

Operation and Maintenance Checklist
Barnstable Bioretention/Bioswale

Date:

Time:

Inspector:

Maintenance Item	Description	Maintenance (Y/N)
<p>1. Drainage Inlet: Includes: Inlet Flumes, catch basins, diversion structure Inspect annually and after major storm events (2" of rain or greater)</p>		
Surface Debris Cleaning	Remove all trash, leaf litter and inlet clogging.	
Inlet Flumes	Check for clogging and sediment accumulation that impacts inflow. If sediment/debris accumulation	
<p>Actions to be taken:</p>		
<p>2. Grass Swale (if applicable) Inspect annually and after major storm events (2" of rain or greater)</p>		
Debris Cleanout	Remove all trash and debris from the swale.	
Sediment/Organic Debris Removal	Removed and properly disposed of when build-up is greater than or equal to 3 inches.*	
Erosion	Check for areas of erosion/ gullies in the swale, particularly along the swale bottom. Repair/reseed as necessary	
<p>Actions to be taken:</p>		
<p>3. Sediment Forebay Inspect bi-annually and after major storm events the first year; then annually and after major storm events (2" of rain or greater)</p>		
Debris Cleanout	Remove trash and debris from the surface.	
Side Slopes	Signs of erosion gullies, animal burrowing, overtopping or slumping are observed. Repair as necessary.	
Sediment/Organic Debris Removal	Remove sediment accumulation and properly dispose when accumulation is greater than or equal to 3 inches or you cannot see stones.*	
<p>Actions to be taken:</p>		

Maintenance Item	Description	Maintenance (Y/N)
4. Bioretention Area		
Inspect bi-annually and after major storm events the first year; then annually and after major storm events (2" of rain or greater)		
Debris Cleanout	Remove trash and debris from the surface.	
Side Slopes	Signs of erosion gullies, animal burrowing, overtopping or slumping are observed. Repair as necessary.	
Sediment/Organic Debris Removal	Remove sediment accumulation and properly dispose when accumulation is greater than or equal to 3 inches or you cannot see stones.*	
Vegetation Maintenance Replacement	Area mowed twice per year minimum (12" grass height). Over seed bare or thin grass growth areas.	
Water Draining properly	If standing water is observed for more than 48 hours after a storm event, rototill or aerate the bottom 6 inches to breakup any hard-packed sediment, and replenished with mulch.*	
Actions to be taken:		
5. Overflow Structures/Spillways		
Includes: Bio outlet structures and emergency/overflow spillways		
Inspect annually and after major storm events (2" of rain or greater)		
Emergency Spillways	Check for settling gulling, erosion damage, settling & clogging. Repair as necessary and return to design grades.	
Spillway Overflow	Look for areas of erosion in the overflow swale between. Repair as necessary.	
Overflow Structure	Check for sediment accumulation that impacts inflow. If sediment accumulation. Schedule cleaning. Check for leaf litter, debris and inlet clogging.	
Actions to be taken:		
6. Routine Grounds Maintenance – Inspect annually		
Debris Removal	Remove trash from perimeter areas.	
Pavement Sweeping	Sweep parking lot minimum once a year after spring thaw.	
Drainage Network	Ensure proper operation.	
Contributing drainage area	Contributing drainage area stabilized	
Actions to be taken:		

*Sediment shall be disposed of offsite in a pre-approved location.

