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# CANADIAN CONTRACT RECORD

A WEEKLY JOURNAL

PUBLIC WORKS • TENDERS •  
ADVANCE INFORMATION •  
AND MUNICIPAL PROGRESS

EVERY THURSDAY

This paper reaches every week the Town and City Clerks, Town and City Engineers, County Clerks and County Engineers, Purchasers of Municipal Debentures and leading Contractors in all lines throughout Canada.

VOL. 6.

MARCH 28, 1895

No. 8.

## THE CANADIAN CONTRACT RECORD,

PUBLISHED EVERY THURSDAY

An Intermediate Edition of the "Canadian Architect and Builder."

Subscription price of "Canadian Architect and Builder" (including "Canadian Contract Record"), \$2 per annum, payable in advance.

C. H. MORTIMER, Publisher.

CONFEDERATION LIFE BUILDING, TORONTO.  
Telephone 2362.

New York Life Insurance Building, Montreal  
Bell Telephone 2299.

Information solicited from any part of the Dominion regarding contracts open to tender.

Advertising Rates on application.

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## SMOKE-CONSUMING

### Down Draught Furnaces

Notice is hereby given that tenders addressed to the City Engineer and marked "Tenders, Down-Draught Furnaces," will be received by registered post only, up to the hour of eleven o'clock a. m. on MONDAY, 25TH MARCH INST., for the work of converting the furnaces now in use at the new engine house of the Water Works Pumping Station on the Esplanade, to down-draught smoke-consuming furnaces. Among other guarantees which competitors will have to give will be the following:

"That the furnaces will consume ninety-five per cent. of the smoke when burning any grade or quality of soft coal, and that the economy effected must be at least thirty-five per cent. over the present method of making steam."

All further information may be obtained and the specifications may be seen at the office of the City Engineer, City Hall, Toronto.

Tenders must be made upon the proper form issued by the City Engineer, and must bear the signatures of two good and sufficient sureties. A deposit (cash or marked cheque) equal to the sum of two and one half per cent. of the amount of the tender must accompany each tender.

The lowest or any tender not necessarily accepted.

DANIEL LAMB,  
Chairman of Committee on Works  
City Hall, Toronto, 14th March, 1895.

## EXTENSION OF TIME

The time for receipt of tenders for the above work has been extended until the hour of eleven o'clock a. m. on SATURDAY, 6TH APRIL, proximo.

DANIEL LAMB,  
Chairman Committee on Works.  
City Hall, Toronto, 25th March, 1895.

At Budapest they are constructing new waterworks on the banks of the Danube, a few miles above the city, taking the supply from tube wells located about 100 yards from the bank of the river.

## TENDERS

Sealed tenders, marked "Waterworks," will be received by the undersigned on or before the

1st of May, 1895,

For the construction of

### A SYSTEM OF WATERWORKS AND SEWERAGE IN THE TOWN OF SUDBURY, ONT.

Plans, specifications, etc., can be seen and forms of tender had at the following places:

Office of Gordon & Rorke, Engineers, Sudbury.

" Montreal Star, Montreal.

" Messrs McPherson, Clark & Jarvis Bar-

risters, Toronto.

An accepted bank cheque, equal to 5 per cent. of the amount of tender must accompany each tender. This cheque will be forfeited if the party declines to enter into the contract and will be returned in case of non-acceptance of tender.

The lowest or any tender not necessarily accepted.

A. FERRIS,

March 18, 1895.

Clerk Town of Sudbury

## PROPOSALS

- - FOR - -

### WATER WORKS

Sealed Proposals will be received by the undersigned until 3 o'clock p.m. on Monday, the 15th day of April, prox., for the construction of a Water System for the Town of Westville, Nova Scotia, including:

- Pumping Station and Draught Stack of brick.
- Boilers, Engines, Pumps, &c.
- 7½ miles of 10in., 8in., 6in., and 4in. pipe line.
- Infiltration Works.

- Reservoir of 1,500,000 gallons capacity, and other usual appurtenances of a town water service.

Plans and detailed specifications may be seen at the town office in Westville, N. S.

Proposals will be received for the whole work or any part thereof, or for the supply of any or all materials.

The right is reserved to reject any or all proposals.

GEO. E. MUNRO,  
Mayor.

Westville, N. S., 12th March, 1895.

## TENDERS

FOR

### Loan of \$60,000

Tenders will be received by the undersigned at the Post Office, Westville, N. S., up to five o'clock p.m. on Wednesday, the 20th day of April next, from parties willing to purchase \$500 debentures of the town, to be issued to the amount of \$60,000, under the authority of a bill to authorize the Town to borrow money for a water system for the Town, which has passed both branches of the legislature.

The debentures will be dated on or about the first day of July, 1895, will bear interest at the rate of four and a half per centum per annum, payable half yearly on the 2nd day of January and the 2nd day of July, and will run for twenty years.

The Town does not bind itself to accept the highest or any tender.

ALEX. W. McBEAN,  
Town Clerk.

Westville, N. S., 13th March, 1895.



## NOTICE TO CONTRACTORS

Tenders will be received by registered post, addressed to the City Engineer, Toronto, up to 11 o'clock a. m. on SATURDAY, APRIL 6, 1895, for the following works:

### CONCRETE SIDEWALKS.

On Lombard street, north side, from Victoria street to Church street.

On Adelaide street, north side, from the post office to Church street, except opposite Nos. 60½ and 62.

### ASPHALT PAVEMENT.

On Leader lane, from King street to Colborne street.

Specifications may be seen and forms of tender obtained at the office of the City Engineer, Toronto, on and after March 30, 1895.

