

From: Chris Jackson <chris@cj-engineering.com>

Sent: Wednesday, May 08, 2019 10:48 AM

To: 'Alf McConnell' <alfmccconnell@gmail.com>; Czuta, Jarmen <Jarmen.Czuta@racinecounty.com>

Cc: 'Rob Bottensek' <robbsek@gmail.com>; ABunkelman@caledonia-wi.gov; 'Tom Lazcano' <tlazcano@caledonia-wi.gov>

Subject: RE: Parkview expansion - Storm water drainage

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Jarmen,

Alf requested the provide a follow up written explanation of the storm water drainage for the Parkview expansion The follow is a summary of the existing and proposed drainage and storm water management for the Parkview expansion.

The existing Parkview expansion land drains from the west to the east to the Klema Ditch. The Parkview expansion land is lower than the existing residences to the north on 4-1/2 Mile Road. As a result, the rear yards of these residences drain onto the through the Parkview expansion land. While there is 18-15 feet of drop from the east end to the west end of the site, there are some small variations in the existing topography that slow up the drainage. This is how the two small wetland areas developed. Some of this drainage towards the Klema ditch have been added by the old existing drain tiles. However since the site is no longer farmed these drains might not be functions as well over time.

The proposed development will be engineered for the grading, drainage and storm water management so that the proposed site will have improved drainage as compare the existing conditions. The combination of new storm sewer and drainage ditches will improved the storm water runoff from the site and from the adjacent contributing drainage area from the residences to the north. Proposed storm water ponds will be construction on the east end of the development that will provide both runoff quantity control and water quality control prior to limiting the discharge of the peak runoff into the Klema ditch. All the grading, drainage, storm water management will be done to meet the requirements of the Village and the WI DNR. All the plans, calculations and storm water reports will be prepared, submitted and approved by the Village and State prior to any site development of the property.

Please email or call with any questions or concerns.

Thanks,

Christopher A. Jackson, PE, PLS
President

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