



100 GROVE ST | WORCESTER, MA 01605

November 9, 2015

Maria Mast
Conservation Agent
Grafton Municipal Center
30 Providence Road
Grafton, MA 01519

T 508-856-0321
F 508-856-0357
gravesengineering.com

**Subject: Grafton Super Park, 4 & 6 Upton Street
Notice of Intent and Stormwater Management Review**

Dear Maria:

We received the following documents on October 14, 2015:

- Reduced-size plans entitled Grafton Superpark, Located on Upton Street, Grafton, MA dated September 16, 2015, prepared by Land Planning, Inc. for the Town of Grafton. (5 sheets)
- WPA Form 3 – Notice of Intent, 4 and 6 Upton Street, Grafton, MA dated September 17, 2015.
- Application for Permit, Grafton Wetlands Bylaw, 4 and 6 Upton Street, Grafton, MA dated September 16, 2015.

We also received the following documents on October 15, 2015:

- Full-size plans entitled Grafton Superpark, Located on Upton Street, Grafton, MA dated September 16, 2015, prepared by Land Planning, Inc. for Town of Grafton. (5 sheets)
- Bound document entitled Stormwater Report, Grafton Super Park, 4 & 6 Upton Street, Grafton, Massachusetts dated September 14, 2015, prepared by Land Planning, Inc. for Town of Grafton.
- WPA Form 3 – Notice of Intent, 4 and 6 Upton Street, Grafton, MA dated September 17, 2015.
- Application for Permit, Grafton Wetlands Bylaw, 4 and 6 Upton Street, Grafton, MA dated September 16, 2015.

Graves Engineering, Inc. (GEI) has been requested to review and comment on the plans' conformance with applicable Conservation Commission "Regulations Governing Stormwater Management" dated May 2013, "1988 Rules and Regulations for the Administration of the Town of Grafton Local Wetlands By-Law" amended July 2005; Massachusetts Department of Environmental Protection (MADEP) Stormwater Management Policy and standard engineering practices. GEI was authorized to proceed with this review on October 20, 2015.

Our comments follow:

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Grafton's Regulations Governing Stormwater Management

1. The hydrology computations submitted were not based upon "Cornell Data" precipitation amounts. The website <http://precip.eas.cornell.edu> can be used to obtain rainfall data for the Grafton area. The rainfall data must be for a 24-hour storm event. (§6.B.3.b)
2. A stabilized construction entrance was not proposed. A stone tracking pad should be provided where the proposed driveway meets the existing gravel parking lot. (§7.B.2.1)

Regulations for the Administration of the Wetlands By-Law

3. We have no issues relative to compliance with these regulations.

Hydrology & MADEP Stormwater Management

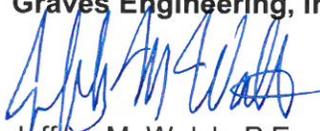
4. GEI reviewed the hydrology computations and found them to be in order except as noted in Comment 1.
5. GEI has no issues relative to compliance with the MADEP Stormwater Standards.

General Engineering

6. Slopes of 3H:1V are proposed along the west side of the driveway and along the east side of the sidewalk. Although not the subject of this stormwater review, we recommend that a shoulder (could be a narrow shoulder of one foot in width) should be provided at these locations to reduce the potential for the edges of the bituminous surfaces to break.
7. The plans should show the limits of the porous pavement's stone reservoir layer near Upton Street. The stone reservoir layer should not have a direct hydraulic connection to the Upton Street sidewalk or roadway base materials.
8. If the site is not fully stabilized when the porous pavement is constructed, then measures will be required to prevent soil from being tracked or deposited onto the pavement and "blinding" to voids in the pavement surface.

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.
Vice President

cc: Norman G. Hill, PE, PLS; Land Planning, Inc.