DuBois & King inc.

ENGINEERING • PLANNING • DEVELOPMENT • MANAGEMENT

February 22, 2013

Ms. Marcia Gasses
Town Planner & Land Use Administrator
Town of Barrington
PO Box 660
Barrington NH 03825

SUBJECT: Trinity Conservation LLC
Green Hill Road Improvements

Dear Ms. Gasses:

We are writing regarding the TF Moran letter dated January 4, 2013 with a construction cost estimate for improvements to Green Hill Road. Based on our review of the cost estimate, only 5,300 LF of roadway was to be upgraded and of that only 1,250 lf was to be reconstructed. The total length of Green Hill Road from Route 125 to Route 202 is approximately 13,350 LF. It is our understanding that the proposed truck traffic will be directed in both directions from the pit and that although 60 trips per day are estimated, no firm commitment of maximum truck trips has been given. Therefore, we offer the following comments related to the existing Green Hill Road conditions.

1. Based on our visual inspection of the roadways and discussions with the Road Agent, 4,200 LF of Green Hill Road is exhibiting signs of frost susceptibility and/or road base failure which would likely not support the loads of additional truck traffic.

2. The remaining 9,150 LF of Green Hill road exhibits cracking likely related to excess water in the base material. Again, this pavement if simply overlaid would likely not support the loads of additional truck traffic.

Based on the above, we would recommend the proposed improvements to Green Hill Road to support the additional loads of the truck traffic.

1. Complete depth reconstruction of 4,200 LF to include 4" bituminous pavement (current Town standard), 6" crushed gravel, 12" backrun gravel, geotextile fabric and/or removal of clay/inorganics, underdrain and drainage swales. The cost per LF is $150 for a subtotal of $630,000.

2. Reclamation of 9,150 LF to include reclaiming, 4" bituminous pavement, underdrain, and drainage swales. The cost per LF is $70 for a subtotal of $640,500.

3. The total reconstruction cost would be $1,270,500.

The Town anticipated within the next five (5) years that Green Hill Road would be shimmed and overlaid with 1 ½" of pavement to support the current vehicular traffic. It has been our experience that the Town cost necessary to perform this work ($350,000) would be applied to the overall cost of roadway improvements to support the proposed development. In this case, the developer share of the improvements would be $920,500.

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