DuBois & King inc.

ENGINEERING • PLANNING • DEVELOPMENT • MANAGEMENT

April 20, 2012

Ms. Constance Brawders
Town Planner
Town of Barrington
PO Box 660
333 Calef Highway
Barrington NH 03825

LAND USE OFFICE
APR 23 2012
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SUBJECT: Tropic Star Convenience – Map 238 – Lot 4
Engineering Review

Dear Ms. Brawders:

As requested, we are writing to clarify outstanding issues related to stormwater treatment for the above referenced project. As noted in our March 6, 2012 letter (comment #6), we expressed concern regarding the lack of treatment of stormwater for the drive-thru lane and rear parking area prior to entering the detention basin. We also understand that the Board has concerns with fuel spills at the diesel pump dispensers. Based on the above, we offer the following comments:

1. The diesel fuel dispensers are designed with a positive limiting barrier around the perimeter in accordance with NHDES Standards. These barriers are required to be constructed and maintained to contain five gallons for each dispenser. If a large spill were to occur, the fuel would flow to the swale along the easterly property line and then to a deep sump catch basin with an oil/grease trap. The swale is designed with an "impermeable" liner to theoretically prevent any infiltration prior to entering the catch basin. However, there were no specifications provided for the liner and we have concerns about the long term viability of this system. A system of curbing with catch basin/oil water separators would be easier to maintain and monitor. We would recommend that the applicant verify the oil/fuel capacity of the oil/water separators to assure that the Board is satisfied with the capacity to handle a specific volume fuel spill.

2. With regards to the treatment of stormwater at the rear of the site, the current design has sheet flow from this area directly to the detention basins. As with above, we would recommend that curbing be installed with stormwater directed to catch basins with oil/grease traps prior to discharge to the detention basin. This will collect any sand or oil/fuel spills prior to entering the detention basin.

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We hope that the above information clarifies any outstanding issues regarding stormwater treatment. If you should have any questions or comments, please call me.

Very truly yours,

DuBOIS & KING, INC.

Jeffrey A. Adler. P.E.
Senior Project Manager

JAA/js