

## MEMORANDUM

To: Barrington Planning Board

From: Pam Failing (Vice Chair), Barrington Conservation Commission

Re: Tropic Star (Gas Station) Revised Plan review/comments

Date: November 11, 2013

Last week we received a copy of the engineering review comments from DuBois & King for the Tropic Star project. We have a few concerns with respect to quality/quantity of water to be discharged from the site, which is over one of Barrington's aquifers. Our engineer seemed to have left no stone unturned, however a few questions still linger.

First, the proposed grade is three feet above the existing grade and grade of the adjacent parcels. It is not clear from the drainage plan that runoff (untreated) will be contained on the parcel.

Mr. Gier stated that the detention systems (and infiltration system?) are designed to take the runoff from a 50-year rainfall event (~7" of rain in 24 hours). However, will the catch basin covers be able to accept this flow fast enough to catch it; avoiding system bypass?

It is good to see some catch basins will have oil and water separator units in them. Curious if there is a consideration in the property O&M plan to clean out these units after a certain period of time; to avoid bypass of contaminants to detention system?

It is unclear in the drainage plan whether runoff from the truck filling station, in the back of lot, will flow away from the unprotected catch basin leading to the infiltration trenches. We would not want contaminated runoff getting into the infiltration system.

Appear snow storage locations will be in same areas as the plantings. This may make it tough to keep the green space green and functioning.

Since the proposed gas station is over an aquifer, are we able to be proactive and request groundwater monitoring wells be placed in the vicinity for early leak detection?

And lastly for consideration, appears there is a lot infrastructure shown in the side setbacks, including part of the truck filling station. All of this impact is allowed in our regulations?