



# VS 5 - Drain Project Report # 1

**Project:**

**Residence  
West Hill area of Portland, Oregon**

approx. 850 sq.ft. VS 5 - Drain



The owners of this residence in the West Hills area of Portland are conscience of stormwater management.



The City of Portland has promoted stormwater management to the population as an environmental goal for clean water in the rivers to help salmon migration in the city rivers. They offer discounts on commercial parking lots when they manage the storm water on their property.



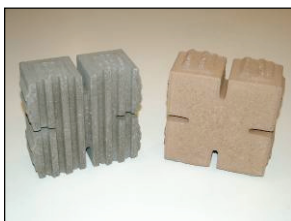
Because they are at the bottom of the hill, a lot of water drains through their property. The drive also drains toward the house.

The contractor, NWR Construction, used an 8 in. base of 1 ½ open gravel base with a perforated 4in. pipe to help with any water the base can not store.

Four inches of ¾ open gravel was compacted on top of the 1 ½ in. open base. 1/4-10 open gravel 1 ½ in. deep was used as a leveling course. All friction joints were filled with 1/4-10 gravel.

Photo courtesy:  
Ray Johnson, Western Interlock

Report provided by:  
Ray Johnson, Western Interlock



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