

July 3, 2014

Mike Gowing, Chair
Board of Selectman
Town of Acton
472 Main Street
Acton, MA 01720

RE: Nitsch Project #10079
Continuation of Use
37 Knox Trail
Acton, MA

Dear Mr. Gowing:

On behalf of Concord Public Schools, Nitsch Engineering is pleased to submit an Application for Continuation of Use at 37 Knox Trail in Acton, Massachusetts. Nitsch Engineering is also providing the following:

1. Site Plan Application;
2. Permit History (37 Knox Trail);
3. Acton GIS Map for 37 Knox Trail;
4. HydroCAD Output with summary of calculations;
5. USGS Well Data, Acton, MA;
6. Earth Removal Sketch;
7. Plan Set including the following:
 - a. Cover Sheet - C0.0;
 - b. Site Plan - C1.0;
 - c. Bus Parking and Turning Movements - C2.0;
 - d. Details - C3.0
 - e. Topographic Plan of Land

The project site is currently in the Technology District (TD) and a Zone 3 Groundwater Protection District (GWPD). The site does not abut a Residential Zone and is not within a wetland resource buffer zone. The south west portion of the site is within the Riverfront Area but no new work is proposed within the Riverfront. The site is not within an Area of Critical Environmental Concern (ACEC) or Natural Heritage & Endangered Species Program (NHESP).

The project does not require a Special Permit under Section 4.3.8 (GWPD) or Section 10.4.1.2(3) Site Plan Special Permit of the current Zoning By-Law (June 2013) because the increase in impervious area is below the 1,200 square foot threshold and the use for the site is not changing. A water balance calculation is provided on Sheet C1.0.

The proposed project involves installing approximately 610 square feet of additional new pavement to expand the existing site driveway at 37 Knox Trail. This will allow access to the existing parking lot for approximately five (5) busses and five (5) bus driver's cars from the Concord School District to temporarily park in the existing parking lot. The new impervious area along with a new easement over the driveway will provide access to land in Concord, adjacent to the site, for a potential future bus depot for all of the Concord Public School busses on the Town of Concord land.

As part of the improvements, the Applicant proposes to install a bio-retention system (rain garden) adjacent to the driveway to mitigate the increase in stormwater flows based on the new impervious area. The rain garden is designed to capture and infiltrate the one (1) inch storm event and by-pass storm events greater than the

10-year storm. A HydroCAD output of the bio-retention system is provided with this letter. The soil maps indicate a well-drained Merrimac soil with a Hydraulic Soil Group (HSG) of A. The soil survey indicates that groundwater is generally greater than 80 inches below grade.

The latest United States Geological Survey (USGS) groundwater well data in Acton for well ACW-158 indicates a current groundwater elevation of 18.2 feet below grade. Historical data for the past year indicates that the groundwater elevation fluctuates between 14.04 feet and 21.86 feet below grade. The Acton well is approximately 4 miles from Knox Trail. The Acton well and 37 Knox Trail are at approximately the same elevation. USGS well information is attached with this letter.

There are no other improvements proposed for the site at this time.

Nitsch Engineering is providing, under separate cover, a quantitative traffic assessment associated with the potential Bus Depot off 37 Knox Trail.

Nitsch Engineering respectfully requests that the 37 Knox Trail project be placed on the next Board of Selectman's hearing agenda for July to discuss this project.

Please let me know if you have any questions.

Very truly yours,

Nitsch Engineering, Inc.



Steven Ventresca, PE LEED® AP BD+C
Project Manager

SV/

Enclosures: Site Plan Application
Permit History (37 Knox Trail)
Acton GIS Map
HydroCAD Output
USGS Well Data, Acton, MA

cc: File, Concord Public Schools