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June 8, 2022

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**Subject: Pigeon Hill Drive Booster Pump Station Replacement
Site Plan and Special Permit Review**

Dear Chris and Planning Board Members:

We received the following documents in our office May 23, 2022:

- Memorandum from Tighe & Bond to Grafton Planning Board dated May 23, 2022 Re: Response to comments, Pigeon Hill Drive Booster Pump Station Replacement, Grafton, Massachusetts.
- Plans entitled Town of Grafton, Pigeon Hill Drive Booster Pump Station Replacement, Permit Drawings dated April 27, 2022 and revised May 23, 2022, prepared by Tighe & Bond for Grafton Water District. (9 sheets)

Graves Engineering, Inc. (GEI) has been requested to review and comment on the plans' and supporting documents' conformance with applicable "Grafton Zoning By-Law" amended through June 20, 2020; Massachusetts Department of Environmental Protection (MassDEP) Stormwater Handbook and standard engineering practices. As part of our initial review, GEI performed a reconnaissance site visit on May 11, 2022.

This letter is a follow-up to our previous review letters dated May 20, 2022. For clarity, comments from our previous letter are *italicized* and our comments to the design engineer's responses are depicted in **bold**.

Our comments follow:

Zoning By-Law

1. *There are several instances where the scale bar shown on the sheets does not coordinate with the plotted scale. For example, on Sheet C-101 the bar scale shown is at a scale of 1"=40' however, the plotted scale mimics the scale in the title block of 1"=20'. The bar scales shown should be coordinated with the plotted scale. (§1.3.3.3.d)*

Acknowledged. The plans were revised to show bar scales consistent with the plotted scales.

2. *The phone number and address for Tighe & Bond needs to be provided on the plans in some capacity. (§1.3.3.3.d.1 & §1.3.3.3.d.9)*

Acknowledged. The cover sheet was revised to include the phone number and address for Tighe & Bond.

3. *On Sheet C-102, the values for the proposed (yard) setbacks are not consistent with those we scaled on the plans. For example, the side yard setback is listed as 63 feet however we scaled the most restrictive side yard setback as being 40 feet. The proposed setback values should be rechecked and revised as necessary. (§1.3.3.3.d.13 & §1.5.5.f)*

Acknowledged. The proposed side yard setback listed in the Zoning Data table on Sheet C-102 was revised to 40 feet. GEI has no issues relative to the yard setbacks proposed.

Hydrology & Stormwater Management Review

4. *GEI understands that the engineer has requested a waiver from §1.3.3.3.e regarding a Stormwater Management Hydrological Study. Due to the limited alteration, the inclusion of a pre-treatment and infiltration best management practices (BMPs) and the reasoning stated by the engineer (not meeting the thresholds for a Stormwater Management Permit) in Appendix D of the Special Permit & Site Plan Approval Application, GEI has no technical issues with this request, nor with the stormwater management system shown on the plans.*

No further comment necessary.

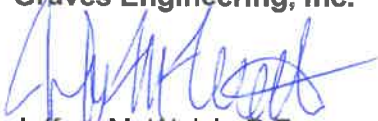
General Engineering Comments

5. *On Sheet G-002 under the Erosion Control and Resource Area Protection Notes, Note 1 depicts an inspection to take place during major storm events. The engineer should specify what rainfall amount constitutes a "major storm event" to ensure proper inspections.*

Acknowledged. Note 1 was revised to specify that inspections will take place after each rainstorm and during storm events greater than or equal to one inch of total precipitation.

We trust this letter addresses your review requirements. Feel free to contact this office if you have any questions or comments.

Very truly yours,
Graves Engineering, Inc.



Jeffrey M. Walsh, P.E.
Principal

cc: Danielle Teixeira, PE; Tighe & Bond
Matt Pearson; Grafton Water District