

the new gutters. They are now connected with the gutters by perishable timber boxes. While the work of street improvement is in progress, these basins should be removed to their proper location in the gutter, and grated. If the present form of connection is to be retained, they at least should be made of vitrified tile properly protected at the inlet.

### TAR MACADAM.

Tar macadam is a comparatively little known form of pavement in Canada, although it has been used in England for some years, also in a few towns of the United States. Hamilton, Ontario, is the only city in Canada to adopt this form of pavement generally, and is now spending about \$150,000 on this work. The addition of tar renders the pavement less impervious to moisture and prevents mud and dust. It is easily repaired, and requires less scraping than does ordinary macadam. Its durability surpasses that of ordinary macadam, and the additional cost is about 15c. per square yard. With a soft porous stone such as your limestone, the use of tar would be a decided improvement, as it would add very much to the life of your broken stone pavements.

The method of construction is, in the preliminary steps, similar to ordinary macadam. The last two layers only of broken stone, together with a top dressing of fine material, being treated with tar. The process of saturating the stone with tar is a simple one. The stone is first allowed to become thoroughly dry in the sun. The tar is heated in cauldrons close to the work. The mixing is done on a plank platform. While the boiling tar is being applied, the stone is turned and returned with shovels in a manner similar to concrete mixing. The mixture is then carried in wheelbarrows to the work, spread to the desired thickness, and each layer rolled. On the surface of the tarred stone is spread a 1-inch surface of tarred gravel and fine crushed stone, which is rolled to a hard finish. A light color may be obtained by sprinkling a light coating of cement, as with an asphalt pavement.

### CEDAR BLOCKS.

Cedar blocks have been used in Winnipeg with as little satisfaction as elsewhere. They were probably as cheap a