

TOWN OF HINGHAM

Randy Sylvester
DPW Superintendent



J R Frey, P.E.
Town Engineer

To: Planning Board, Kevin Ellis, Chair

cc: Emily Wentworth, Community Planning Director
Michael Silveira, Senior Planner

From: J R Frey, P.E. *JRF*

Date: May 12, 2023

Subject: Bishops Lane Subdivision Application

Engineering has prepared this memo in response to the Bishops Lane Subdivision Application.

Having reviewed the application materials, as well as the third-party reviews, Engineering is opposed to approval of this subdivision as designed. There are a significant number of design elements which are non-compliant with Planning Board Rules and Regulations and would compromise safety to the general public. Certain additional elements relating to the utilities design are non-compliant with Planning Board Rules and Regulations, would require undue expense and difficulty for long-term operations and maintenance, or otherwise require additional design justification.

Engineering specifically raises an objection to the following design decisions:

1. The road slope exceeds the maximum allowable slope (8% max.; 10% design);
2. The roadway fails to provide a leveling area having not more than 3% slope for at least 100' from the nearest ROW line of an intersecting street;
3. The gravity portion of the sewer main may be designed too steeply. The engineer should confirm design velocities in pipe, and provide justification for velocities in excess of 10fps.
4. The drainage design proposes insufficient CBs (see Section 4.C.3.a);
5. The drainage design proposes infrastructure constructed >10' below grade;
 - a. The complexity and expense of operating and maintaining deep stormwater infrastructure is outside the capability of most homeowner or landowner associations. A failure of this infrastructure would make the roadway impassable.

Engineering has not provided comment on the several additional waivers requested by the applicant.