria. Potential mitigation options to meet the stability criteria include:

1. Install a landside seepage/stability berm. The width of the berm will need to be approximately 150 feet. The thickness of the berm will need to be approximately 5.5 feet at the levee and 2.5 feet at the landside end of the berm. The seepage berm material could consist of lean clay, silt or sand.
2. Install a seepage cutoff wall along the levee. The seepage cutoff wall would need to extend into a confining layer beneath the pervious sand layer, which is expected to be encountered at a depth of approximately 60 feet below existing grade. The seepage cutoff wall would consist of a soil-bentonite slurry wall.
3. Install pressure relief wells along the landward toe to intercept excessive seepage. The relief wells would need to extend to the bottom of the pervious sand layer, which is expected to be at a depth of approximately 60 feet below existing grade. A collector pipe would need to be connected to the wells and then discharge to a pumped sump. The sump would need to be sized large enough and deep enough such that the pumping is able to maintain free flowing of the collector pipe discharge into the sump during a flood event.

A memo was presented which provided a comparison of the potential options and evaluates them based on cost, schedule, impacts to recreation resources, effectiveness, and operation and maintenance requirements.

Bryan Kumm reviewed the pros and cons for each mitigation option with the Board. The board discussed the three options and agreed that the stability berm (option 1) is the better option. The board wants to meet with the Mandan Park District (Cole Higlin and Garrett Schultz) to discuss further and to discuss further at the board meeting on Tuesday, August 27th.

Mitch Bitz made a motion that the Board conduct an executive session under NDCC 44-04-17.1, 44-04-19.1, and 44-04-19.2 to discuss ROW negotiations on various parcels, seconded by Luci Snowden. Motion passed unanimously.

Executive Session began at 3:35 PM.

Executive Session ended at 4:07 PM. Lower Heart returned into open session and the public was invited to return.

Mitch Bitz made a motion to accept the counter offer by Mr. Scott Johnson in the amount of \$91,694.80 and to not pursue the permanent easement on the private road at this time. Motion was seconded by Alan Kemmet. A roll call vote was performed with the board voting in favor of accepting this motion.

The Board adjourned at 4:11 p.m.

Chairman

Secretary/Treasurer