

From: Nick Jordan [<mailto:njordan@interfluve.com>]
Sent: Thursday, April 29, 2021 10:31 AM
To: David De Angelis <ddeangelis@elmgroviewi.org>
Cc: Marty Melchior <mmelchior@interfluve.com>
Subject: Underwood Creek concepts

Hi Dave,

Thanks to you and Richard for your time this morning. Attached are the concept design sheets I showed this morning, as well as the concept-level cost estimates for each alternative. Since we haven't gotten too far into design at this stage, the cost estimates include the following assumptions:

- We assume straightforward flow management/dewatering would be required, as opposed to longer-term pumping around the work area.
- The concepts reflect our understanding of hydraulic forces from the existing flood models for the reach.
- The cost estimate for Alt 2 does not include backwater pike spawning areas, which could add minor costs associated with emergent vegetation and fine grading.

One final note is a reminder that our scope currently assumes a permitting path in line with Alt 1. If we were to move forward with Alt 2, we would need additional scope to meet DNR/USACE permitting requirements in addition to flood mapping revisions (assuming they are required).

Please let me know if any questions come up, and I look forward to discussing these more with you.

Thanks,
Nick



Nick Jordan, EIT

Staff Engineer

njordan@interfluve.com | Direct 608-490-8300

1539 Grand Avenue, 2nd Floor | St. Paul, MN 55105

Main 651-243-9700 | Fax 541-201-2919 | Cell 262-707-1635