A marked cheque payable to the order of the City Treasurer, for the sum of 2½ per cent. on the amount of the work tendered for, must accompany each and every tender, otherwise it will be ruled out as informal. The lowest or any tender not necessarily accepted.

DANIEL LAMB,  
Chairman Committee on Works.

Committee Rooms, Toronto, March 27, 1895.

## NEW COMPANIES.

GUELPH, ONT.—The Loughlin-Hough Drawing Table Co., applying for incorporation; capital, \$45,000.

THREE RIVERS, QUE.—Three Rivers Iron Works Co., seeking incorporation; applicants, A. A. Charlebois, of Quebec; H. McRae and George Duval, of Ottawa, W. Duncan, of Three Rivers, and A. Charlebois.

AYLMER, QUE.—The Deschenes Electric Co., seeking incorporation; capital, stock, \$60,000; to build and operate works for supplying electricity; applicants, R. H. Conroy and J. C. Nelson, of Aylmer, J. C. Dennis, of Ottawa, and others.

PERTH, ONT.—Facer Solid Steel Car Wheel Company, incorporated; capital stock, \$320,000; incorporators, A. Facer and Edward Ramsdem, Philadelphia; A. T. Wilson, J. M. Baldersom and S. C. Wilson, Perth, Ont., and W. H. Churchill, of Lanark County.

TORONTO, ONT.—The Diehl Manufacturing Co., of Toronto, incorporated; capital, \$30,000; to manufacture mantels, furniture, etc.—Ontario Paving Brick Co., Ltd., applying for incorporation; applicants, S. G. Beatty, A. E. Kemp, C. R. S. Dinnick, William J. Mitchell and W. A. Kemp, all of Toronto. The first directors of the company are to be Messrs. Beatty, Dinnick and A. E. Kemp. Business will be carried on at Toronto.—Toronto Mineral Wool Manufacturing Co., applicants: B. L. Brown, L. E. Hambly, A. P. Jameson, Joseph Mansell and Watson Mashin'er, all of Toronto, applying for incorporation; capital stock of \$24,000.—Ontario Vencer Co., seeking incorporation; capital, \$20,000; incorporators, W. A. Gunn, H. L. Dance, John Bell, G. E. Bell and George Bennett.

## CONTRACTS OPEN.

**EMBRO, ONT.**—A large oatmeal mill will be built here.

**KNOWLTON, QUE.**—Mr. McElroy is preparing to erect a new block.

**BROCKVILLE, ONT.**—Rufus Brown will this season erect a new residence.

**CORRYVILLE, ONT.**—W. Palmer will rebuild his hop house recently burned.

**FARNHAM, QUE.**—The Canadian Pacific Railway bridge here is to be rebuilt.

**FORDWICH, ONT.**—The erection of a new residence next summer is contemplated by A. Wyness.

**BRUSSELS, ONT.**—It is stated that a brick block will be built here next summer for store purposes.

**WATERLOO, ONT.**—The construction of a system of sewerage for the town has been decided upon.

**SUSSEX, N. B.**—C. Davis, of the firm of W. B. McKay & Co., contemplates erecting a new residence.

**NAPANEE, ONT.**—Mrs. Jonas Clapp has purchased a lot adjoining Alex. Lafferty's, and will erect a brick residence thereon.

**KINGSVILLE, ONT.**—Dr. Andrew Wigle is preparing for the erection of a large block on the corner of Main and Division streets.

**VANCOUVER, B. C.**—The Water and Light Committee have decided to call for tenders for arc and incandescent street lighting for terms of five, seven and ten years.

**OSBORNE, ONT.**—Tenders are invited by J. D. Miller, Secretary Building Committee, until April 1st for the erection of a brick veneered church for Moore Line Presbyterian congregation.

**PRESTON, ONT.**—A syndicate intend building a new bathing house, to be two storeys high, 50x80 feet and of modern architecture, to cost between \$8,000 and \$10,000. It is to be fitted up with all kinds of baths.

**ST. JOHN, N. B.**—The Y. M. C. A. building is too small for the requirements of the association, and the management is considering the best means of providing additional accommodation. A new building will probably be erected.

**BELLEVEILLE, ONT.**—H. A. Massey, of Toronto, has offered to the Board of Management of Albert College the sum of \$10,000 for the erection of an addition to the existing college buildings, provided a like sum is obtained from other sources.

**LONGUEUIL, QUE.**—The town has decided to build a large filter at the wheel house, and is prepared to receive from filter manufacturers plans and estimates of cost and construction. Communications are to be addressed to M. Dagenais, Secretary-Treasurer.

**KINGSTON, ONT.**—The City Engineer is preparing estimates of the probable cost of completing the waterworks system. The report will be read shortly.—Arthur Ellis, architect, is receiving tenders for additions and alterations to two houses on Maple Terrace.

**GRAHAMSVILLE, ONT.**—Separate or whole tenders are invited by John Sinclair, Sec.-Treasurer School Board, until Friday the 5th of April, for the erection of a brick school house in school section No. 24. Plans may be seen at the office of J. A. Trimble, Brampton.

**GUELPH, ONT.**—At a public meeting held to consider the question of improving the fire apparatus, at a cost of \$10,000 to \$15,000, it was decided to defer the matter until January next, when a by-law will be submitted to the ratepayers to raise the necessary funds.

**STRATFORD, ONT.**—Tenders are invited by Wm. Hepburn, Chairman Fire, Water and Light Committee, until Saturday the 13th of April, for lighting the

streets of the city with 73 fifteen hundred candle power arc lamps, also for incandescent lighting for three and five years, city hall, 85 lamps, fire-hall, 15 lamps.

