

Standard Guidelines for Product Review

## Highway Edge Drains;

### Section 02410.00

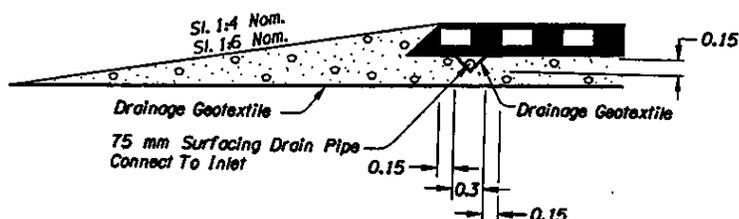
April 17, 2002

#### 02410.00 – Highway Edge Drain

ODOT maintains a list of products suitable for placement in the aggregate base, on the edge of, but under the pavement surfaces. It should be designed to capture water coming up from under the pavement surface and water that comes down off the roadway. The product shall not allow the passage of fine-grained particles from the surrounding material. It then channels the water along the roadway following the roadway grade and has periodic outlets into suitable drainage structures.

**Specifications:** In our effort to try not to limit new ideas and technology, we are going to describe what we expect the product to be able to do.

- It must have flow characteristics equal or greater than that of a 75-mm surfacing drain pipe.
- The drainage system shall have an apparent opening size equal to or greater than 212  $\mu\text{m}$  or smaller (per table 02320.20-1 in our Standard Specifications).
- The system shall be non-biodegradable and designed to last at least 15 years.
- The vertical dimension of the drain should NOT be more than 200 mm, so that it doesn't extend into the sub-base or sub-grade.
- It must be able to have equal or greater contact to the aggregate base that it is draining. This area is estimated at 450 mm transversely and should run longitudinally.



- The drawing above is an example of what we are designing (dimensions are in meters).
- The installation must be able to withstand the compactive effort applied to the aggregate and asphalt being placed around it as well as the high temperatures associated with this application.

**To apply** for inclusion on the QPL, submit the following:

- Preliminary information for Product Evaluation Form.
- Spec data sheet, including the basic ingredients of the material.
- Detailed installation instructions, including limitations and precautions.
- Evidence that you comply with the above specifications.
- A small sample of the product.

#### **Submit documentation to:**

Oregon DOT  
Mike Dunning  
800 Airport Road SE  
Salem OR 97301-4798