


May 22, 2024

**MEMORANDUM**

To: Suzanne Simone, Environmental Planner  
Conservation Commission

From: Daniel A. Pennington, P.E., Town Engineer / Manager of Physical Services 

Re: 769 Hebron Avenue  
Stream Bank Stabilization for Salmon Brook

The Engineering Division has reviewed plans for proposed stream bank stabilization for a portion of Salmon Brook located at 769 Hebron Avenue prepared by Megson Heagle and Friend Civil Engineers and Land Surveyors LLC last revised May 15, 2024 and offers the following comments:

1. The cross section for the proposed stabilization should be clarified including the proposed depth of riprap, depth of bedding & material specification, and the depth of the riprap being keyed in below the bottom of the brook.
2. Geotextile fabric should be included to prevent loss of fine soil particles from underneath the riprap and the fabric type should be specified on the plans.
3. Consider enlarging the two cross sections and plotting them without vertical exaggeration for ease of interpretation.
4. The typical base flow water elevation of the brook should be shown on the cross sections so that the extent of water handling and necessary height of cofferdams is better understood.
5. A flood zone certification statement should be provided from the design engineer confirming no loss of flood storage or adverse impact on Salmon Brook based on restoration of recently eroded area and comparison to prior topography.