

**HAMILTON, ONT.**—Construction of sewers: Bay street north, David Newland, 34½ cents per ft.; Wilson street, \$1.07; Strachan street, J. J. Armstrong, 37 cents, Bay street, 73 cents, and Sanford avenue and Harvey streets, 64½ cents, J. J. Armstrong.

**PETROLIA, ONT.**—Tenders for granolithic walks were received as follows: William Ellis, Sarnia, 10 cents per square foot (accepted); Forest City Paving Co., London, 10 3/8 cents; J. F. Langley, London, 10¼ cents; Cadwell Silex Stone Co., Windsor, 10½ cents.—Pork Packing factory: Brickwork, Thompson Bros., of Windsor.

**WINNIPEG, MAN.**—Addition to departmental stores for J. Robinson Co. Architect, James Cadham; masonry, Robert Watson; carpenter work, S. B. Ritchie. Building will be two-storeys and basement, stone foundation, steam heating.—Packing house for J. Brown: Alsip Bros., contractors; cost about \$25,000.—Addition to Canada Life Building: Illsley & Horn, of Toronto, successful tenderers.

### MASONRY FOR RAILWAY BRIDGES.

(Continued from last week.)

No hammering will be allowed on any stone after it is set. Each stone must be set upon a full bed of fresh mortar, the broadest bed down, and brought to a firm and level bearing without spalls or spinners.

**BACKING.**—The backing shall consist of large-size, well-shaped stones laid in full mortar beds, and breaking joints so as to thoroughly bond the work together. The spaces between the larger stones shall not be more than 6 inches in width, and shall be thoroughly filled with small stones and spalls laid flat, and all spaces flushed full with mortar or good cement grout. The courses shall correspond with the face stone, but may be made up in part by two thicknesses, providing no stone less than 8 inches thick be used. In cases approved by the engineer, satisfactory Portland cement concrete with large stones embedded in the concrete may be used for backing.

**SECOND-CLASS MASONRY.**—Second-class masonry shall be laid in cement mortar. The face stones shall be rock

faced; no projections over 3 inches, edges pitched to a straight line, shall have parallel beds and rectangular joints. The beds and joints for 8 inches back from face shall be dressed to lay not over ¼-inch joint. The stones need not be laid up in regular course, but shall be laid level on their natural beds, shall be well bonded, having at least one header 3 feet 6 inches long to every three stretchers with joints well broken; no stone shall be less than 8 inches thick, and no stone shall measure in its least horizontal dimensions less than 12 inches, nor less than its thickness.

**BACKING.**—The backing shall consist of well-shaped stones not less than 6 inches thick, and of which at least one-half shall measure 3 cubic feet, to be laid in

full mortar beds, with joints well broken, well bonded together and with the face stone. All spaces to be thoroughly filled with small stones and cement mortar.

**THIRD-CLASS MASONRY.**—Third-class masonry shall be laid dry or in mortar according to the direction of the engineer. It shall consist of good quarry stone laid upon the natural beds and roughly squared on joints, beds and faces, the stones breaking joints at least 6 inches; the walls shall be bound together by headers, occupying one-fifth of the area of the face of the wall front and rear, and extending through walls 3 feet or less in thickness; no stone shall be used in the face of the wall less than 6 inches thick or less than 12 inches on the least horizontal dimensions.

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Correspondence invited. . . . .

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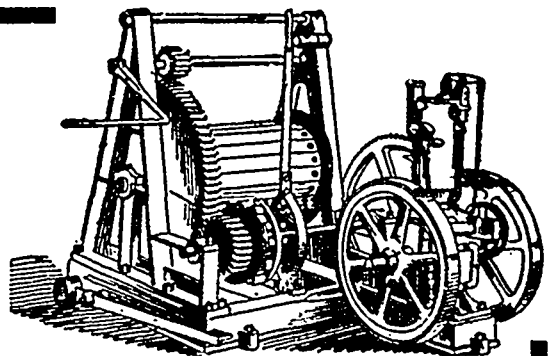


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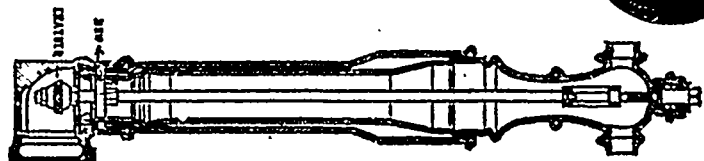
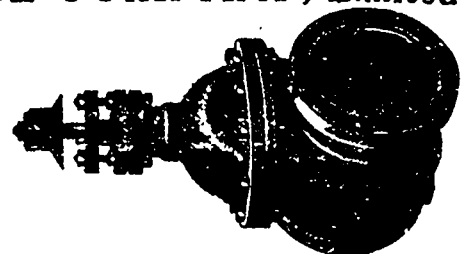
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