

March 20, 2009

To: Melissa Milton-Pung

From: Dennis M. Wojcik, P.E.

Re: Freedom Township Draft Master Plan

The subject plan has been reviewed and the following comments are offered on behalf of the Washtenaw County Water Resources Commissioner's Office.

1. The Township is commended for the multiple references within the plan that will protect and foster the environment and natural features of the Township.
2. The language on page 22 item C is inconsistent. It is thought that the first sentence should read: "Streams, water bodies, and wetlands should **not** be used as part of the storm drainage systems of the Township." If these natural resources are to be protected they should only be used as ultimate outlets from a development's drainage system after quality and quantity best management practices have been incorporated.
3. The language on page 35 incorrectly indicates that items A through M are drainage facilities. Specifically items A, L and M do not refer to drainage facilities.
4. Page 35 item E indicates that all developments should establish drainage districts. It is thought that this is not appropriate in all cases. It is recommended that the following language be added after the words drainage facilities: "unless such establishment is not recommended as determined jointly by the Water Resources Commissioner and Freedom Township".
5. For clarification it is recommended that on Page 35 item H the language be revised from "Open courses" to "Open water courses". It is also recommended the landscaping discussed in this item be identified as native plantings.
6. Page 35 item J indicates that storm water runoff from developments shall not exceed undeveloped volumes and velocities. It is noted that this standard can be very difficult or impossible to accomplish. It is also noted that storm water runoff discharge rates are not discussed and it is recommended that this be added.

7. Page 35 item K indicates storm water retention should be utilized. Storm water retention is a specific type of storm water storage facility that does not have an outlet and is not appropriate in many instances. It is recommended that the term “retention” be revised to “storage facility”. This item also indentifies the 100 year storm of 12 hour duration as the design event. It is noted that this is inconsistent with the design event identified in the Rules of the Washtenaw County Water Resources Commissioner.

Please contact me with any questions you may have.