

MUNICIPAL ENGINEERS, CONTRACTORS, AND MATERIALS.

farther wheel to the outside of the paved part of the roadway, sixteen feet four inches, or in round numbers sixteen feet would be the proper width to allow vehicles always to keep their own side of the road without going off the paved portion, and it will always give a play of almost two feet on each side, and nearly four feet altogether, thus leaving space enough for vehicles to avoid always going in the same track, and wearing the roadway into ruts. If any further addition is to be made to the width of the macadamized portion it should be enough to allow three vehicles to pass over it abreast, sixteen feet and eight feet; twenty-four feet in all.

On the general question of the present method of sewer ventilation by the open gratings into public thoroughfares, the Medical Officer of Health for Chelsea has just presented a report. Dr. Louis C. Parkes very properly describes the whole system as a menace to public health, and hints that the serious increase of diphtheria in London during recent years may be due to this amazing disregard of decent sanitary conditions.

J. M. SHANLY, M. AM. SOC. C. E., M. CAN. SOC. C. E.
 J. M. MCCARTHY, D. A. S. C., A. M. CAN. SOC. C. E.
SHANLY & MCCARTHY,
 CIVIL ENGINEERS,
 STANDARD BUILDING MONTREAL.
 Bridges, Waterworks, Sewerage, Railways, &c

We manufacture the
Thorold Cement

Since first manufactured, in 1841, over ONE MILLION BARRELS of the Thorold Cement have been used in the important public works constructed by the Dominion Government. In 1891, '92, '93, among other sales were the following:

St. Clair Tunnel Co.	10,000 Barrels
Kingston Graving Dock	2,000 "
Edison General Electric Co.	2,000 "
Town of Petrolia	2,000 "
Sault Ste. Marie Canal	13,500 "

ESTATE OF JOHN BATTLE,
 Thorold, Ontario.

Drummond McCall Pipe Foundry Company,

MONTREAL
 MANUFACTURERS OF

CAST IRON WATER AND GAS PIPES

WORKS: LACHINE, QUE. PRICES ON APPLICATION.

Ontario Water Meter Co., Ltd.

MANUFACTURERS OF
WATER METERS



Meter Supports, Dial Extensions, Fixture Locks, Water Cart Registers, Strainers, Coupling Seals and Reservoir Indicators. Send for Price Lists and Testimonials. Highly endorsed by leading Engineers. All information furnished on application to

OFFICE: 23 TORONTO STREET, TORONTO. A. C. WINTON, Secretary-Treas.

MUNICIPAL OFFICIALS should see to it that in the erection of town and city PUBLIC BUILDINGS, the installation of water works plant, etc., the advantages of **MINERAL WOOL**



are made use of for deadening sound in floors and partitions, insulation of heat and cold, fireproofing, etc., also SECTIONAL MINERAL WOOL COVERING for steam pipes, boilers, exposed water pipes, etc.

CANADIAN MINERAL WOOL CO., Limited, 122 Bay Street, Toronto.
 Montreal Agent: GEO. R. THOMPSON & CO., Agents, Winnipeg, Man.
 GEO. A. COWAN, Room 23, 204 St. James St.

DEBENTURES WANTED.

Municipalities issuing debentures, no matter for what purpose, will find a ready purchaser by applying to **G. A. STIMSON, 9 Toronto Street, Toronto.** N.B.—Money to loan at lowest rates on first mortgage.

WILLIS CHIPMAN, B. A. Sc.,

M. Can. Soc. C. E.; M. Am. Soc. C. E.; M. Am. W. V. Ass'n.

CIVIL AND SANITARY ENGINEER

Water Works - Sewerage
 Sewage Disposal
 103 BAY STREET - TORONTO.

J. McDOUGALL, C. E.,

ENGINEER COUNTY OF YORK,

Consulting Engineer for Municipal Work.

Electric Railways and Bridges.

COURT HOUSE, - TORONTO.

JOHN GALT

C. E. AND M. E., M. CAN. SOC. C. E.,
 Consulting Engineer.

20 Years Practical Experience in England, United States and Canada in Civil, Sanitary, Hydraulic, and Mechanical Engineering.

