

CITY OF TROY
PUBLIC WORKS COMMITTEE MEETING
MINUTES

Wednesday, July 12, 2021, 6:00pm

MEMBERS PRESENT: Dan Dawson (Chair), Troy Turner, Nathan Henderson, Tim Flint

MEMBERS ABSENT: None

OTHERS PRESENT: Mayor David Nonn, City Administrator Jay Keeven, Debbie Knoll, Elizabeth Hellrung, Rob Hancock, Tom Cissell, Kim Thomas, Andrea Lambert

Chairman Dawson called the meeting to order at 6:00pm. All committee members were present.

The minutes of the previous meeting were presented for approval. Moved by Dawson to approve as presented. Second by Turner. Unanimous voice vote to approve.

Discussion on Zenk Road Drainage Issues:

City Engineer Tom Cissell briefed the committee on four options to reduce the flow in the Zenk/Bargraves area. The Bargraves detention basin (north of Edwardsville Road/west of Bargraves Boulevard) takes drainage to Zenk Culvert.

Option 1: Increase the Bargraves detention basin (pond) by 10%. No additional flow would go into the basin. Modify/modernize the outlet structure to control the flow. This option would decrease the flow by about 6-9%, depending on the type of storm event. This is the most minimalistic solution and would cost approximately \$70K.

Option 2: Same as Option 1 except it would also reroute the Buckeye storm sewer to dump into the Bargraves basin. This adds more runoff into the basin from the Buckeye area, which currently goes directly into the Zenk culvert. The basin/pond would need to be increased more than 10% for this option, which would decrease flow by up to 20%. Approximate cost is \$150K.

Option 3: This adds to Option 2, increasing the length of the basin to the north by 50 feet. It would add more runoff into the basin from Buckeye and Briarwood areas (diverting the current path which runs directly into the Zenk culvert). This option which would decrease flow by up to 25% and would also decrease flooding at the Briarwood intersection. Approximate cost \$200-225K.

Option 4: Dam up the ditch and create a second new pond/basin that would take in Buckeye, Briarwood, and Prairie. Increase the existing basin, adding the runoff from Buckeye. This option would have the added benefit of controlling the runoff from Briarwood and Prairie. According to Engineer Cissell, this option does not add additional benefit and is the most expensive, at a estimated cost of \$300K. He does not recommend it.

In summary, Option 3 does the most but Option 2 provides a lot of value at a lower cost. Option 3 could potentially resolve the issues at Zenk Culvert AND correct flooding issue at the Briarwood intersection.

The council and Mr. Cissell also discussed erosion control in the yards of residents along the creek. Engineer Cissell stated that the erosion is not caused by flow; it is caused by velocity. If the city can slow the flow through one of the four listed options, we can decrease or minimize erosion of the residential yards.

The city cannot restore yards, which are private property. There are no easements in this area. If funding can be sourced, the city can, however, shore up Zenk culvert by adding riprap and modernize the outlet structures at the basin and the culvert to decrease velocity of the flow.

The committee agreed with Engineer Cissell's recommendation to add riprap at Zenk culvert, and planning for future modified outlet structures and other work identified in Option 3 when funding can be sourced. This recommendation will be presented to the city council.

Motion to adjourn.

Motion: Flint

Second: Henderson

Motion approved by unanimous voice vote. Meeting adjourned at 7:19 pm.

/kat