**BRUSSELS, ONT.**—The School Board are asking for tenders until April 2nd for the supply of 120 double or 240 single school seats and desks. Address R. K. Ross, secretary.

**HALIFAX, N. S.**—The Council will probably purchase 2,000 feet of hose.—The Chief Engineer of Government Railways and other officials were in the city last week inspecting railway property. Work at the deep water terminus, the scene of the recent fire, will be commenced at once. It is understood that a sea wall will be built from Cunard's wharf to the dock-yard.

**BRANTFORD, ONT.**—Tenders are invited until noon of March 30 for the several works required in making alterations and additions to the steam heating apparatus of the court house, gaol, registry office, caretaker's and governor's houses in this city. Plans may be seen at the court house, and tenders are to be addressed to H. McK. Wilson, County Clerk.

**DIGBY, N. S.**—The corporation invites tenders until Thursday, the 18th of April, for the construction of a system of water-works, including 7½ miles of 10 inch, 8 inch, 6 inch, and 4 inch pipe line, masonry dam, distributing reservoir of 500,000 gallons capacity, and other appurtenances. Tenders will be received for the whole or in part, and are to be addressed to T. C. Shreve, Mayor.

**WINDSOR, ONT.**—No decision has yet been reached regarding the rebuilding of St. Andrew's Presbyterian church. It is probable that a much larger building than the one destroyed will be erected, on a different site. The City Council will petition the C. P. R. to build an elevator here.—About the end of April the city will put on the market debentures amounting to \$64,000 for sewer and paving work.

**SANDWICH, ONT.**—The Interior Improvement & Construction Company has deposited with the Minister of Public Works of Canada plans and descriptions of two conduit pipes to be laid across the Detroit river, suitable for conveying gas or oil. The pipes will be laid from a point on the river near L'Assomption Church, Sandwich, to the foot of Twenty-fourth street, Detroit.

**OWEN SOUND, ONT.**—Steps are being taken to provide a dry dock capable of accommodating the largest vessels that run on the great lakes. The proposition is to construct a dock 430 feet in length with 16 feet of water on the sills. An east shore site will probably be secured.—The Owen Sound Fruit and Vegetable Company has been formed here, with a capital of \$50,000. The intention is to erect an extensive evaporating plant.

**MONTREAL, QUE.**—The Y. M. C. A. has purchased a lot on Sherbrooke street on which to erect a building for its use during the coming summer.—The Catholic Young Men's Literary and Scientific Institute will request other associations to co-operate in the erection of a central hall for meeting purposes.—The trustees of the parish church of St. Cunezonde have decided to commence the building of a House of Refuge at the corner of Albert st. and Atwater ave. in May next, at a cost of \$120,000.—Messrs. Gamelin & Huot, architects, are preparing plans for a carriage factory for the Montreal Carriage Co.

**WINNIPEG, MAN.**—A spur from the transfer railway will probably be constructed this summer along east Bannatyne street for the accommodation of wholesale warehouses. If it is built James H. Ashdown contemplates erecting on Bannatyne street a large warehouse

for hardware, and Mr. W. F. Henderson, wholesale commission agent, also has in contemplation a new warehouse. Other jobbers are likely to erect warehouses in the same neighborhood.—The congregation of Zion Methodist church will probably erect a new edifice. No decision has been reached in the matter, but it is understood that the question of a site is being discussed, and that the congregation favor the erection of a new building.—Kingsmill, Saunders & Torrance, solicitors, give notice of application to the Dominion Parliament for an act to incorporate the Langenburg and Southern Railway Company, to construct a line of railway from Langenburg, N. W. T., to some point between Red Jacket and Elkhorn, with a branch to Binscarth, Man.

**OTTAWA, ONT.**—An order in council sanctioning the arrangement between the Dominion Government and the Hudson Bay Railway Company has been passed, which provides for a loan of \$2,500,000. It is still stated that work will be commenced on the road within the next few weeks.—The Niagara Central Railway Company is applying to parliament for power to extend its line from Hamilton to Brantford, and thence to Woodstock.—It has been decided by the Finance Committee that the by-law to raise the sum of \$45,000 for the erection of a fire station in the south end of the city, and for other improvements in the fire department, should not be submitted to the people until the January elections.—Owing to the refusal of the contractors whose tender was accepted for the construction of asphalt roadways on Sparks and Bank streets to accept the conditions of the agreement drawn up by the city solicitor, new tenders for the work are invited, to be received by the City Engineer before noon on Wednesday the 10th of April.

**LONDON, ONT.**—Tenders are invited by A. B. Powell, Chairman No. 3 Committee, until April 10th, for a 70 or 75 foot aerial truck, with all apparatus and equipments, including ladders.—The Street Railway company are making arrangements to let the contract for building their proposed power house and stables on Thames street, and as soon as the by-law granting the franchise to the company is signed, the work will be commenced. Tracklaying will be commenced at the same time, as according to the agreement the whole line must be rebuilt within one year.—About twenty designs are said to have been received for the new Dundas street Methodist church, and a selection will probably be made during the present week. The church and school room will cost about \$45,000. The former will seat 1,400 people, and the latter 1,000.—The Hospital Trustees are discussing a proposal to purchase the Hellmuth Ladies' College building for hospital purposes.—It is proposed to construct a brick or asphalt pavement on Dundas street, between Ridout and Wellington streets, and on Richmond street, between G. T. R. tracks and Fullarton street.—Several sales of real estate have taken place during the past week, and indications point to a somewhat brisk building season in this city. Stephen B. Coon has purchased a lot at the corner of Queen's avenue and Maitland street and purposes building two brick houses on the property, the contracts for which will shortly be awarded. W. H. Shannon has purchased a lot on Beaconsfield avenue and will erect a residence thereon this spring.—The following building permits have recently been granted by the City Engineer: Robert North, brick veneer cottage on Byron avenue, cost \$800; Robert Bell, two-story frame house, cost \$1,000; M. Rowland, brick residence on Queen's avenue, cost \$3,000; Mrs. Brighton, one and one-half story frame house on Emery street, cost \$600; Joseph Nicholson, two-story brick veneer house on Piccadilly street, cost

\$1,500; Chas. H. Tune, three brick residences on Richmond street, cost \$1,400.

