From:	Kris Zembrodt
To:	Teresa Barnes
Cc:	Jonathan Evans
Subject:	Skyline Ross Twp Drainage Calculations
Date:	Thursday, September 14, 2017 4:07:59 PM
Attachments:	image001.png Skyline Ross Twp 09-14-2017.pdf 17110-SKYLINE-ROSS-091417.pdf DetentionCalcsPrelim-091417.pdf

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Good afternoon Teresa,

Attached are a set of plans and some preliminary calculations for a new restaurant building with an underground detention system in Butler County. Could you take a look at these just to make sure we are heading in the right direction with the design according to Butler County's regulations?

We used the Butler County Modified Critical Storm method, with an estimated 1-year 24-hour rainfall depth of 2.4" to find the critical storm to be the 50-year storm. Then used Hydraflow to design a system that would limit the release rates of all storms up to the 50-year storm to the release rate of the pre-developed 1-year storm, and to limit the 100-year storm release rate to the pre-developed 50-year storm release rate.

More details will be provided later but just wanted check to see if the design would acceptable in concept before spending time on minor adjustments.

Thank you,
Kris

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