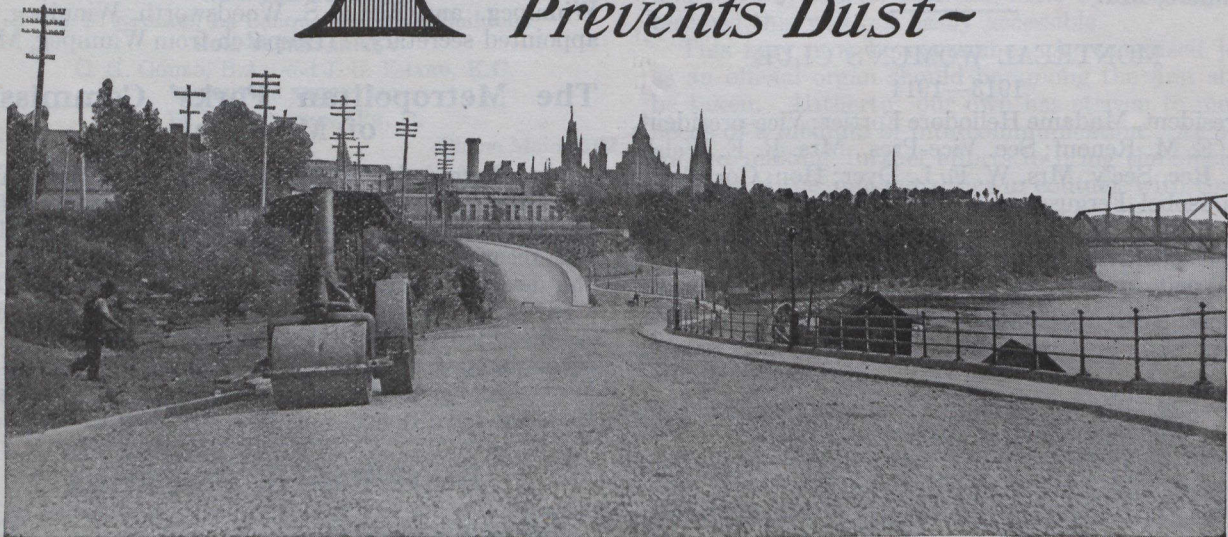


Tarvia

*Preserves Roads
Prevents Dust~*



Lady Grey Road, Government Road, Ottawa, Ont. Canada's Mint in foreground.
Parliament Buildings in background. Tarvia Modern Pavement finished Aug. 1, 1913.

A New Principle in Road Building

IT has long been recognized by engineers that one of the greatest causes of the destruction of macadam road by traffic has been the internal movement caused by the passage of heavy loads. The endless shifting and creeping of the lower courses of stone causes a grinding and pulverization which destroys the stone and breaks the bond.

To reduce this internal movement engineers have buried the larger stone under successive layers of finer stone. This fine stone forms dust more rapidly but the dust serves to protect the foundation of the road by acting as a cushion. Modern traffic makes the use of such dust cushions quite impracticable, for the automobiles not only stir up the dust but create entirely new conditions by scouring the surface of the road and breaking the bond with the backward thrust of their driving wheels.

The possibility of making roads automobile-proof by using Tarvia as a binder from top to bottom of the wearing-course during the construction of the road has now been satisfactorily demonstrated. The Tarvia fills the voids and forms a tough, durable matrix in which the stone cannot shift or grind. Consequently it has become possible to use large stone in a much greater proportion of the construction. The fine screenings and stone chips are used only on the surface as a finishing coat.

Traffic wearing away the surface strikes the layer of large stone in the tarvia matrix and makes little or no impression upon it. The large stone pulverizes but slowly and cannot be torn loose by automobile wheels. It does not change contour, sheds water instantly, is free from dust, costs but a trifle more to build than ordinary macadam, costs much less to maintain.

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