**HAMILTON, ONT.**—The Sewers Committee have decided to expend \$7,000 in laying a sewer in the East end, and the same amount on the Garth street sewer.—At a meeting of the Water Works Committee held last week, the City Engineer submitted a rough estimate of the various schemes on foot for increasing the city water pressure. A high-level reservoir near the city, with duplicate pumping engines, would cost \$98,800. The cost of a third main on Cannon street would be \$134,750, and a new stand-pipe in the southern district would cost \$96,000. The committee decided not to take any definite action, but to bring the matter up at the next Council meeting.—Building permits have been issued to Thomas Allen, for two two-storey brick dwellings on Morden street, three on King street, and two on Pearl street, at total cost \$9,400.—The City Council has decided to submit a by-law to the ratepayers to raise the sum of \$36,000 for the erection of a new city gaol.

**TORONTO, ONT.**—It is said to be the intention of Frank Boston, of East Toronto, to remodel his present store building into a summer hotel.—The Fire and Light Committee of the City Council are asking for tenders until Monday, the 1st of April, for the furnishing of one one-horse single-tank chemical fire engine of 80 gallons capacity, also for one two-horse hook and ladder truck, one two-horse hose waggon, and two one-horse hose waggons. Specifications may be seen at the office of the Secretary of the Fire Department, Bay street fire hall, and tenders are to be addressed to Mr. Geo. McMurrich, Chairman of the Committee.—The Kemp Manufacturing Company contemplate erecting a factory for the manufacture of granite ware, and have requested the City Council to grant a site on the Don flats for the purpose.—The Rubber Shoe Company of Toronto, whose works are at Port Dalhousie, are considering the removal of their factory from that place, and will locate in Toronto, providing the council will give a free site and exemption from taxation for a term of years. The company propose to erect a three-story building 300x60 feet, with outbuildings for varnish and cement manufacture.—At a meeting of the Board of Works held on Monday last, the recommendations for laying new pavements were referred back, and the City Engineer was instructed to prepare a complete report and list of the streets to be paved during the present year. The Board will hold a special meeting to consider the report at which the question of whether brick or asphalt is to be recommended is to be considered.—The Parks and Gardens Committee have reduced the appropriation for new sheep pens at the Exhibition grounds from \$10,000 to \$7,500.—Building permits have been granted as follows: John H. Clarke, 350 Huron st., det. 2-storey and attic bk. dwelling, 352 Huron st., cost \$2,000; Wm. Booth, det. 2-storey and attic bk. dwelling, 138 Bedford rd., cost, \$3,000; H. Thorne, Queen's Park, additions to 39 Carleton st., cost, \$1,500.

**FIRES.**

R. D. Kennedy's dwelling at Oshawa, Ont., has been burned. Loss covered by insurance.—The Tourists' hotel at Lion's Head, Ont., owned by Capt. Finley McPherson, was consumed by fire on Monday last. Loss partially covered by insurance.—The First Methodist church at St. Thomas, Ont., was burned to the ground last week. The loss is placed at \$25,000, the insurance being \$15,000. The pastor is Rev. James Hannon.—The Main street Methodist church at Exeter, Ont., was destroyed by fire last week. Loss, \$10,000; insurance, \$5,200.—Almost the entire business portion of the Town of Fort William West, Ont., was burned on the

21st inst. Sixteen buildings were destroyed, among them being: Sparr's hotel, Woodbine hotel, O'Connor's hotel, Ontario House, Ingalls' block and several offices and residences. Loss about \$50,000, with little insurance.—Ogilvie's elevator at Methven, Man., was destroyed by fire last week.—The English church at Bayfield, N. S., has been burned. Loss, \$2,000.—The residence of N. P. Roberts, at Pipestone, Man., was destroyed by fire on the 20th inst.—The school house at Brussels, Ont., was burned on Tuesday last. Insurance, \$1,600.

**CONTRACTS AWARDED.**

**BROCKVILLE, ONT.**—The Finance Committee has accepted the tender of the North British & Mercantile Insurance Company for the purchase of \$16,000 of waterworks debentures at \$104.27 and \$8,000 of local improvement debentures, at \$106.84.

**HAMILTON, ONT.**—Contracts have been let for the erection of the new Centenary church Sunday school. The amount to be expended will be \$13,000. Wm. Stewart & Son are the architects. The Building Committee is considering the proposed new church front and other improvements, and have appropriated \$2,500 for frescoing the interior.

**TORONTO, ONT.**—The Fire and Light Committee will recommend the purchase of fire hose as follows: 1,000 feet, 2½ inches, Maltese Cross rubber hose, at \$1 per foot; 1,000 feet, 2½ inches, Baker Fabric cotton hose, at 85c. per foot; 1,000 feet, 2½ inches, Eureka cotton hose, at \$1 per foot; 1,000 feet, 2½ inches, Paragon cotton hose, at 85c. per foot; 1,000 feet, 3 inches, Eureka cotton hose, at \$1.30 per foot; 500 feet, 3 inches, Pure Para rubber hose, at \$1.05 per foot.

