

the recommending advantages of the use of brick over stones is through the perfect bonding which may be obtained throughout the mass of the work; the ease and certainty of obtaining solid and homogenous bedding of the bricks when laid by skilled bricklayers working under the recognized conditions essential to the production of good work—also the imperishable nature of the material as compared with most of the building stones in use—even the granites, and the ease with which they lend themselves to the construction and production of complex forms and outlines under a skilled treatment as compared with the vastly greater expenditure of labor and material required to bring about similar results in stone. Of the importance and necessity of solidly bedding the bricks and effectually flushing up the interior joints (known as cross-joints and wall joints), no one is so fully alive as the civil or municipal engineer long experienced in the construction or personal superintendence of sewers, waterworks, and hydraulic work generally. Apart from flushing up brickwork, as a means of obtaining the maximum amount of tensile strength, in addition to that obtained by good transverse and longitudinal bonding, to carry the loads to which most walls are subjected, and to provide against the possible lateral movement of any of the constituent parts when the whole is under strain, the question has its sanitary aspects also; and by reference to most of the published engineers' pocket books will be found formulae to find the amount of air in a cubic foot which will, in a given time, under certain conditions stated, pass through walls of varied thickness built of different kinds of material. The walls of dwelling houses, defectively flushed up, are therefore, admittedly, air filters on a very large scale. They are also liable to be receptacles of damp driven in by storms, and induced by the hollow, or partially hollow, state of the brickwork, leading up to disease, and in some cases, probably to fatal consequences.—Builder and Woodworker.

AS TO ADVERTISING.

A man does not have to get his head very far above the sea of mediocrity to command attention. Nine cases in ten, when a man says that advertising does not pay, he has arrived at this conclusion because he has expected the newspaper to do it all. If he were to neglect his show window and his store front as he neglects his advertising space, he would have still other complaints to make about business in general. If the windows were never washed and the display of goods never changed, he would not expect many people to stop and lose themselves in an ecstasy of admiration; and yet he does seem to expect just this sort of thing for an old, moss-covered advertisement.—C. A. Bates.

Send for a copy of the second edition of the **CANADIAN CONTRACTOR'S HANDBOOK**. Price, \$1.50; to subscribers, \$1.

ARTIFICIAL STONE PAVEMENTS

SIDEWALKS A SPECIALTY

CORPORATIONS Will do well to consider our work and prices before letting contracts

The Silica Baritic Stone Company of Ontario, Ltd.

WALTER MILLS,
General Manager.

Head office:
INGERSOLL, ONT.

FOR ARTIFICIAL STONE PAVEMENTS, ROOFING GRAVEL,
CONCRETE, ETC.

USE CRUSHED QUARTZITE

SILICA SAND & GRAVEL CO.

Telephone 2444

MONTREAL

15 Mill Street

..... Write for prices delivered in your town. .

Drummond McCall Pipe Foundry Company,

Canada Life Building - MONTREAL.

MANUFACTURERS OF

CAST IRON WATER AND GAS PIPES

WORKS: LACHINE, QUE.

PRICES ON APPLICATION.

THE THREE RIVERS IRONWORKS CO.

Montreal Office: IMPERIAL BUILDING.

THREE RIVERS, P. Q.

MANUFACTURERS OF

Cast Iron Water and Gas Pipes

of best quality, from 2 inches in diameter.

HYDRANTS, VALVES and GENERAL CASTINGS.

ST. LAWRENCE FOUNDRY COMPANY, LTD.

Manufacturers of

CAST-IRON WATER & GAS PIPES.

ARCHITECTURAL IRON & STEELWORK.

Front St. East
TORONTO, ONT.

-- BRAND "SIEMENS" --

CAST IRON WATER PIPES

From 4 in. to 36 in. Diameter.

BELL AND SPIGOT • TURNED AND BORED

AND EVERYTHING NECESSARY FOR

A Complete Water or Gas System

SUPPLIED BY — The LONDONDERRY IRON CO., Ltd.

LONDONDERRY, NOVA SCOTIA

THE MOST COMPLETE IRON WORKS IN CANADA (ESTABLISHED 1852.)

Send for Drawings and Estimates of our work.

ALL PIPES CAST VERTICALLY

WE MAKE

PIG IRON
WATER PIPES
PUDDLED BAR
HYDRANTS
VALVES
PIPE SPECIALS
HEAVY CASTINGS
STRUCTURAL WORK
ARCHITECTURAL WORK
MACHINE WORK
HYDRAULIC MACHINERY
TURBINES

MUNICIPAL DEBENTURES

wanted for foreign clients. We can place Debentures direct with foreign clients without charge to municipalities.

: : : Commission allowed to persons introducing new business : : : :

ÆMILIUS JARVIS & CO. (Member Toronto Stock Exchange) — 23 King St. West, TORONTO
Stock and Bond Brokers. Investment Agents.

ELECTRIC RAILWAY BONDS PURCHASED.

STOCK EXCHANGE ORDERS PROMPTLY EXECUTED