



# DRAINTUBE

## AT WORK

DRAINTUBE™ Case Study

## Roadworks and Civil engineering

The Quebec Transport Ministry and Groupe SM selected **DRAINTUBE™** for use in the construction of a section of **Highway 50 between Côte Angèle and Rivière Saumon (Qc)**.

During the course of a project on Highway 50 west of the city of Côte Angèle and east of Rivière Saumon, the risk of a rising water table below the road was identified by the contractor.

In this particular area, the rising water table made it necessary to install a trench on either side of the road to lower water levels. For the drainage under the foundation two options were considered: 150 mm (6") of clean gravel between 2 geotextiles or **DRAINTUBE™** technology. The granular solution was abandoned due to high costs related to the supplementary excavation of 150 mm (6"). Using DRAINTUBE™ allowed for:

- reducing the excavation depth by 150 mm (6") thus limiting additional costs related to the modification of the road structure,
- replacing a natural material, which is becoming scarce with a less expensive man-made product,
- Assuring a consistent product quality by using a man-made product instead of a natural material,
- Using Lymphéa® hydraulic software to help design the project.



Installation of DRAINTUBE™ on the subgrade – Highway 50

DRAINTUBE™ Installation

**Product:** DRAINTUBE 400P FTF2 D20

**Year:** 2009

**Owner:** Quebec Transport Ministry

**Engineer:** Groupe SM

**GC:** Roxboro

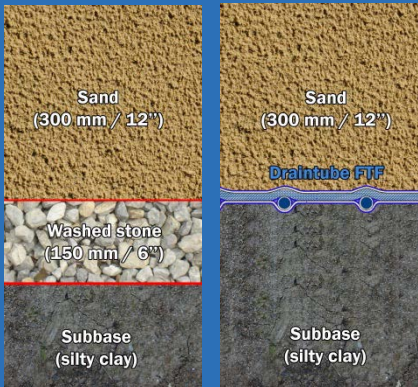
**Total surface:** 32,000 m<sup>2</sup> (350,000 sf)

**Saved GHG** <sup>(1)</sup>: 15 ton/CO<sub>2</sub>

**Traffic reduction:** 750 trucks

*Traditional Solution*

*DRAINTUBE™ FTF Solution*



<sup>(1)</sup> Based on a similar study – 150 mm (6") of stone located at a distance of 15 km.

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Produced by:

**AFITEX • Texel**  
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**DRAINTUBE™, The Drainage YOU Want!**