November 19, 2018

Ref: 12221.00

Winchester Conservation Commission  
C/O Elaine Vreeland  
Lower Level, Town Hall  
71 Mt. Vernon Street  
Winchester, MA 01890

Re: Request for Amendment to Order of Conditions (DEP #346-466) and Winchester Wetlands Bylaw No. WWB-466  
Project 6 - Skillings Field Culvert – Aberjona River Flood Mitigation Program

Dear Conservation Commission Members,

On behalf of the Applicant, the Town of Winchester, VHB is requesting an amended Order of Conditions (OOC) from the Conservation Commission (the Commission) for the above referenced Notice of Intent (NOI) filing. Construction of the Town of Winchester’s Flood Mitigation Project #6 is nearly complete. Final grades along the western edge of the field in the swale are not at design grades which is resulting in some ponding following rain events.

The original design includes a large swale along the western edge of the site that was designed to carry runoff from the fields and floodwaters from the Aberjona River during flood events. The design was later amended to include a synthetic turf field which still included a swale through the western edge of the synthetic turf field. The design intent was to maintain stormwater runoff and flood flows conveyance across both vegetated and synthetic turf fields through the swale.

Review of the interim as-builts for the swale, Figure 1 attached, show that the current grades in the swale upstream from the synthetic turf field are predominately below the original design grades. As the swale is currently graded, these areas result in ponding water which ultimately flows onto the synthetic turf field during intense rain events. In order to reduce the ponding water in the swale and reduce runoff onto the synthetic turf field, we are proposing to fill in the depressions with additional loam, regrade a small area downstream from the synthetic turf field, install three area drains, one trench drain, and a perforated 6” underdrain along the centerline of the vegetated swale to the north of the synthetic turf field. Figure 2, attached, provides the modified drainage swale improvement plan showing these additional upgrades.

The Applicant respectfully requests that the Commission find the proposed changes to the Project to be of a relatively minor nature, in accordance with DEP guidance and the By-law regulations, and find the Project to be adequately protective of the interests identified in the WPA and the By-Law.
If you have any questions concerning this submittal or need any additional information, please feel free to contact me at 617.607.2710.

Sincerely,

Ryan Lizewski, PE
Senior Water Resource Engineer
rlizewski@vhb.com

Jake San Antonio, PE
Managing Director
jsanantonio@vhb.com
NOTES:
1. ELEVATIONS SHOWN ON THIS PLAN ARE BASED ON AN ACTUAL ON-THE-GROUND INSTRUMENT SURVEY PERFORMED BY VHB, INC.
2. HORIZONTAL DATUM IS BASED ON MASS GRID SYSTEM, NAD 1983. ELEVATIONS ARE TIED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
NOTES:
1. FOR NEW DRAIN LINES TO BE CORED INTO EXISTING STRUCTURES, DESCRIPTION OF STRUCTURE SHALL BE COORDINATED WITH EXISTING SOIL CAP FABRIC TO ENSURE 100% COVERAGE WILL BE MAINTAINED. SEAM SHALL HAVE A STRENGTH OF 200 LB/IN AND CONSIST OF J OR BUTTERFLY SEAM WITH AT LEAST TWO ROWS OF DOUBLE THREAD LOCK STITCH OR APPROVED EQUAL.

2. PIPE CORED INTO EXISTING STRUCTURES SHALL BE TIE INTO EXISTING SOIL CAP FABRIC TO ENSURE 100% COVERAGE WILL BE MAINTAINED. SEAM SHALL HAVE A STRENGTH OF 200 LB/IN AND CONSIST OF J OR BUTTERFLY SEAM WITH AT LEAST TWO ROWS OF DOUBLE THREAD LOCK STITCH OR APPROVED EQUAL.

3. PIPE CORED INTO EXISTING STRUCTURES SHALL BE CORED INTO EXISTING CLEAN FILL MATERIAL AND CONSIST OF J OR BUTTERFLY SEAM WITH AT LEAST TWO ROWS OF DOUBLE THREAD LOCK STITCH OR APPROVED EQUAL.

4. PIPE CORED INTO EXISTING STRUCTURES SHALL BE CORED INTO EXISTING CLEAN FILL MATERIAL AND CONSIST OF J OR BUTTERFLY SEAM WITH AT LEAST TWO ROWS OF DOUBLE THREAD LOCK STITCH OR APPROVED EQUAL.

5. PIPE CORED INTO EXISTING STRUCTURES SHALL BE TIE INTO EXISTING SOIL CAP FABRIC TO ENSURE 100% COVERAGE WILL BE MAINTAINED. SEAM SHALL HAVE A STRENGTH OF 200 LB/IN AND CONSIST OF J OR BUTTERFLY SEAM WITH AT LEAST TWO ROWS OF DOUBLE THREAD LOCK STITCH OR APPROVED EQUAL.

6. PIPE CORED INTO EXISTING STRUCTURES SHALL BE CORED INTO EXISTING CLEAN FILL MATERIAL AND CONSIST OF J OR BUTTERFLY SEAM WITH AT LEAST TWO ROWS OF DOUBLE THREAD LOCK STITCH OR APPROVED EQUAL.