



Stantec

Stantec Consulting Services Inc.

65 Network Drive 2nd Floor, Burlington, MA 01803-2767

March 5, 2021
File: 179411004

Attention: Mr. Richard Gosselin, Chairman

MILLBURY PLANNING BOARD
Municipal Office Building
127 Elm Street
Millbury, Massachusetts 01527

**Reference: Millbury Fire Station
130 Elm Street
Millbury, Massachusetts**

Dear Mr. Gosselin:

Pursuant to the Board's request, Stantec Consulting Ltd. has reviewed the revised Millbury Fire Headquarters Site Plan submittal located at 130 Elm Street in Millbury.

The following materials were received by email on March 2, 2021 and hard copy on March 3, 2021.

- Site Plan (16 Sheets), revised January 25, 2021; Written response letter, dated March 1, 2021; Millbury Fire Station Planning Board Narrative, dated March 1, 2021; Drainage Analysis, revised March 1, 2021, and supporting documentation as prepared by Context Architecture (CA) and Garcia-Galuska-DeSousa Consulting Engineers, Inc. (GGD)

The Site Plan submittal was reviewed for conformance with the Town's Zoning Bylaws, the Board's Design Standards, and generally accepted engineering practice. We offer the following comments regarding the *Millbury Fire Headquarters Site Plan* submittal for the Board's consideration.

In general, the revised Site Plan submittal and supporting documentation adequately addresses Stantec's previous comments. We offer the following comments and recommendations on the remaining items in bold text which are cross-referenced to our February 18, 2020 letter report for the Board's consideration.

STORMWATER MANAGEMENT

The Millbury Fire Station Site Plan provides a layout of the proposed drainage system, including Best Management Practices (BMPs) such as deep catch basins, hydrodynamic water quality structures and subsurface detention basins. The Drainage Analysis included under a separate cover of the same name with the Site Plan submission. The applicant has provided information and calculations, including the stormwater checklist to show compliance with the Town of Millbury Stormwater Permit and ten performance standards as per the MassDEP Stormwater Management Handbook.

Stantec offers the following comments and recommendations regarding the Stormwater Permit Application for the Board's consideration:

Design with community in mind



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1. Estimated seasonal high groundwater elevation in area of the infiltration chamber system was not provided by LDC. We recommend additional test pits be performed within the footprint of the infiltration subsurface chamber system to verify estimated seasonal high groundwater elevation and soil texture.

Stantec (03/05/2021) We note test pits performed are not located within the footprint of subsurface detention basin nos. 1, 2 and subsurface infiltration basin No. 1. Stantec recommends additional test pits be performed within the footprint of these subsurface chamber systems to verify estimated seasonal high groundwater elevation, soil texture and refusal.

2. Provide calculations regarding the average annual load of Total Phosphorus and estimated pollution removal as per the Town's General Bylaw Municipal Code Chapter 13.15 Post-Construction Stormwater Management of New Developments and Redevelopments

Stantec (03/05/2021) As noted by GGD the estimated Total Phosphorus removal calculation will be provided upon its completion.

MassDEP Stormwater Standards

We offer the following comments on the proposed stormwater management system, specifically for compliance with the ten performance standards as outlined in the MassDEP Stormwater Management Standards.

1. No new stormwater conveyances (e.g., outfalls) may discharge untreated stormwater directly to or cause erosion in wetlands or waters of the Commonwealth.

As identified in the drainage analysis approximately 1.71 acres of the site runoff will be collected and discharged to the municipal drainage system located in Elm Street. We recommend additional documentation regarding the hydraulic capacity of existing catch basin no.1 and drainage system located on Elm Street be provided by GGD and recommend status of review by the Town Department of Public Works (DPW).

Stantec (03/05/2021) As noted by GGD, the closed pipe analysis for the 25-year storm event indicates the estimated flow from the site results in a peak discharge of 2.2 cfs to the existing catch basin no.1 located in Elm Street, which is less than the estimated hydraulic capacity of the existing 12-inch RCP outlet from catch basin no.1. We recommend status of review by the Town Department of Public Works (DPW) be addressed by GGD.



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If there are any questions regarding our comments and recommendations, please do not hesitate to call at 1-781-221-1134.

Regards,

STANTEC CONSULTING SERVICES INC.

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cc. Ms. Laurie Connors, Town Planner