

LONG TERM OPERATION AND MAINTENANCE PLAN August 26, 2024

OLIVER SCHOOL AP 18, LOT 42 151 STATE STREET BRISTOL, RI

Prepared For:

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In order to minimize the stormwater management system deterioration, the owner shall adhere to the following Operation and Maintenance Plan as well as any additional requirements pertaining to inspection and maintenance measures for this site provided in Appendices E and G of the Rhode Island Stormwater Design and Installation Standards Manual.

Pavement Sweeping

Pavement sweeping shall be conducted on a quarterly basis. Some debris collected from parking lots may be regulated as a hazardous waste. For these cases, debris must be disposed of in accordance with appropriate practice and applicable regulatory standards. Appendix A of the *Rules and Regulations for Composting Facilities and Solid Waste Management Facilities*, which is entitled "Management of Street Sweepings in Rhode Island," shall be reviewed. For further information, contact the DEM Office of Waste Management.

De-icing and Salt Storage

De-icing and sanding operations are often necessary for safety during winter storms; however, the materials used create water quality problems. Use deicing chemicals and sand judiciously. The information in Table G-1 from Appendix G of the RISDISM shall be utilized when selecting a deicer.

Permeable Paving

A legally binding and enforceable maintenance agreement shall be executed between the facility owner and the responsible authority to ensure the following: Areas where infiltrating permeable pavement practices shall never serve as a sediment control device during site construction phase. Great care must be taken to prevent the permeable pavement area from compaction. Permeable paving surfaces require regular vacuum sweeping or hosing (minimum every three months or as recommended by manufacturer) to keep the surface from clogging. Maintenance frequency needs may be more or less depending on the traffic volume at the site. The use of sand and salt shall be minimized during the winter months. Permeable pavement areas shall not be repaved or resealed with impermeable materials. The permeable pavement area shall be inspected annually for deterioration or spalling.

Snow Disposal

Improper snow disposal can be a threat to public health and the environment. Disposal shall consider site selection, site preparation and maintenance, and emergency snow disposal locations and procedures. On this site, due to the limited area, all snow will be required to be removed and disposed of off-site in accordance with state and local regulations. Refer to DEM's Snow Disposal Policy for more details on these topics.

Rain Garden/Bioretention Basin

A legally binding and enforceable maintenance agreement shall be executed between the facility owner and the responsible authority to ensure the following: Silt/sediment shall be removed from the filter bed when the accumulation exceeds one inch. When the filtering capacity of the filter diminishes substantially (i.e., when water ponds on the surface of the filter bed for more than 48 hours), the top few inches of discolored material shall be removed and shall be replaced with fresh material. The removed sediments shall be disposed in an acceptable manner at an approved and permitted location.

General Maintenance Notes

For unique installations in extremely tight sites or redevelopment/infill projects where pretreatment strips have been downsized, enhanced maintenance shall be required through more frequent inspections, more frequent sediment removal, and enhanced landscape maintenance.

During the six months immediately after construction, filter practices shall be inspected following at least the first two precipitation events of at least 1.0 inch to ensure that the systems are functioning properly. Thereafter, inspections shall be conducted on an annual basis and after storm events of greater than or equal the 1- year, 24-hour Type III precipitation event.

APPENDIX:

- A. Checklists (Bioretention & Permeable Pavement)
- B. Maintenance Agreement
- C. BMP Location Plan