



ENGINEERING SUCCESS TOGETHER

MEMORANDUM

Date: March 11, 2013
To: Merrick Turner
From: Matt Crowley/Phil Paradis BETA Project #: 4410 - 033
Subject: University Station Stormwater
Management Update

The following is an updated list of Stormwater Management / Groundwater / Environmental Framework Issues taken from BETA's February 18, 2013 memo, updated to include comments for documents submitted via email on February 22, 2013.

1. Water balance calculations

- Document impacts to DWWD wells, water supply, and base groundwater flow to river.

Provide a stand-alone report similar to previously submitted Water Budget section of the Environment Impact Report and Appendix J Water Budget calculations (attached). See also comments letters from Weston & Sampson (W&S) to Dedham Westwood Water District (DWWD) March 5, 2013 and Neponset River Watershed Association (NRWA) March 5, 2013

2. Documentation on LID techniques assessed (included or excluded)

- Address NRWA goal that all impervious surfaces be routed to infiltration or other BMPs to increase groundwater recharge as well as address bacteria TMDL

See NRWA comments to included LID/BMPs to treat runoff currently not directed to infiltration areas for the bacteria TMDL.

See W&S comment on providing nitrogen loading calculation

3. Expand Operation and Maintenance Plan

- Spill Prevention and Control – See Westwood Station O & M Plan
- Recommend water tight drainage system in the portion of University Ave located within Zone 1.
- Regulate use of deicing and blasting chemicals to meet DWWD requirements

Provide blasting specification for review

- Landscaping practices
- *Include monitoring of sentinel wells and providing calculations requested by W&S.*

See additional comments on O&M Plan in separate email - to follow.

4. Adequacy of existing off-site infrastructure to accept design flows

- Impacts to 400 Blue Hill Drive – Coordination with MassDOT project(s)
- Impacts to MBTA outlet – Coordination with MBTA

5. Stormwater Calculations

- Update using latest rainfall data from Northeast Regional Climate Center (NRCC)
<http://precip.eas.cornell.edu/>
- Soil and groundwater data at infiltration systems
- Groundwater mounding for infiltration systems
- HydroCAD output for POA2 and POA4 including infiltration systems
- Bacteria removal rates at each Point of Analysis
See NRWA comments for calculations of areas not routed to infiltration BMPs or wetland basins

6. Conservation review

- Coordination for filing and review of Notice of Intent with Conservation
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