MILLENNIUM ENGINEERING, INC.

Land Surveyors and Civil Engineers

LONG-TERM POLLUTION PREVENTION AND OPERATION AND MAINTENANCE PLAN

FOR THE

NORTH NEIGHBORHOOD

AT

ROCKY HILL MBTA COMMUNITY
ELM STREET
AMESBURY, MA

PREPARED FOR:

DALE DEVELOPMENT, LLC
360 WASHINGTON STREET
RYE, NH

DATE: AUGUST 28, 2026

Massachusetts:

62 Elm Street-
Salisbury, MA 01952
Phone: 978-463-8980

New Hampshire:

13 Hampton Road
Exeter, NH 03833
Phone: 603-778-0528

This long-term Stormwater Management System Operations and Maintenance and Wildlife Tunnel (O&M) Plan, filed with the City of Amesbury, shall be implemented for the proposed development at the North Neighborhood Rocky Hill MBTA Community Elm Street to ensure that the stormwater management system functions as designed. The Owner holds the primary responsibility for overseeing and implementing the O&M Plan and assigning a Property Manager who will be responsible for the proper operation and maintenance of the stormwater structures. In case of transfer of property ownership, future property owners shall be notified of the presence of the stormwater management system and the requirements for proper implementation of the O&M Plan. Included in the manual is a Stormwater Management O&M Plan identifying the key components of the stormwater system and a log for tracking inspections and maintenance.

The stormwater management system protects and enhances the stormwater runoff water quality through the removal of sediment and pollutants, and source control significantly reduces the number of pollutants entering the system. Preventive maintenance of the system will include a comprehensive source reduction program of regular vacuuming and litter removal, and prohibitions on the use of pesticides.

The purpose of the Stormwater Operations and Maintenance (O&M) plan is to ensure inspection of the system, removal of accumulated sediments, oils, and debris, and implementation of corrective action and record keeping activities.

The ongoing responsibility is the Owner, its successors, and assigns. Adequate maintenance is defined in this document as good working condition.

The owner shall:
a. Maintain an Operation and Maintenance Log for the last three years. The Log shall include all BMP inspections, repairs, replacement activities and disposal activities (disposal material and disposal location shall be included in the Log);
b. Make the log available to the Amesbury Public Works (Engineering Division) and Planning Board upon request;
c. Allow members and agents of the Amesbury Public Works (Engineering Division) and Planning Board to enter the premises and ensure that the Owner has complied with the Operation and Maintenance Plan requirements for each BMP.

Contact information is provided below:

Responsibility for Operations and Maintenance
Dale Development. LLC

360 Washington Street
Rye, NH

Illicit Discharge Compliance Statement

I, _____, (**Signing on behalf of the owner Dale Development LLC**) verify that all illicit discharges to the stormwater management system are prohibited and no illicit discharges exist on the site.

POST-CONSTRUCTION STORMWATER BMPs

The below specific stormwater control devices and wildlife corridor culvert requires regular maintenance to ensure property operations, Refer to the attached key map for locations of the specific devices.

1. Deep Sump/Hooded Catch Basins

Deep sump/hooded catch basins are incorporated in the proposed development's stormwater management plan as pre-treatment for the proposed drainage system. The sump provides for settlement of suspended solids and a hood is provided to remove floatables and trapped hydrocarbons. It is not anticipated that the proposed roadway will become an area of high sediment loading. The sump should be inspected and cleaned at least once per year; the more frequent the cleaning, the less likely sediment will be resuspended and subsequently discharged. Catch basin sediments and debris shall be disposed of at an approved DEP landfill. The owner shall be responsible for the catch basin cleaning operations.

2. Stormwater Detention Basins

Stormwater Detention Basins are included in the stormwater management plan design for the proposed development. To ensure proper performance and system longevity, the following maintenance schedule is recommended:

a.) Sediment and debris removal: Basins should be inspected twice a year, during both growing and non-growing seasons, inspections and maintenance should include:
   - i.) Inspect vegetation confirming accomplishment of healthy plant growth. Seed bare ground areas as needed to maintain vegetation cover in the basin. Seeding shall be done in April/May or September.
   - ii.) Inspect for any scour at pond inlets and stone level speeder outlets. Replace or fortify any erosion areas with riprap of similar size to existing stone.
   - iii.) Accumulation of sediment within the basin. Any sediment and debris should be removed manually before the vegetation is adversely impacted;
   - iv.) Inspect outlet control devices, confirm orifices free of branches and any debris that could clog openings. Remove and dispose debris accumulated within the basin.
   - v.) Mow the basins twice a year, remove all clippings from the basin. Removal of clipping is important to keep from clogging the outlet orifices.
   - vi.) The outlet control structures shall be inspected monthly, particular note shall be paid to small orifices confirming are not clogged. Remove an leaves, sticks or other debris that may prevent flow.

3. Infiltration Chambers

Infiltration chambers are incorporated into the site design for infiltration. The chambers shall be inspected after every major storm event in the first 4 months after construction to ensure proper function. Inspection ports or manhole covers shall be utilized for access and assessment. After the four-month period, the chambers shall be inspected a minimum of twice per year. Any grit or sediment found within the chambers impacting infiltration shall be removed by manual or mechanical methods, such as a vacuum truck. The chambers should be dry within 3 days of any rainfall event, if ponding water is observed more the 3 days after a rainfall event, a registered professional civil engineer shall be contacted to conduct an assessment of the chamber system.