SPECIALTIES:
 WATERWORKS, SEWERAGE, ELECTRIC RAILWAYS.

Office: Rooms 99 and 100,
 CANADA LIFE BUILDING, - TORONTO.

Fire Bricks and Cement

DRAIN AND WATER PIPES
 SANITARY EARTHENWARE
 LONDON PORTLAND CEMENT
 GUARANTEED GENUINE.

Paving and Scoria Bricks for Stables, Sidewalks, Yards, etc.

Large quantities on hand and to arrive. We handle only the best quality. Prices lower than ever.

F. HYDE & CO.

31 Wellington Street, - MONTREAL,
 Sole Agents for

THE "GRAHTRYX" SMOKE TEST AND DISINFECTING MACHINE.

PORTLAND CEMENT

BEST AND CHEAPEST IN TORONTO.

JOSSON, PETERS and BURHAM Brands for highest class work.
 WHITE HORSE, R. W., IMPERIAL, &c., FROM \$2.00 PER BARREL.

Nichols, Smythe & Co., - 25 George St., Toronto.

CEMENT CONTRACTORS TO THE CITY OF TORONTO.
 Telephone 1948 or call and see us.

CANADA PIPE AND FOUNDRY CO. . . .

MANUFACTURERS OF

Cast Iron Pipes and Special Castings

Works: MONTREAL AND ST. HENRI, QUE.

CORRESPONDENCE SOLICITED.

THE STANDARD DRAIN PIPE CO.

OF ST. JOHNS, P. Q., (LIM.)



Manufacturers of

Salt-Glazed,
 Vitrified
SEWER PIPES

Double Strength
 Railway Culvert Pipes,
 Inverts, Vents,

AND ALL KINDS OF FIRE CLAY GOODS.

STEVENS & BURNS

London, Ont.

To Municipal Corporations and Contractors:

... WE MANUFACTURE ...

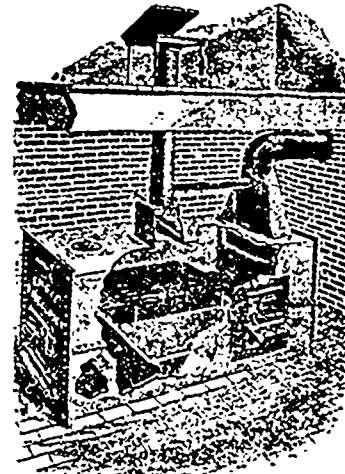
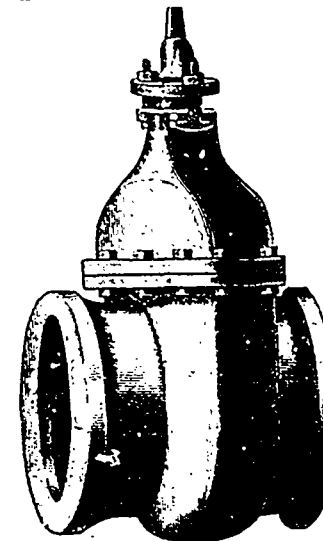
Hydrants, Valves, Valve Boxes

and Water Works Supplies generally,

INCLUDING

Tools for tapping mains under pressure

and Service Brass Work of all descriptions.



THE ENGLE CREMATING CLOSET

A SUBSTITUTE FOR PRIVY VAULTS AND CESS POOLS.

A PERFECT SANITARY TRIUMPH,

Applicable to the uses of schools, colleges, hospitals, factories, asylums and dwellings.

This closet is invaluable where sewer and water privileges are not obtainable, possessing all the convenience of the modern water closet.

Manufactured and erected in sizes suitable to any number of persons, by

TORONTO FURNACE & CREMATORY CO., LTD.

8 & 10 Queen St. East, TORONTO.

WRITE FOR CATALOGUE CONTAINING FULLEST INFORMATION AND EXPLANATION.

THE G. & J. BROWN MFG. CO.

Railway and Contractors' Plant.

BRIDGE BUILDERS

BELLEVILLE, ONT.