

MEMORANDUM

To: Town of Shutesbury Conservation Commission

From: Berkshire Design Group

Date: September 28, 2023

Project: 59 Shore Drive Notice of Intent

Re: Responses to Comments from Conservation Commission provided on 8/2/2023 and DEP provided on 7/18/2023

To the Members of the Shutesbury Conservation Commission,

On behalf of Donna and Gary West, owners of 57-59 Shore Drive, Berkshire Design Group respectfully submits the following responses to the comments provided by the Shutesbury Conservation Commission on August 2, 2023, and DEP on July 18, 2023, regarding the Notice of Intent (DEP File #WE 286-0300) originally submitted on July 11, 2018.

Regarding the comments the Conservation Commission:

1. A proposed Title V septic system plan has been submitted in mid-August 2023, and is currently under review by the Board of Health. We are not aware of any concerns or issues.
2. The existing crushed culvert located within Shore Drive to the northeast of the 57 Shore Drive parcel is not functional and no drain line connection to the lake edge was observed. Surface run-off currently flows past the non-functioning culvert to an existing, functional culvert that crosses Shore Drive into the 57 Shore Drive parcel. Currently, run-off flows from the culvert to an open basin that directs run-off into a drain line that terminates at the lake edge. The existing culvert and drain line are proposed to be removed and replaced with a new culvert and drain line that daylight to a level spreader approximately 50' from the lake edge. Additionally, a small runnel with cobble stone and native plantings is proposed downslope of the level spreader to further disperse, slow, and filter surface run-off before reaching the lake edge.
3. As noted above, the surface run-off captured by the proposed, re-aligned culvert flows to a level spreader and runnel with native plantings to further slow and disperse the run-off. The proposed 12" culvert and 12" drain line are the same size as existing conditions.
4. Grading shown in the plan set has been updated and reflects accurate elevations of the property.
5. Erosion control barriers are proposed along the west and north sides of the property during the entire period of construction.
6. A simplified Chapter 91 permit for the existing dock has been submitted to DEP by the Owner and is attached for your reference.
7. A Simplified MESA Checklist has been submitted and is under review by NHESP.
8. The planting plan shown on Site Plan L-101 has been revised to enhance native plantings including herbaceous perennials, shrubs, and trees, along the waterfront edge to provide a buffer and greater Resource Area benefits. Additional native plantings are also placed downslope of the level spreader to provide erosion control benefits.

9. The proposed seed mix for the native planting buffer area is a Conservation/ Wildlife Seed Mix with native species found within Franklin County.

Regarding the comments provided by DEP on July 18, 2023, BDG submits the following responses.

1. A Simplified MESA Checklist has been submitted and is under review by NHESP.
2. The existing outlet on the bank is proposed to be removed. The proposed outlet is located approximately 50' away from the bank and daylighted to a level spreader and cobble stone runnel with native plantings.
3. The proposed plantings are native to Franklin County according to the Vascular Plant Checklist, 1st Revision.
4. According to Table 1 in the Flood Insurance Study published by FEMA for the Town of Shutesbury in December, 1979, the 100-year flood elevation for Lake Wyola is 835.7. This elevation is shown on the Site Plan L-101. The following table shows the compensatory storage calculations for the proposed work which results in a net benefit of 447.6 cubic feet of additional flood storage.

Elevation Band	Existing Flood Storage Volume (Cubic Feet)	Post-Development Flood Storage Volume (Cubic Feet)	Net Change in Flood Storage (Cubic Feet)
833 – 834	505.9	707.6	201.7
834 - 835	3,068.9	3313.6	244.7
835 - 835.7	4,760.4	4,759.2	1.2
	Net Flood Storage Increase		447.6

5. A simplified Chapter 91 permit for the existing dock has been submitted to DEP by the Owner and is attached for your reference.