

Steve Senna

From: Johnson, Brad <Brad.Johnson@stantec.com>
Sent: Friday, June 14, 2019 3:30 PM
To: Kendra Dow; 'Michael Sprague'
Cc: Steve Senna; Holmes, Frank; Theo Kindermans; Bartas, Stephanie; 'Denise Cameron'; Johnson, Brad
Subject: Stormwater Management Permit Application - Waterstone at Lexington

Hi Kendra,

Thank you for reviewing the revised stormwater management permit documents for the Waterstone and Bridges projects; I know it was a rapid turnaround. I wanted to quickly respond to/clarify two residual items you noted for the Waterstone project. Mike, should the Town prefer formal memo, I'm happy to provide that as well.

Extended Dry Detention Basin

With the revised permit package, we had included a calculation from the MA Stormwater Handbook that indicates the maximum size orifice for the basin's outlet control structure in order to meet the minimum detention time of 24 hours. While this calculation resulted in a maximum orifice size of 1 inch set at the bottom of the basin, we are proposing that the elevation of the lowest orifice be 2 inches in diameter and be set above the bottom of the basin in order to meet Standard 2 for peak rate attenuation. We provided the calculation to adhere to the guidance provided by the Handbook, but in reality we're achieving extended detention by having the orifice set above the basin bottom. Additionally, the O&M plan for the site references the outlet control structure orifices specifically, as care will be taken to prevent the outlets from becoming clogged (which is imperative, as you've noted).

Grading at SW Corner of Basin

We will tighten up the grading at the SW corner of the basin so that the sedimentation controls can be shown downgradient of the disturbance. The "haybale" symbol that represents the sedimentation control barrier is shown on the plans at a slightly larger scale for graphic clarity so there are instances where the control barrier appears directly atop the proposed contours while in reality it will be placed outside the extents of any grading.

Have a nice weekend all.

Brad E. Johnson P.E.

Civil Engineer

Direct: 617 654-6033

Fax: 617 523-4333

Brad.Johnson@stantec.com

Stantec

226 Causeway Street 6th Floor

Boston MA 02114-2155



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