

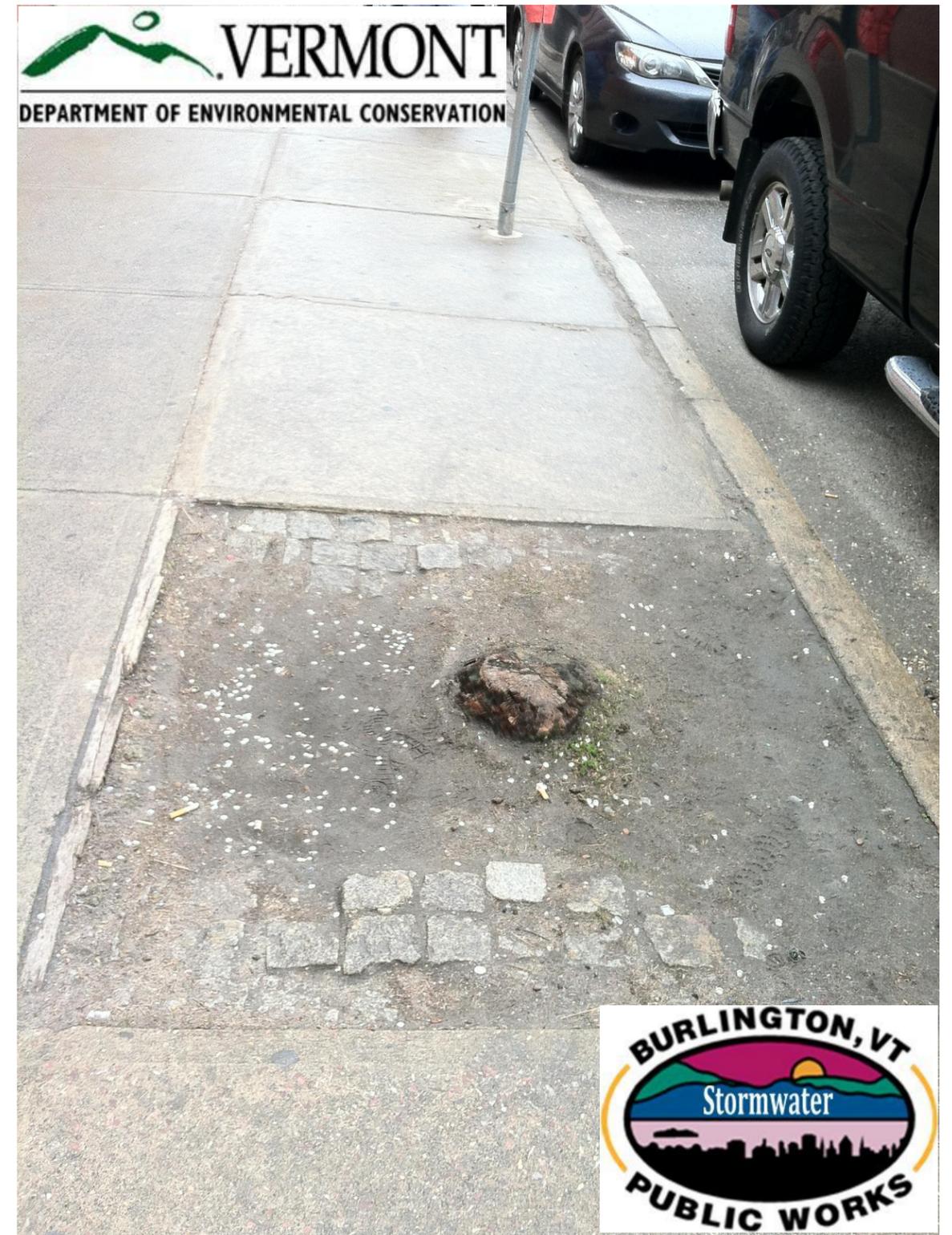
Burlington's First Silva Cell Tree/Stormwater System

Downtown environments are tough on street trees and stormwater.

The paved environment requires heavy compaction of soils to support the weight of the pavement and vehicles. The compacted soil affects tree growth and longevity, resulting in the many empty tree squares you see in downtown.

The pavement itself causes excess stormwater runoff, which means more pollutants enter Lake Champlain and degrade water quality.