**MONTREAL, QUE.**—Edward Maxwell, architect, has awarded contracts as follows for a residence on Pine avenue for Hon. Judge Cross: masonry, Hughes & Brisson; brickwork, Mr. Deguise; carpenter and joiner's work, John Allan; plastering, John McLean; painting, De Zouche & Sons.—A. C. Hutchison, architect, has awarded contracts as follows for a school on St. Denis street: masonry, R. Wilson; carpenter and joiner's work, Simpson & Peel; roofing, Geo. W. Reed; plumbing and heating, Smead, Dowd & Co.; brickwork, W. Lavers; plastering, W. J. Cook; painting, R. H. Bartholemew; iron work, R. Donaldson & Son; electric wiring, C. W. Henderson.

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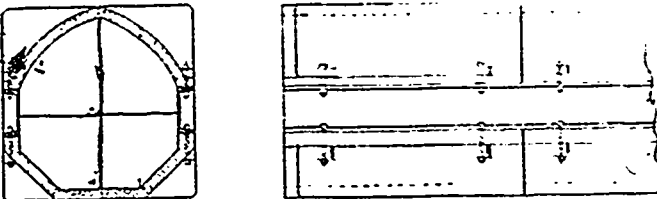
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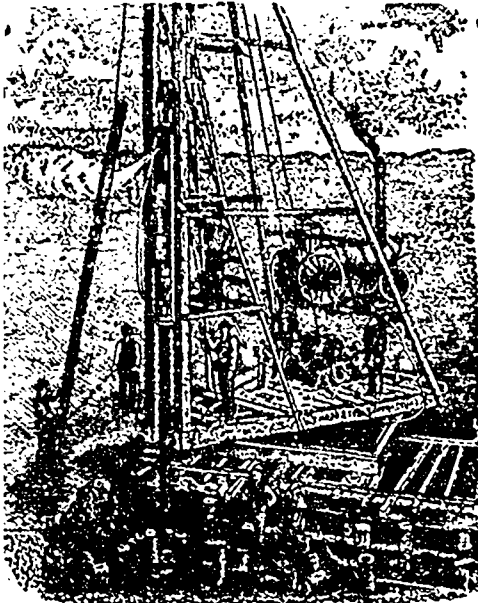


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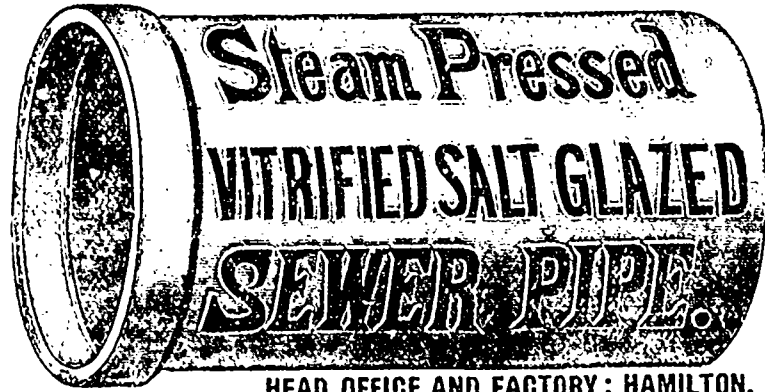
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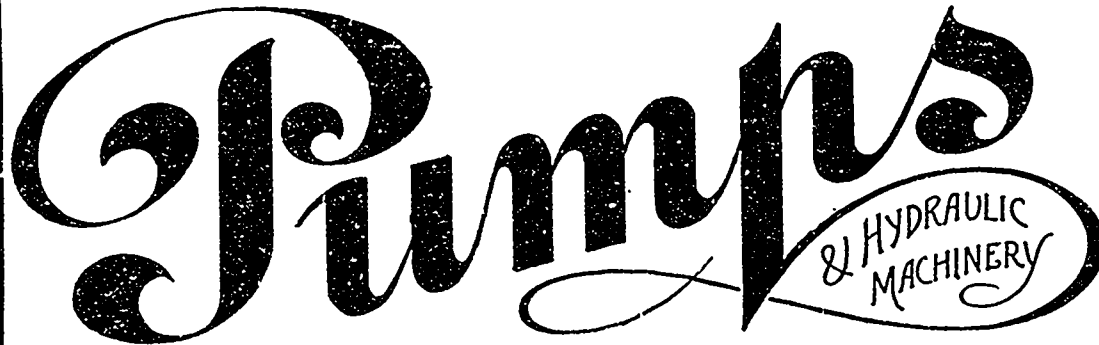
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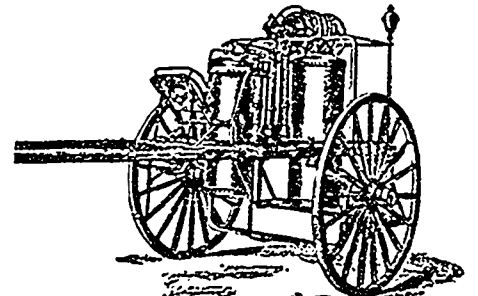
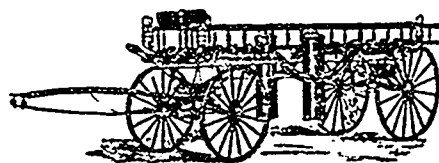
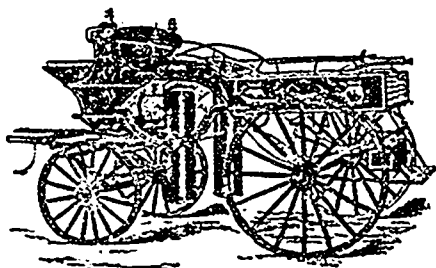
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# MUNICIPAL DEPARTMENT