Osterville Library
 Bioswale
 not to scale

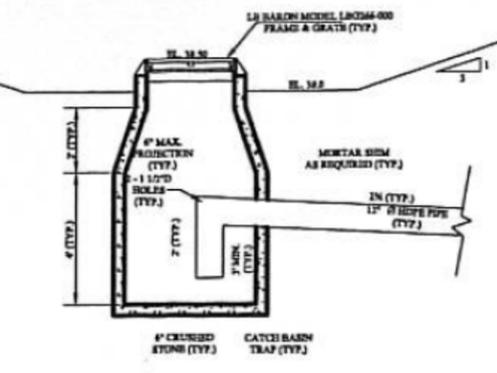
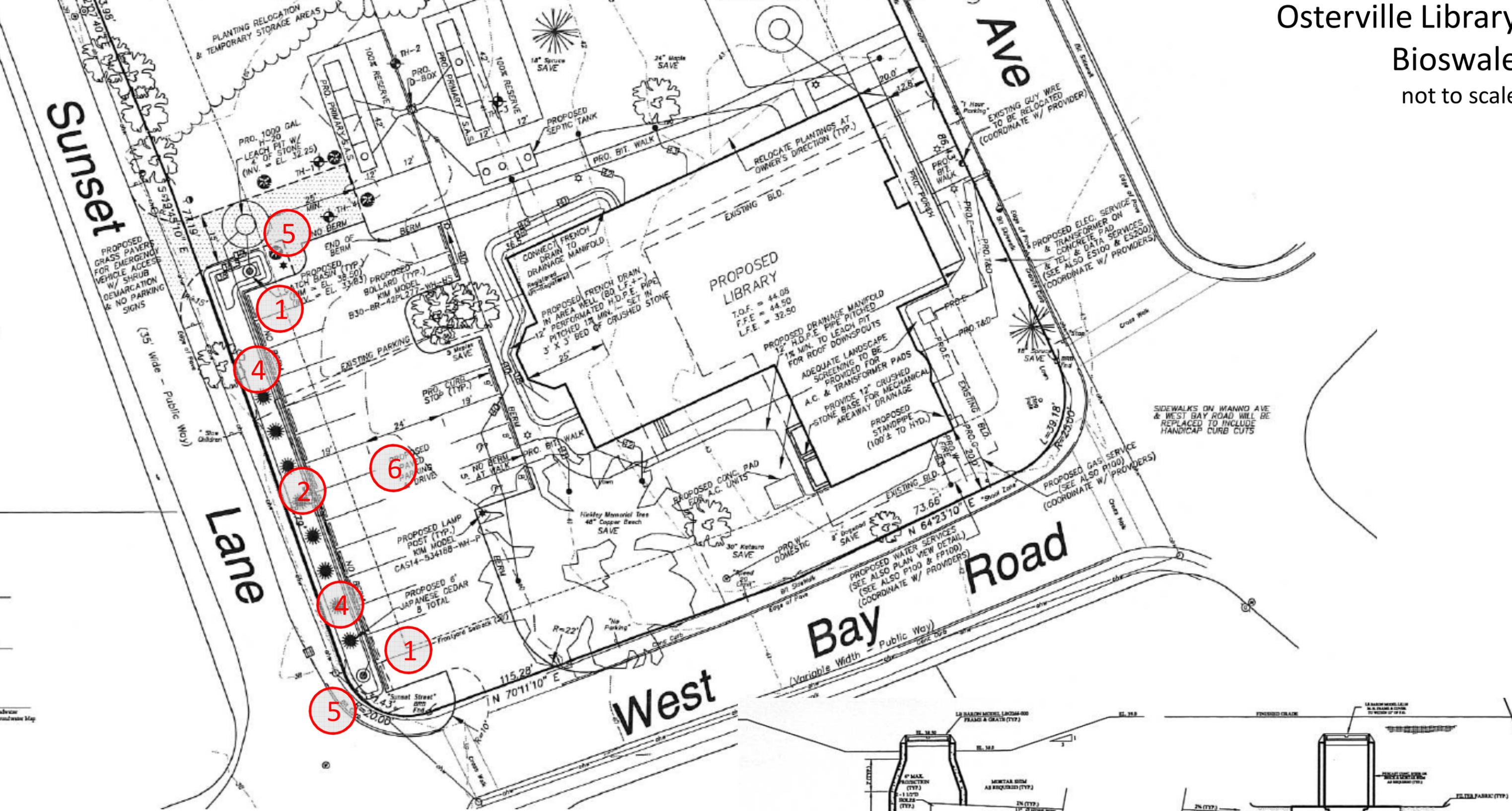
Sunset

Lane

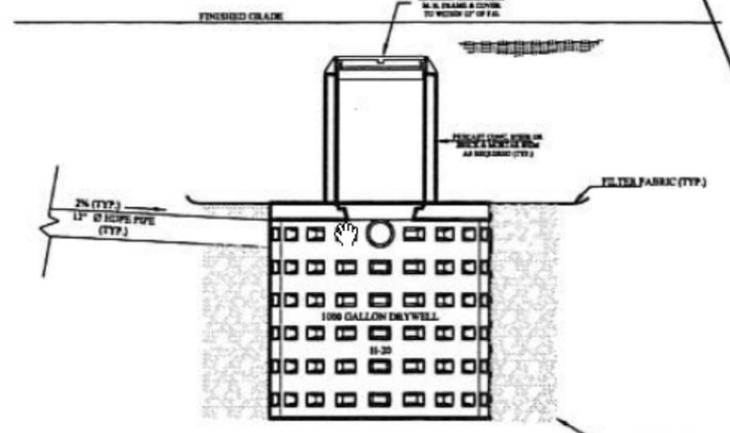
Bay Road

Ave

West



Bio Swale
 Developed Schematic
 Not to Scale



Leach Pit
 Developed Schematic
 Not to Scale