

Re: Stormwater letter - Sudbury

edwardchiang <h2oeng275@aol.com>

Wed 7/8/2020 9:48 PM

To: cgclaussen@gmail.com <cgclaussen@gmail.com>; vroy@sudburywater.com <vroy@sudburywater.com>;

Cc: whenchy@alumni.tufts.edu <whenchy@alumni.tufts.edu>; matt.leidner@cdgengineering.com <matt.leidner@cdgengineering.com>; Suedmeyer, Beth <SuedmeyerB@sudbury.ma.us>; Duchesneau, Adam <DuchesneauA@sudbury.ma.us>; Planning Board <PlanningBoard@sudbury.ma.us>;

Hi Chris and Vincent:

I read Mr. Leidner's responses about my comments of the Cold Brook Crossing project issues. It is not I want to criticize the report. May be I did not got the complete set of the report. I did not see any detail design or calculation for sizing the WQU. All responses are indicates the design has meet the DEP Standards, but no detail comparison of the design and DEP Standard.

The storm water system design did not indicate which pipe is flow full which pipe is open channel flow? There is no flow calculation of each pipe based on its slope. Computer program right or wrong need to be analyzed. The so call industry standard does not means it is perfect. I wrote several hydraulic programs in late 70th and early 80th for the company I was work with at that time to analyze water supply system and storm water system design, and also reviewed some programs before it became the today so call the industry standard programs, error does happen. When the user use it have to know how to make the adjustment. No program are perfect especially in the field of hydraulic field which involve open channel flow and close conduct flow.

This project does not involve big area, some error will not cause too big problem as far as hydraulic are concern, but in pipe flow the theory of $Q=AV$ in close pipe should hold, especial for pipe system design so to avoid under design.

Good luck.

Ed Chiang
h2oeng275@aol.com

-----Original Message-----

From: Chris Claussen <cgclaussen@gmail.com>

To: Vincent Roy <vroy@sudburywater.com>; edwardchiang <h2oeng275@aol.com>

Cc: Bill Henchy <whenchy@alumni.tufts.edu>; Matthew Leidner (matt.leidner@cdgengineering.com) <matt.leidner@cdgengineering.com>; Beth Suedmeyer <SuedmeyerB@sudbury.ma.us>; Duchesneau, Adam <DuchesneauA@sudbury.ma.us>; Sudbury Planning Board <planningboard@sudbury.ma.us>

Sent: Wed, Jun 24, 2020 10:41 am

Subject: Stormwater letter - Sudbury

Dear Mr. Roy and Dr. Chiang -

7/9/2020

Mail - DuchesneauA@sudbury.ma.us

The Town of Sudbury provided us with a copy of your letter regarding stormwater design for Cold Brook Crossing (Melone). I asked our civil engineer to review Dr. Chiang's letter and respond. Please see our response letter attached to this email.

I also wanted to let you know that Horsley Witten was retained by the Sudbury Planning Board to peer review our stormwater design, and MassDEP was consulted with respect to BMP's in a zone II. Both Horsley Witten and MassDEP's review have confirmed that our stormwater design meets MassDEP design standards and regulations for a zone II installation.

Please let me know if you have any questions.

Sincerely,

Chris Claussen
239.571.5500