## MICRO-ORGANISMS OF SEWAGE.

THE Main Drainage Committee of the London County Council recently brought up the following report in reference to this subject: "In accordance with the authority given by the Council on January 23, 1894, the services of Mr. J. Parry Laws and Dr. Andrews were retained for the purpose of making investigations into the bacteriology of sewage, and their report of the result has now been laid before us. These investigations, the Council may remember, were undertaken in order to obtain corroborative evidence as to the conclusions arrived at in previous reports by Mr. Laws on the micro-organisms of sewer air. In those reports it was shown the bacteria of sewer air related were to and derived from those of the fresh air, and not from those of the sewage, and there was no evidence that sewage was able directly to give up its organisms to sewer air. For greater convenience the present report is divided into two parts—the one dealing with the micro-organisms of sewage and their relation to those of sewer air, and the other containing observations on the bacillus of typhoid fever and its relation to sewage. The latter investigations confirm in a most striking manner the conclusions arrived at from the previous experiments on sewer air. If the organisms existing in sewer air were derived from those existing in sewage the bacteria of sewer air should bear a close resemblance to the bacteria of sewage. On contrasting the prevailing organisms of sewage with those of sewer air, they are found to bear no resemblance whatever to one another; indeed, so far as the authors are aware, not a single colony of any of the organisms found to predominate in sewage has so far been isolated from sewer air. Attention was also specially directed to the possible occurrence of the typhoid fever bacillus and the diphtheria bacillus in ordinary London sewage. Therefore every colony which seemed likely to belong to either of these species was the subject of careful investigation. No evidence, however, of their occurrence in ordinary sewage was found. It is pointed out that the failure to find these organisms in ordinary sewage no doubt arises from the fact that the infected material constitutes such a minute proportion of the total bulk of sewage discharged by the sewers. The mathematical chances, therefore, of detecting these organisms are exceedingly minute unless they are capable of vigorous growth and multiplication. Realizing this fact, search was made for the typhoid bacillus in sewers where it might be expected to exist in much larger proportion. On examining sewage taken from the sewer draining the fever block at the Eastern Hospital, after disinfection had been discontinued for a

short period, the existence of the typhoid bacillus was satisfactorily shown—an important fact which has not hitherto been demonstrated. A series of experiments was also made to determine the fate of the typhoid bacillus in sewage, in order to verify or disprove the statement made by many writers that disease germs, such as the typhoid bacillus, find in sewage a suitable soil for their growth and multiplication. On careful investigation it has been found that the bacillus of typhoid fever is not only incapable of any growth and multiplication in sewage, but that after the first 24 hours it slowly and surely dies out, its ultimate death under natural conditions being a matter of a few days, or at most one or two weeks. If the organisms which exist in overwhelming numbers in sewage do not exist in sewer air, how indefinitely remote is the possibility of the existence of the typhoid fever bacillus in the air of the sewers. Sewage is without doubt a common medium for the dissemination of typhoid fever; sewage-polluted soil may give up germs to the subsoil air; but from the results of these investigations it appears in the highest degree unlikely that the air of the sewers should play any part in the conveyance of typhoid fever."

## COMBINED ELECTRIC LIGHT AND WATER WORKS.

A rather interesting departure has been made at St. Lazarus, near Posen, Germany. The town has some 3000 inhabitants, and the novelty consists in the combination of electric and water works with excellent results. Having discovered by means of boring operations that there was plenty of water in the sub-soil, the local authority thought fit to ask for tenders for combined works of the nature indicated, the result being that the Helios Company, of Cologne-Ehrenfeld, were entrusted with the contract. The installation, as described recently by Mr. Luhn, of Berlin, to the Electrotechnical Society of Cologne, comprises four sections—the boiler house, engine room, pumping shaft and accumulator room. The boiler house contains two Cornish boilers fitted with Galloway tubes and working at 90 lbs. pressure. One boiler is sufficient for the operation of the electrical and pumping plant, the other being kept as reserve. Space is available for the accommodation of a third boiler, which is to be put down this spring. A heater is provided for heating the feed water, which is supplied to the boilers by a Worthington pump. Near the boiler house is situated the engine room, in the corner of which is the pumping shaft, 20 feet deep and 17 feet in diameter. Two pumps are arranged at the bottom of this shaft. One is a compound steam pump, while the other is driven by an electric motor by means of toothed gearing. The engine room contains a 50 horse power steam engine running at 190 revolutions, and driving a dynamo by belt. Two air compressors operated by electricity are arranged on each side of the pumping shaft, the object of these being to increase the pressure of the air contained in two reservoirs. The accumulator room contains a battery of 136 cells capable of

supplying 200 16-c.p. lamps for seven hours. A feeder is carried from the generating station to the distributing centre, where the mains are laid on the three-wire system for private consumers, whilst a separate circuit is provided for the street arc lamps. All the conductors are carried overhead on porcelain insulators fixed to wooden posts 26 feet high.

The operation of the station is as follows:—During the day when the consumption of water is comparatively great, the battery is charged and the demand for water is met by the steam pump. When the charging of the battery has been accomplished, and in case in the morning before firing up a greater demand for water should arise, the work is carried on by the electric pump with the assistance of the battery. At twilight the current is supplied by the dynamo, and at 11 p.m., according as the street arc lamps are switched off, the machinery is shut down and the battery takes over the supply. In the case of a fire breaking out in the town the electric pump and one of the compressors are brought into use, this being regarded as of great importance. The automatic arrangements adopted throughout the works have reduced the number of attendants, only one engineer and one boiler attendant being required. The disposition of the station has rendered it possible to supply electrical energy at the rate of 3¼ per unit. Another installation on the same plan has been carried out at the neighboring town of Wilda.

