



Legislation Text

File #: 2018-0638, **Version:** 1

Title

Butterfield Pond Restoration - Proposal

History

Butterfield Pond, located in the Orland on the Green Unit 1 subdivision (135th Street and 88th Avenue), was constructed in the mid-1970's. Over the past 40 years, the 30" corrugated metal pipe (CMP) that controlled the stormwater flows out of the pond had significantly deteriorated. The pipe eventually collapsed causing several sink holes in the area and trapped debris. The outlet could not function as designed, restricting flow, artificially raising the water level and holding more water back in the detention pond and upstream in the tributary creek fed from Parkview Estates, Villa West, Evergreen View and other surrounding areas. This outlet pipe needed to be replaced in order to maintain the necessary detention and allow the upstream areas to pass through the pond.

In February of 2017, the CMP was replaced with a new reinforced concrete pipe and the water in the pond dropped to the normal level restoring the ponds storage capacity for any following storm events. The unfortunate consequence of reestablishing the pond to its correct water level was that it had exposed years of erosion, sedimentation and debris. The result was unsightly and the pond was unable to support the aquatic wildlife that had thrived there for decades. Staff from Public Works and Parks cleaned up the area by removing trash, cutting back or eliminating trees, and replacing necessary signs around the pond perimeter.

The following summer yielded infrequent rains and the pond began drying up. Its deepest depth was measured at thirteen (13) inches. Public Works received numerous complaints from nearby residents concerned about the dying fish and the odors left behind. They were unhappy with the aesthetics resulting from a fraction of the water left as opposed to what they were accustomed to viewing: a full pond. Residents requested that the pond be restored back to its original 1970's condition. This is exceptionally difficult and cost prohibitive partially due to the very limited access to the site.

In May of 2018, Public Works enlisted the services of V3 Engineering, of Woodridge, Illinois; to develop a solution following today's Best Management Practices (BMP's). An Open House at Butterfield Pond was held in June where residents were invited to view an exhibit (see attached Exhibit 1) illustrating what the pond would look like with a combination of deeper water combined with surrounding shallows thriving with aquatic vegetation. This was overwhelmingly rejected by the residents as they preferred to see an unobstructed view of open water from their property. V3 developed two more exhibits (see attached Exhibit 2 & Exhibit 3). The impact to increasing the open water requires an additional \$50,000.00 for either of these options. Feedback from residents was solicited and the choice of the majority was for Exhibit 2. It provided the least restricted view while maintaining the minimal depth requirements for aquatic life. Staff received a proposal for the work from V3 Engineering in the amount of \$299,975.00. Staff recommends utilizing the construction services of V3 Engineering of Woodridge, Illinois to rehabilitate the Butterfield Pond as indicated in Exhibit 2 for a cost of \$299,975.00 plus \$15,025.00 contingency for a total cost of \$315,000.00.

On September 17, 2018, this item was reviewed by the Public Works Committee and recommended for approval and referred to the Village Board of Trustees for consideration.

Financial Impact

Funds to complete this project are available in the Water and Sewer Fund, account 031-6007-443500.

Recommended Action/Motion

I move to approve to waive the bid process;

And

Approve accepting the proposal for the Butterfield Pond restoration from V3 Engineering of Woodridge, Illinois, in an amount of \$315,000.00 (\$299,975.00 plus \$15,000.00 contingency).