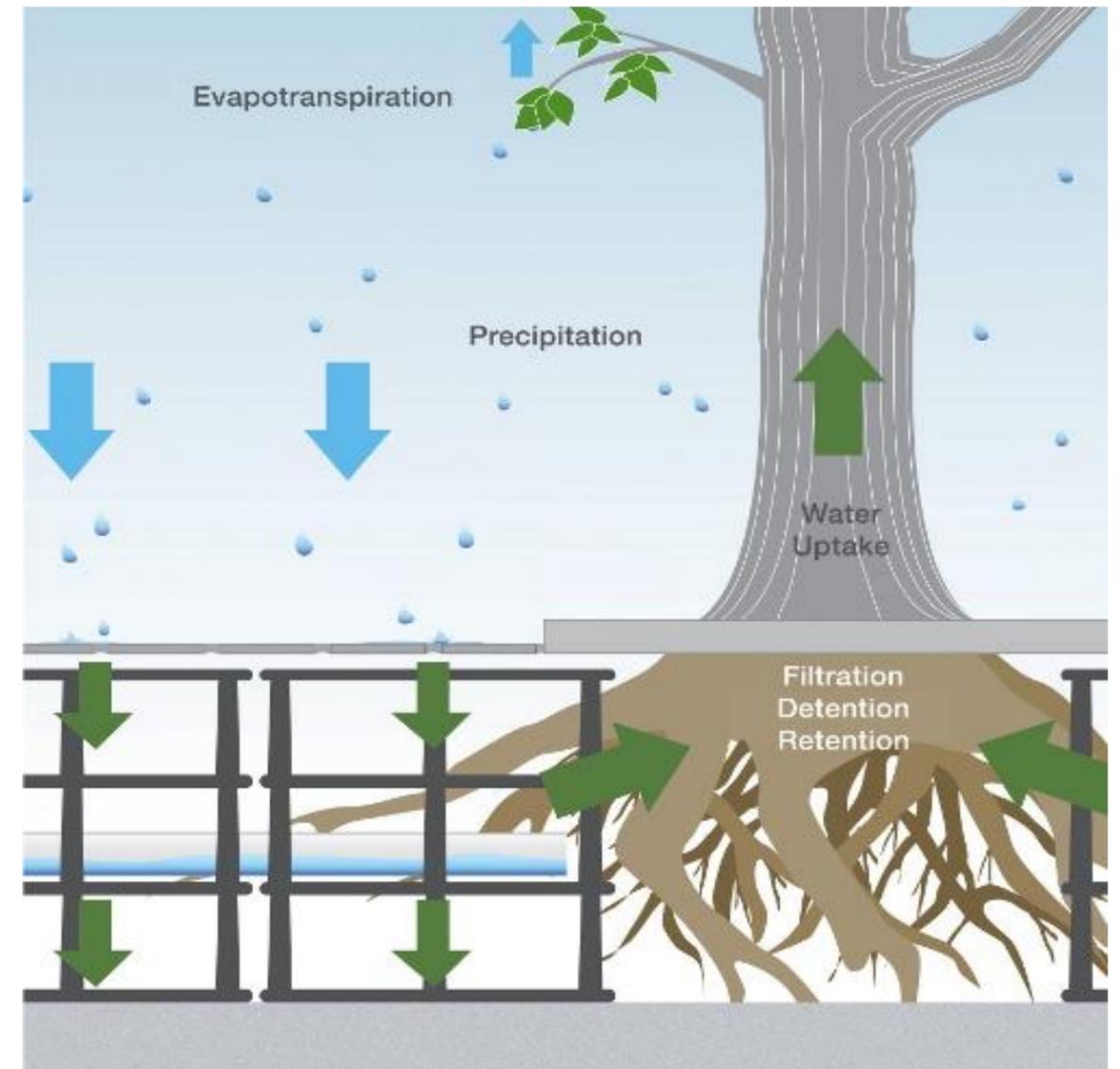
For more information, visit: www.burlingtonvt.gov/DPW/Stormwater/Stormwater-Projects



Silva Cell Tree/Stormwater System: How It Works

This Silva Cell installation helps both the tree health and stormwater pollution prevention issues!

- Engineered decking supports the pavement so soil can remain un-compacted and aerated to support healthy tree growth
- Improved tree health means additional stormwater capture by the canopy (leaves)
- The uncompacted soil media can also be used for retention of stormwater runoff from the roadway
- The larger, healthier tree also can uptake and recycle stormwater to the atmosphere



- Excess stormwater is filtered through the media and drains slowly to sewer system.

