## **DESIGN** CONSTRUCTION

# A solution to the problem

# Pervious pavement doesn't have to be cost-prohibitive

Clark County gets more than 41 inches of rainfall a year. That's an astounding 25,400 gallons of water for every 1,000 square feet of developed area. In other

words, the parking lots and shopping areas of Westfield Vancouver Mall alone will generate 68.4 million gallons of runoff this year.

With about 400,000 residents and growing, continued urban development for Clark County

is inevitable. Southwest Washington has to find creative methods to handle stormwater runoff without over-burdening stormwater systems, or degrading the quality of streams and rivers.

Recent regulatory proposals by the Washington state Department of Ecology have government officials and developers concerned that guidelines for larger or more numerous bioswales and

detention ponds will negatively impact buildable land and drive up the cost of economic growth. But what if developers could reduce or eliminate the need

for ponds by using pervious pavers?

Developers may shy away from the thought of pervious pavers because they can be up to four times the cost of traditional pavers. But best management practices from the

or vegetated filter strips, may eliminate or reduce the need for land-intensive best management practices, such as dry extended detention or wet retention ponds. In areas where land prices are high, the savings associated with decreased land consumption should be considered."

Developers should also note that runoff for an entire asphaltic concrete or asphalt driveway or parking lot can be managed with just a strip of high performance pervious pavers down one side or around the perimeter. The cost

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when the area is designed efficiently, and often, the benefits for using high performance pervious pavers go far beyond cost efficiencies.

payer, which is a mix of natural rock and inert binder that provides a flow-through rate of more than a gallon of water per second, per square foot. That means the pavers are effective even during an excessive 5-inchper-hour storm event.

first pervious paver production facility on the West Coast -Permapave Northwest.

The company is looking at a number of white aggregates to produce a rooftop paver able to be certified for LEED points in being acceptable for cool roof standards in California.

at Permapave Northwest in Vancouver. He can be reached at 360-694-0146 or

does not have to be prohibitive

One local solution is a pervious

Vancouver is home to the

Washington and Oregon, while

Deen Gill is chief estimator estimating@permapavenw.com.

### **IC** BRIEFS

#### **County closes Battle Ground permit center**

In response to the continuing downturn in construction, permit applications and fee revenue, Clark County has closed its permit center in Battle Ground.

There was no staff reduction associated with the closure, said Chief Building Official Jim Muir.

The remaining county permit center is open weekdays from 8 a.m. to noon and 8 a.m. to 4 p.m. on Wednesdays at 1300 Franklin St. in Vancouver.

#### **RSV** wins Kiewit expansion bid

Vancouver-based RSV Construction Services Inc. began work on the second phase of construction at Kiewit Pacific Co.'s Northwest District Office in Vancouver.

RSV completed the first phase of construction in April, with the addition of a new 25,261-square-foot building. The second phase includes remodeling the existing 20,000-square-foot building and re-skinning the existing 4,000-squarefoot storage and maintenance facility with new roofing and siding.

Kiewit is doubling its Vancouver office space to accommodate more staff.

The project is set to be complete in September.

Environmental **Protection Agency** note that while "pervious pavement can range up to \$8 per square foot depending on the design, pervious pavements, when used in combination with other techniques such as bio-retention cells, vegetated swales

**DEAN GILL** 

Permapave Northwest



Rank