## PERSONAL.

Mr. Henry Carswell, who for the past thirty years has held the position of Treasurer of the town of Oshawa, Ont., died on the 20th of March.

Mr. Wm. Murdock, C.E., has been appointed to the new office of City Engineer and Superintendent of Sewerage and Water Supply of St. John, N. B. The separate offices of City Engineer and of Superintendent of Sewerage and Water Supply, formerly held by Mr. Hurd Peter and the late Gilbert Murdock respectively, have been abolished.

One feature about the house drainage in Berlin, rendered necessary no doubt by the frost, is that no disconnecting trap exists between the sewer and the house drain, a flap valve having all the responsibility thrown on it of excluding sewer air. The soil pipes, therefore, act probably as exceedingly good sewer ventilators. The soil pipe is hardly ever outside the house, and there is no through ventilation except from the sewer.

The City Engineer of Toronto estimates the cost of laying brick pavements as follows: "For a brick pavement on a four-foot concrete foundation, \$2 per square yard; for a brick pavement on a foundation of building brick laid flat, \$1.80 per square yard; for a brick pavement on a broken stone foundation, properly rolled, \$1.75; for a brick pavement on a gravel foundation, properly rolled, \$1.65. These figures are based on the prices that have been hitherto paid for bricks.

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(LIMITED)**

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WM. H. LAW - Manager and Engineer.

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**RAILWAY AND HIGHWAY  
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Viaducts, Piers, Roofs, Turntables, Girders  
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CAPACITY: 5,000 TONS PER ANNUM.

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3" to 36"**

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LONDON PORTLAND CEMENT

GUARANTEED GENUINE.

Paving and Scoria Bricks for Stables,  
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Large quantities on hand and to arrive. We handle  
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31 Wellington Street, - MONTREAL,

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THE "GRAHTRYX" SMOKE TEST AND  
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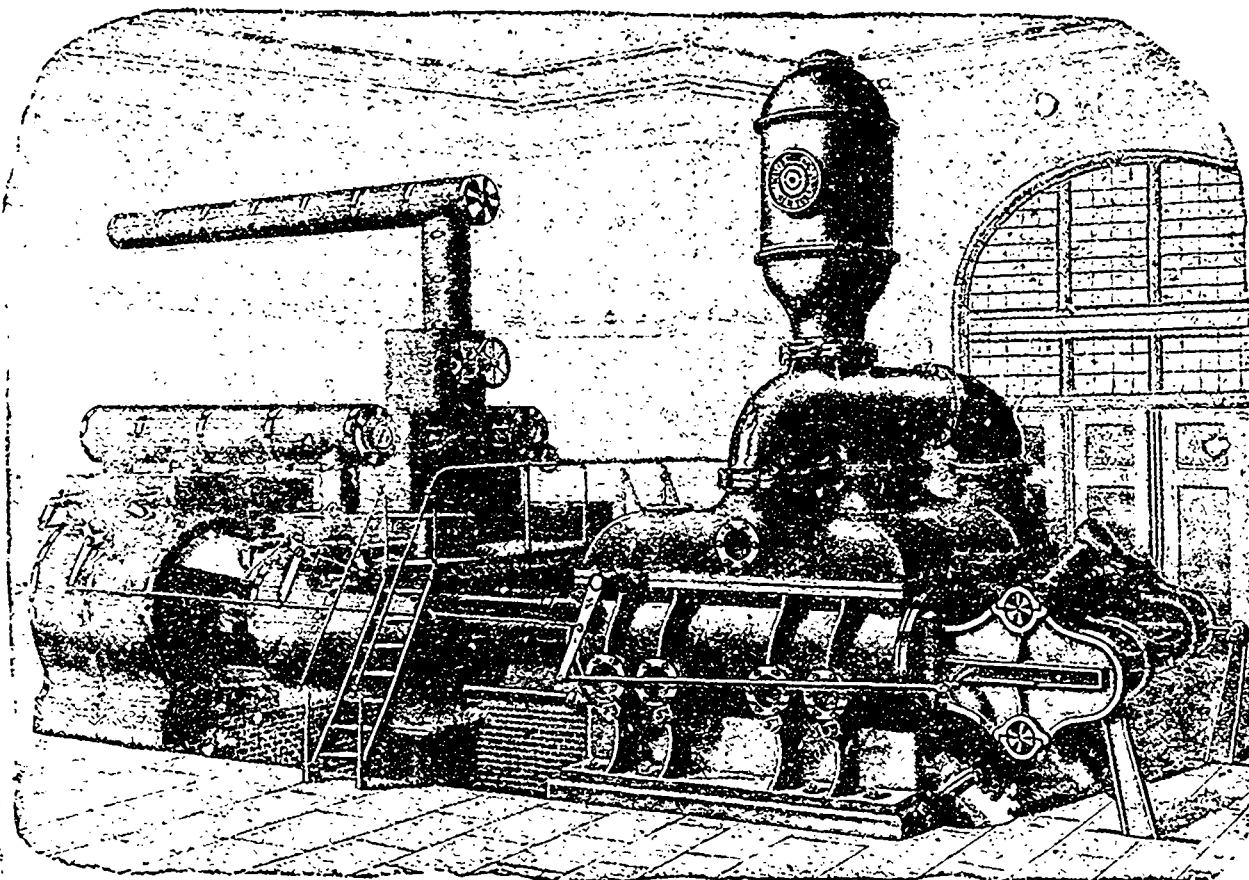
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**Famous Worthington Pumps**



Prices of Building Materials.

Toronto. Montreal.

