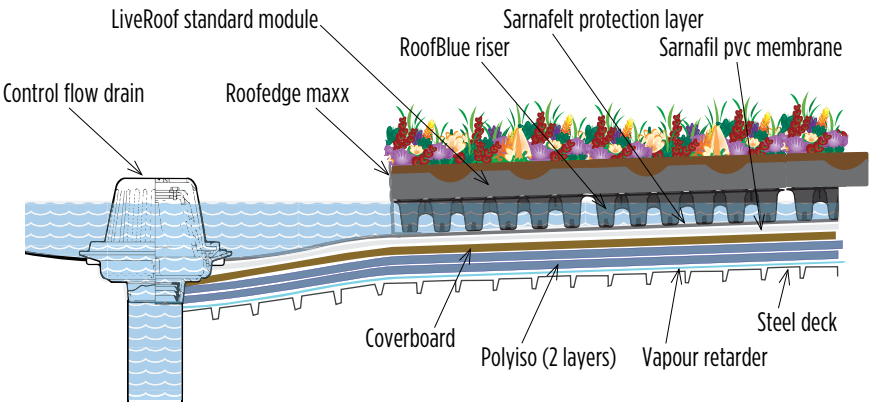
THE METROLINX KIPLING TRANSIT HUB

LiveRoof Ontario vegetated roof delivers long-term performance



The Kipling Transit Hub is one of the newest parts of the Metrolinx web of rapid transit connections meant to create a seamless journey for passengers across the Greater Golden Horseshoe. From the Kipling Transit Hub passengers can hop onto GO Transit, the TTC or MiWay all from the same place.

The unique site conditions with GO Transit buses and railway, TTC and MiWay buses, and the underground terminus of the TTC Bloor subway line, all vying for both above and below ground space, required a unique approach to stormwater control. The roof of the new bus terminal became the primary stormwater control location.

Supplied by **LiveRoof Ontario**, the vegetated roof on the bus terminal covers over 75% of the station roof area. The unique blue-green roof configuration allows up to 150mm of rainfall to be retained and detained on the roof top through the use of RoofBlue Risers and controlled flow drains as part of the roof system. The vegetated roof was also a key feature that provides habitat for insects and pollinators as well as the birds that feed on them.

LiveRoof® BRAND
Hybrid Green Roof Systems

Introduced in 2006, the LiveRoof Hybrid vegetated roof system meets the contractor's need for ease of installation and the building owner's need for reliable, long-term performance. **LiveRoof Ontario** services a significant portion of the vegetated roof market in Ontario, including winning projects of the prestigious Governor General's Medal for Architecture, and some of the largest vegetated roof projects in Canada such as the Humber River Hospital and the Eglinton Maintenance and Storage Facility.

The LiveRoof system uses modules to hold the growing medium and plant material. The modules come in four depths: 2-1/2", 4-1/4", 6' and 8". The 4-1/4" module was used on the Kipling Bus Terminal (GO & MiWay) in conjunction with the RoofBlue Risers to optimise stormwater control on site. The system has adequate depth to absorb rainwater and reduce storm water runoff, while supporting a broad range of plants without adding too much dead load to the roof. In fact, all LiveRoof modules can be installed on the RoofBlue Riser system. Sarnafil provided the single ply PVC roofing system together with a permanent ILD leak detection system to ensure long term roof integrity. The roofing system and all 44,000 sq ft of the LiveRoof system were installed by Flynn Canada's roofing crews during summer of 2020.

In consultation with landscape architects, NAK Design Strategies, modules were provided with two mixes of sedums, each containing up to 15 varieties: an all-yellow flowering mix, and a red and white flowering mix. These were grown in **LiveRoof Ontario's** outdoor nursery and transported ready-to-install at the job site.

See more projects and technical information at www.liveroofontario.ca/ and liveroof.com/. Also, see the Metrolinx video of the installation process: blog.metrolinx.com/2020/09/02/the-grass-is-greener-up-above-new-drone-video-shows-birds-eye-view-of-green-roof-on-kipling-transit-hubs-bus-terminal.