4. Level Spreaders and Rip-Rap Outfalls

The rip-rap outfalls shall be checked for debris accumulation during regular SWPPP inspections. Trash, leaves, branches, etc. shall be removed from outfall. Silt, sand and sediment, if significant accumulation occurs, shall be removed as required by means of mechanical excavation. Material removed shall be disposed of in accordance with all applicable local, state, and federal regulations. The outfall shall be kept free of woody vegetation and removal of woody vegetation shall be conducted between October 15th and April 15th. Any slope erosion within the outfall shall be stabilized and repaired immediately and additional rip-rap added as required.

5. Wildlife Corridor Culvert

Inspect each end of the culvert openings. From the culvert face to 5 feet away from face, maintain clear paths for small creatures to traverse, and remove any obstructions that would direct travel away from the culvert opening. Prevent the growth of large trees in this 5-foot zone. Ensure the interior of the culvert has a smooth bottom surface, replenish the fiber bark surface as needed. Remove the lightwell grate in the roadway median to access the center of culvert. Insure there are no trees growing in the area, remove any saplings lager than 1-inch caliper in the area. Small shrubs and grass are allowed but shall not impede the travel of any small animals. Replenish the fiber mulch surface as required. These inspections shall be done twice a year, once in the spring during the month of March (April if weather conditions prevent earlier inspection) and once the fall during the month of November.

Long-term Site Operation and Maintenance Plan

Good Housekeeping

The site shall be regularly inspected for any trash and debris. Any trash or debris shall be picked up and placed into the waste containers.

Storing of materials and waste products inside or under cover

It is not anticipated that there will be storing of materials or waste products on site. If any materials are to be stored, they shall be stored inside or under cover.

Spill Control/Notification Practices

In addition to the good housekeeping and material management practices discussed above, the following practices will be followed for spill control, notification, and cleanup.

- Manufacturer's recommended methods for spill cleanup will be clearly posted and project area personnel will be informed of the procedures and the location of the information and cleanup supplies.
- Materials and equipment necessary for spill cleanup will be kept in the material storage area on- site. Equipment and materials will include, but will not be limited to, shovels, wheelbarrows, brooms, dust pans, mops, rags, gloves, goggles, kitty litter or Speedi-Dry, sand, sawdust, and plastic and metal trash containers specifically designated for this purpose.
- All spills will be cleaned up immediately after discovery.
- The spill area will be kept well ventilated, and personnel will wear protective clothing to prevent injury from contact with a hazardous substance.
- Spills of toxic or hazardous material in excess of reportable quantities, as established in the Massachusetts Contingency Plan (MCP), will be reported to the Massachusetts Department of Environmental Protection Division of Hazardous Waste [(617) 292-5851 or (978) 661-7679].

Lawn Care

All lawn clippings, leaves, mulch, and any other landscaping items shall be kept out of storm drains. The use of pesticides and fertilizers on the lawn shall never be applied before a rain event. Only approved aquatic safe herbicides shall be allowed. The application of any fertilizers or pesticides shall be in accordance with the Manufacturer’s specifications.

Vehicle Washing

No harmful soaps or chemicals that are detrimental to the environment may be used in washing of cars or other items on the property.

Pet Waste Collection

Pet owners shall be responsible for picking up and disposing of all pet waste into waste containers.

Waste Collection

All trash and waste shall be placed in the dumpster on site. The cover to the dumpster shall remain closed at all times. Any trash or debris found on site shall be disposed on in the dumpster. Regular pickup of the dumpster shall occur to avoid the waste exceeding the dumpster capacity.

Snow and Snow Melt Management

Proper management of snow and snow melt, snow removal and storage, use of deicing compounds, and other practices can minimize major runoff and pollutant loading impacts. Snow will be stored in areas adjacent to the edge of the roadway. Use of alternative deicing compounds, such as calcium chloride and calcium magnesium acetate, will be investigated for use. Professional services will be used for snow management. Refer to the Snow Removal Management Plan for detailed information.

Street Sweeping:

The driveway and parking area shall be swept every spring season after the last snowfall. All sediment shall be removed and discarded off the property in accordance with all Local, State and Federal regulations.

Training

The individual who will be responsible for the inspection and maintenance of the stormwater system shall be trained by the previous person responsible or by contacting a local engineer for assistance.

MAINTENANCE DEVICE KEY

1. DEEP SUMP CATCH BASINS
2. STORMWATER DETENTION BASINS
3. INFILTRATION CHAMBERS
4. LEVEL SPREADERS & RIP-RAP OUTFALLS
5. WILDLIFE CORRIDOR CULVERT

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)

1 inch = 40'

STEPHEN B. SAWYER — COMMONWEALTH OF MASSACHUSETTS — No. 52025 — REGISTERED PROFESSIONAL ENGINEER

PREPARED FOR

DALE DEVELOPMENT, LLC
360 WASHINGTON STREET
RYE, NH 03870

NO.	DATE	DESCRIPTION	BY
5	8/17/26	PLAN SET UPDATE	S.B.S.
4	6/29/26	PLAN SET UPDATE	S.B.S.
3	6/19/26	NOI INTERIM UPDATE	S.B.S.
2	3/24/26	PEER REVIEW UPDATE	S.B.S.
1	12/22/25	PLANNING BOARD UPDATE	J.T.M.

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DATE: AUG. 11, 2025 | CALC. BY: J.T.M. | CHKD. BY: S.B.S. | PROJECT: M244407

ROCKY HILL MBTA COMMUNITY
IN
AMESBURY, MA
AT
ELM STREET

O & M KEY PLAN

SHEET: O&M-1