Toronto. Montreal.

CONDITION OF THE MARKET.

TORONTO: The reports of proposed building operations from the different cities and towns indicate that the season of 1895 is opening with a satisfactory outlook, and the volume of trade will in all probability be in excess of last year. Prices of building materials are likely to remain firm. In hardware, trade continues to improve, and a number of carload lots have been shipped. Cut and wire nails are moving freely. Cement and firebrick are somewhat quiet, and prices remain unchanged. Lead and iron pipe and galvanized iron are moving freely and some large orders are reported. Considerable plate glass is being sent out.

MONTREAL: Orders are being placed for spring trade, which has a tendency to keep prices firm. A moderate demand is reported for cement, and some enquiries have been made for forward importations. Firebricks are quiet. The heavy iron and metal market is dull, with no changes to note. Glass is steady and quotations remain at \$1.15 to \$1.20 for first break, and \$1.25 to \$1.30 for second.

LUMBER.

CAR OR CARGO LOTS.

Toronto. Montreal.

Table with 4 columns: Description, Toronto Price, Montreal Price, and another Montreal Price. Includes items like 1 1/2 to 2 clear picks, Am ins., 1 1/2 to 2 three uppers, Am ins., etc.

YARD QUOTATIONS.

Table with 4 columns: Description, Toronto Price, Montreal Price, and another Montreal Price. Includes items like Mill cull boards and scantling, Shipping cull boards, Hemlock scantling and joist, etc.

B. M.

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SAND.

Table with 4 columns: Description, Toronto Price, Montreal Price, and another Montreal Price. Includes item: Per Load of 1 1/2 Cubic Yards.

STONE.

Table with 4 columns: Description, Toronto Price, Montreal Price, and another Montreal Price. Includes items like Common Rubble, per toise, delivered, Large flat Rubble, per toise, delivered, etc.

Table with 4 columns: Description, Toronto Price, Montreal Price, and another Montreal Price. Includes items like Madoc dimension floating, f. o. b. Toronto, per cubic ft., Ohio Freestone, No. 1 Blue Promiscuous, f. o. b., etc.

SLATE.

Table with 4 columns: Description, Toronto Price, Montreal Price, and another Montreal Price. Includes items like Roofing (per square), red, purple, untinting green, black, Terra Cotta Tile, per sq., Ornamental Black Slate Roofing, etc.

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CEMENT, LIME, etc.

Table with 4 columns: Description, Toronto Price, Montreal Price, and another Montreal Price. Includes items like Cement, Portland, per bbl., Gernar, Loadon, Newcastle, etc.

Table with 4 columns: Description, Toronto Price, Montreal Price, and another Montreal Price. Includes items like Cement, Belgian, per bbl., Canadian, Roman, Parian, Superfine, Thorold, Queenston, Napanee, Hull, Keene's Coarse "Whites", Calcined plaster, per barrel, Fire Bricks, Newcastle, per M, Scotch, Lime, Per Barrel, Grey, White, Plaster, Calcined, N. B., N. S., Hair, Plasterers', per bag, etc.

HARDWARE.

Table with 4 columns: Description, Toronto Price, Montreal Price, and another Montreal Price. Includes items like Cut nails, 5 d & 6 d, per keg, Steel, CUT NAILS, FENCE AND CUT SPIKES, 40d, hot cut, per 10 lbs, 30d, 20d, 16d and 12d, hot cut, per 100 lbs, etc.

PINK BLUED NAILS.

Table with 4 columns: Description, Toronto Price, Montreal Price, and another Montreal Price. Includes items like 3d, per 100 lbs., 2d, etc.

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Table with 4 columns: Description, Toronto Price, Montreal Price, and another Montreal Price. Includes items like 12d to 30d, per 100 lbs., 10d, 8d and 9d, 6d and 7d, 4d to 5d, 3d, etc.

FINISHING NAILS.

Table with 4 columns: Description, Toronto Price, Montreal Price, and another Montreal Price. Includes items like 3 inch, per 100 lbs., 2 1/2 to 2 3/4, 2 to 2 1/2, 1 1/2 to 1 3/4, 1, etc.

SLATING NAILS.

Table with 4 columns: Description, Toronto Price, Montreal Price, and another Montreal Price. Includes items like 5d, per 100 lbs., 4d, 3d, 2d, etc.

COMMON BARREL NAILS.

Table with 4 columns: Description, Toronto Price, Montreal Price, and another Montreal Price. Includes items like 1 inch, per 100 lbs., 3/4, 1/2, etc.

CLINCH NAILS.

Table with 4 columns: Description, Toronto Price, Montreal Price, and another Montreal Price. Includes items like 1/2 and 3/4 inch, per 100 lbs., 2 and 2 1/4, 1 1/2 and 1 3/4, 1, etc.

SHARP AND FLAT PRESSED NAILS.

Table with 4 columns: Description, Toronto Price, Montreal Price, and another Montreal Price. Includes items like 3 inch, per 100 lbs., 2 1/2 and 2 3/4, 2 and 2 1/4, 1 1/2 and 1 3/4, 1, etc.

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Table with 4 columns: Description, Toronto Price, Montreal Price, and another Montreal Price. Includes items like Adam's-Mar's Best and Queen's Head, 16 to 24 gauge, per lb., 26 gauge, 28, Gordon Crown, 16 to 24 gauge, per lb., 26 gauge, 28, Note.-Cheaper grades about 1/2 c. per lb. less.

Structural Iron:

Table with 4 columns: Description, Toronto Price, Montreal Price, and another Montreal Price. Includes items like Steel Beams, per 100 lbs., channels, angles, tees, pites, Sheared steel bridge plate, etc.