

## MEMORANDUM

September 29, 2021

**TO:** Frank Smeriglio, P.E., Assistant Director of Public Works/Town Engineer  
**FROM:** Craig J. Flaherty, P.E., Redniss & Mead  
**CC:** Michael Wrinn, Director of Planning & Land Use Management  
 Mike Conklin, Environmental Affairs  
 James D'Alton Murphy, Esq., Gregory and Adams  
**RE:** **WET #2724**  
 863-875 Danbury Road, CT Humane Society

This memorandum is in response to conditional comments received via your interoffice memorandum dated September 9, 2021 regarding the plans for 863-875 Danbury Road. Below are responses to each of the comments received.

*Review comments are indicated in black italics.*

*Response items are indicated in blue, standard type.*

*I – Based on a recent site walk, the existing 12" pipe and existing 15" pipe along with adjacent wetland area may act as a detention basin as it receives (on-site and offsite) stormwater from the west basin. Therefore, please adjust and resubmit the drainage report (existing and proposed conditions) to incorporate the condition. Also, verify that any water overtopping the headwalls will not erode the soil as it flows to the downstream channel (or potentially add appropriate armoring).*

We have reviewed the above information and made the suggested modifications to the drainage model (existing and proposed conditions) to include ponding conditions upstream of both existing pipes. Included hereto is Addendum #1 to the Site Engineering Report, which includes an updated drainage narrative, overall drainage basin exhibits, and hydrocad model. As might be expected, the total flow to the downstream watershed is lower than previously reported based upon ponded storage. Note, the revised model represents a net decrease in flow between existing and proposed conditions, therefore no changes were made to the proposed stormwater collection system.

For ease of review, below are two tables representing the originally submitted and revised rates of runoff within the west basin:

Original West Basin Rates of Runoff			
Event	Existing	Proposed	$\Delta$
2-Year	18.49	18.12	-0.37
10-Year	50.49	50.07	-0.42
25-Year	73.21	72.66	-0.55
100-Year	111.02	110.23	-0.79

Revised West Basin Rates of Runoff			
Event	Existing	Proposed	$\Delta$
2-Year	6.68	6.42	-0.26
10-Year	32.43	31.81	-0.62
25-Year	58.92	58.52	-0.40
100-Year	98.21	97.97	-0.30

*2 – The plans and drainage report shall be submitted to the State so that they have the opportunity to review drainage analysis and site plans as it relates to their storm drainage infrastructure and roadway on Route 7.*

Understood. We will submit the plans and drainage report as required for the State encroachment permit.

*3 – Prior to the issuance of a Certificate of Occupancy, the Design Engineer shall provide As-built drawing and certification letter indicating that the project was built in accordance with the design plans.*

Understood. An as-built survey and an engineering certification letter will be provided at project close-out.