



VS 5 - Drain Project Report # 3

Project:

**Rickreall Bargain Center
Rickreall, OR**

2,250 sq.ft. VS 5 - Drain

The permeable pavement at Rickreall Bargain Center was designed by Wyatt Pegg with consulting from Willamette Engineering.

Rain water from the roof of the building and from the 17,200 sq.ft. asphalt parking lot all drain onto the 2,250 sq.ft. VS 5-Drain permeable pavement. (All the asphalt was graded to drain water in the permeable area)

The permeable drain area was excavated in native soil 100' x 15' to the depth of 36 in. The excavated trench was lined with geo-filter fabric and 4"-1½" crushed open rock was compacted every 6 inches with a 10 ton static roller to the depth of 30 in.

A layer of ¾"-3/8" crushed open gravel was compacted to the depth of 3 inches over the storage trench rock. A leveling course of ¼"-10 crushed open gravel was applied, VS 5-Drain paving stones installed and compacted. ¼"-10 crushed open gravel was used to fill the friction joints.



Photo courtesy:

Ray Johnson, Western Interlock

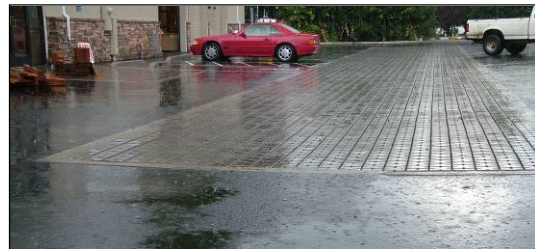
designed for 2 inches of rainfall a day.



All the rain from the asphalt layer drains onto the VS 5-Drain pavement

During the winter of 2007 it rained approximately 4.5 inches in a 72 hr. period and no water back-up occurred in the parking area.

This area has heavy vehicle traffic daily and has performed to the design requirements.



Report provided by: Ray Johnson

VS 5-Drain manufacturer:

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