MEMORANDUM



To: Trustee Colleen Konicek, Planning Liason Robert Kosin, Village Administrator

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From: Daniel J. Strahan, P.E., CFM

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Date: November 14, 2014

Re: Reserve at Barrington- Preliminary Stormwater Report

Recently our office received a copy of the preliminary engineering plans for The Reserve at Barrington, a 43-unit residential subdivision located along South Grove Avenue in the Village of Barrington, to the northeast of the Marquardt of Barrington and Motorwerks properties. Runoff from this and other developments east of Barrington Road drain west into the Cornell Basin in Barrington Hills and is subject to an intergovernmental agreement between the Village of Barrington and the Village of Barrington Hills and associated stormwater management plan developed in 1986. The preliminary engineering plan is scheduled to be presented for approval to the Village of Barrington Board of Trustees on November 24th, 2014. The attached exhibit illustrates the location of this parcel within the study area.

As shown on the attached plan sheets, drainage from the residential lots is planned to be collected into storm sewers and directed into one of three detention ponds. The detention ponds are intended to store runoff and release it at a controlled rate into an existing wetland at the south end of the property. The allowable release rate for the site is based on the Lake County Watershed Development Ordinance (WDO) requirement of 0.15 cfs/acre, which is more stringent than the 0.25 cfs/acre indicated in the Southgate Stormwater Management Plan for this drainage area. Based on Lake County WDO criteria a total of 2.64 acre-feet of detention volume storage would be required for the proposed development, while 2.75 acre-feet is proposed, indicative of a small surplus. Additional Lake County WDO requirements such as Runoff Volume Reduction and water quality treatment would further mitigate impacts from the development and are typically developed during the final engineering process.

Based on our review, the stormwater design criteria indicated in the preliminary engineering plans meets the minimum requirements of the Southgate Stormwater Management Plan as well as the more stringent requirements of the Lake County WDO.

cc: Board of Trustees









