



PENNONI ASSOCIATES INC.  
CONSULTING ENGINEERS

August 19, 2014

ARLC 1201

Mr. Stephen Burgo, PE  
Tredyffrin Township  
1100 Duportail Road  
Berwyn, PA 19312-1079

**RE: Wayne Glen  
Conditional Use Submission  
Response to 08/12/14 Princeton Hydro Stormwater Review Letter**

Dear Mr. Burgo:

On behalf of Arcadia Tredyffrin LLC, Pennoni Associates Inc. submitted revised calculations and plan sheets on July 16, 2014. The revisions were part of ongoing discussions with Princeton Hydro and the Township as result of Princeton Hydro's review. The revised plans and calculations demonstrate compliance with Tredyffrin Townships Trout Creek Overlay Ordinance as it relates to Stormwater Management.

The following are our responses to Princeton Hydro's letter dated August 12, 2014:

## **Stormwater**

### **Groundwater Recharge and Volume Control**

As stated in the Princeton Hydro Letter, page 3 first paragraph, "There is little flexibility considering the spatial constraints posed by the necessary regional basin storage and the currently proposed residential unit density of 108 units."

**We acknowledge that the site has many constraints; however, the current site plan is in conformance with the Township Stormwater Ordinance and Trout Creek Overlay Ordinance.**

As stated in the Princeton Hydro Letter, page 3 second paragraph, "Further confirmation and infiltration testing should be conducted at the land development stage, in addition to infiltration testing during construction and post construction monitoring."

**We will provide the necessary infiltration testing during land development and construction as needed.**

### **Operation & Maintenance**

As stated in the Princeton Hydro Letter, page 3 last paragraph, "The revised basin configuration, especially on the eastern side of the residential area, appears to make

access to the basins and critical outlet control structures difficult. We recommend that the revised operation and maintenance manual include a plan showing the locations of each basin along with a dedicated access route which demonstrates full access to each of the basins.”

**We will provide a plan highlighting access paths to each basin facility. We will adjust access paths as needed during the land development process.**

As stated in the Princeton Hydro Letter, page 3 last paragraph, “Access routes for each basin should not be encumbered by adjacent residential units or landscaping and should have a minimum width of ten (10) feet with slopes less than or equal to 5:1”

**We will adjust access paths as needed during the land development process.**

As stated in the Princeton Hydro Letter, page 3 last paragraph, “The currently proposed berm width between basins 2B and 2A appears to be less than ten feet wide and is not consistent with the cross section detail shown on CS9504.”

**We will revise the plan and detail for consistency during the land development process.**

### **Regional Basin**

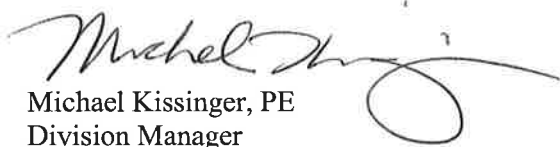
As stated in the Princeton Hydro Letter, page 3 third paragraph, “The revised plans appear to maintain access to the eastern side of the Regional Basin via an access road originating near the eastern side of the stream crossing off Road D. However, the engineer should demonstrate that adequate access to the sanitary sewer on the western side of the stream can still be accommodated.”

**Access on the western side of the stream will be provided along the existing sanitary sewer easement from Road D.**

Pennoni has continued to work with Princeton Hydro and the Township to provide clarity to the design as needed. We appreciate the willingness to work through these remaining items and look forward to additional discussion. Should you have any questions feel free to contact me at (610) 422-2457 or mkissinger@pennoni.com. Thank you for your continued attention to this project.

Very truly yours,

**PENNONI ASSOCIATES INC.**

  
Michael Kissinger, PE  
Division Manager

Cc: Arcadia Tredyffrin LLC