



THE STATE OF NEW HAMPSHIRE  
DEPARTMENT OF TRANSPORTATION



Victoria F. Sheehan  
Commissioner

September 29, 2017

William Cass, P.E.  
Assistant Commissioner

Katie Ambrose  
Town Administrator  
Town of Sanbornton  
PO Box 124  
Sanbornton, NH 03269

RE: SANBORNTON, #29744  
Lower Bay Road  
State Aid Highway Program  
**ENGINEERING STUDY APPROVAL**

Dear Katie:

The NH Department of Transportation (NHDOT) has reviewed the Engineering Study and 30% plan submission prepared by Holden Transportation Engineering (HTE) received September 11, 2017, and has the following comments:

- 1) The Engineering Study is comprehensive and well written.
- 2) The design of the select materials on the typical sections and cross sections show a box cut with no daylighting. The geotechnical report shows till under the existing fill. If the existing fill does not drain well today, we recommend daylighting the box material to the ditch line on the west side or to the slope on the east side. The current design may result in the new gravels holding water during certain times of the year.
- 3) The preliminary pavement treatment meets the requirements for this roadway. In most instances when 4½-inches of pavement are placed, it consists of 3-inches of binder and 1½-inches of wearing course, however, 2½ - 2 is acceptable. The asphalt binder grade recommended for this project is Pages 58-28. Item 403.6 Pavement Joint Adhesive should be included for all pavement joints. Item 403.4 Material Transfer Vehicle (MTV) should be specified for the wearing course pavement. The total 20-year ESAL for the Superpave Mix Design on this project is assumed to be under 5,000,000. An ADL was not provided, therefore, a pavement design analyses is recommended to be completed by HTE.
- 4) Please update NHDOT on the status of discussions with impacted abutters as the project progresses.

The Engineering Study is considered satisfactory. However, prior to proceeding to the next phase, Preliminary Design, the NHDOT will need to review and approve the Scope of Services and Fee Proposal for Preliminary Design, Final Design and Bid Phase Services. Please submit a draft scope and fee for NHDOT review and approval as soon as available.

Also, please remember that the NHDOT cannot reimburse our 80% share of engineering costs until Final Design approval. Please document and track the project expenses incurred to make reimbursement more efficient in the future.

I look forward to helping the Town complete the design of this project. Please contact me with any questions.

Sincerely,



C. R. Willeke, PE  
Project Manager  
Bureau of Planning and Community Assistance  
Tel. (603) 271-6472

CRW/dmp

cc: Alan Hanscom – District #3  
Bill Rossignol – Holden Transportation Engineering