

CANADIAN CONTRACT RECORD

A WEEKLY JOURNAL OF THE PUBLIC WORKS AND MUNICIPAL PROGRESS

EVERY WEDNESDAY

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.

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THE CANADIAN CONTRACT RECORD, PUBLISHED EVERY WEDNESDAY

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Subscribers who may change their address should give prompt notice of same. In doing so, give both old and new address. Notify the publishers of any irregularity in delivery of paper.

TENDERS FOR 15,000 TO 20,000 BARRELS OF CEMENT.

Sealed tenders, addressed to the Chairman of the Committee on Works, for the supply of from 15,000 to 20,000 barrels of cement, will be received at the office of the undersigned up to 3:30 p.m. on TUESDAY, FEBRUARY 17TH, 1903. Specifications and forms of tender may be obtained at the office of H. N. Ruttan, City Engineer, Winnipeg, Manitoba, Canada.

Each tender must be accompanied by an accepted cheque or cash deposit for the sum called for in the form of tender supplied, which will be subject to forfeiture in case of failure on the part of the contractor to enter into a written contract if called upon to do so.

The city reserves the right to reject any or all tenders or to accept any bid which appears advantageous to the City of Winnipeg.

C. J. BROWN, City Clerk.
City Clerk's Office,
Winnipeg, January 9, 1903.

City of Winnipeg

TENDERS FOR PUMPING ENGINE.

Sealed tenders, addressed to the Chairman of the Fire, Water and Light Committee, for the supply and delivery in Winnipeg of one pumping engine, having a pumping capacity of 5,000 imperial gallons per day of 24 hours, will be received at the office of the undersigned up to 8:30 p. m. on MONDAY, FEBRUARY 2, 1903.

Specifications may be seen at the office of H. N. Ruttan, City Engineer, from whom forms of tender and full information may be obtained.

Each tender must be accompanied by an accepted cheque or cash deposit for the sum called for in the form of tender supplied, which will be subject to forfeiture in case of failure to enter into a written contract if called upon to do so.

The city reserves the right to reject any or all tenders or to accept any bid which appears advantageous to the City of Winnipeg.

C. J. BROWN, City Clerk.
City Clerk's Office,
Winnipeg, Canada, January 8, 1903

Town of Lindsay

Sealed tenders will be received at the Town Clerk's office up to noon on TUESDAY, JANUARY 20TH, 1903, for the construction of about 45,000 square feet of cement sidewalks in the Town of Lindsay.

Specifications may be seen and form of tender obtained at the office of the Town Clerk.

A marked cheque for five per cent. of the tendered price must accompany each tender, and will be returned when contract is awarded.

The lowest or any tender not necessarily accepted.

P. KNOWLSON,
Town Clerk.

Notice to Contractors.

Sealed tenders, marked "Tender for House of Refuge," will be received by the undersigned up to noon of MONDAY, 26TH DAY OF JANUARY INST., for the erection of a

HOUSE OF REFUGE

for the County of Grey, at the Village of Markdale, according to plans and specifications to be seen at the office of John Rutherford, County Clerk, No. 132 Front Street, Owen Sound, up to 6 p. m. of Saturday, 24th January. This building is to be steam-heated. The lowest or any tender not necessarily accepted. Tenders may be for the whole or for the different trades. Security may be required for the due fulfilment of the contract.

JNO. RUTHERFORD,
County Clerk, County of Grey.
Owen Sound, Jan. 7th, 1903.

CONTRACTS OPEN.

EAST TORONTO, ONT.—It is understood that Mr. Garland will erect a new store building.

CHARLOTTETOWN, P. E. I.—Harold Jenkins has purchased a lot on which he will build in the spring.

MINETT, ONT.—The ratepayers of School Section No. 6, Medora, are taking steps to build a new school.

SHELBURNE, ONT.—It is the intention of George Hill to erect a stone block on Main street next summer.

PARIS, ONT.—Arrangements are being made looking to the erection of a public library building in the spring.

BRUSSELS, ONT.—John Ross is taking tenders up to 24th inst. for erection of frame cottage on Peninsula Lake.

IROQUOIS, ONT.—The council have passed a by-law to issue \$5,749 of debentures for construction of granolithic sidewalks.

TRURO, N.S.—It is understood that T.G. McMullen, of this place, has in view the erection of large pulp and paper mills at Union.

RIMOUSKI, QUE.—A deputation from this place will ask the Dominion Government to extend the wharf to deeper water.

DUNDAS, ONT.—The Bank of Commerce has commenced the erection of a new bank building, to cost \$6,500.

NEW CARLISLE, QUE.—A. A. Caldwell intends building an addition to his hotel, to be 22x104 feet and to contain 32 bed-rooms.

DAUPHIN, MAN.—The Government propose to undertake the draining of certain land between Lake Dauphin and Lake Winnipegosis.

MONCTON, N.B.—Tenders are being taken this week at the Intercolonial Railway office on construction of coal handling plant here.

CARLETON PLACE, ONT.—The town council has decided to postpone the vote on the by-law to provide funds for building a new school.

PORT ARTHUR, ONT.—The Canadian Pacific Railway Co. have purchased the old Graham & Horn mill site and will likely build thereon.

PETERBOROUGH, ONT.—R. H. Bradburn has had plans prepared for a new opera house to cost about \$30,000 and to have a seating capacity for 1,600.

AYLMER, ONT.—Owen McKay, C. E., and a staff of surveyors are again laying out a route for the extension of the Lake Erie & Detroit River Railway to Buffalo.

ST. HYACINTHE, QUE.—On the 10th inst. the ratepayers voted in favor of a by-law to assist the Ames-Holden Co., of Montreal, to establish a shoe factory here.

VALLEYFIELD, QUE.—Plans are being prepared at Ottawa for the new post office building to be erected here on property recently purchased from Mr. Loy, M.P.

MANITOWANING, ONT.—Good progress is being made with the survey for the Manitoulin & North Shore Railroad. A bridge will be constructed over Owen Channel.

BRANTFORD, ONT.—A.W. Moore, F. K. Moore and H. H. Powell, of Woodstock, have purchased the gas works in this city and will make extensive improvements.

LONDON, ONT.—The Separate School Board have decided to erect a new school on the old St. Mary's property on Hill street. Particulars from Rev. Father Egan.

OWEN SOUND, ONT.—G. B. Ryan has purchased the stores occupied by G. B. Ryan & Co. and Charles Law. It is his intention to remodel the buildings and build a large addition.

HARTNEY, MAN.—F. Chapin is preparing to erect a large implement warehouse.—The James Innes Co. will erect a roller mill at Deloraine and enlarge their mill at this place.

BUCKINGHAM, QUE.—At the annual congregational meeting of St. Andrew's church held last week, it was decided to erect a new manse and a Sabbath school, at a cost of \$6,000.

FORT WILLIAM, ONT.—A by-law to raise \$40,000 to extend the electric light plant was carried last week.—The Ogilvie Flour Mill Co. will proceed at once to build a mill and elevator here.

GALT, ONT.—The Goldie & McCulloch Company have had plans prepared for new works to be erected about a mile from their present location, for which purpose they have secured 26 acres of land.

SACKVILLE, N. B.—Mr. Burke, architect, of Toronto, was here last week to consult with the authorities of the Ladies College regarding plans for a proposed extension of the buildings to cost \$30,000.

SYDNEY, N.S.—The ratepayers have finally given exemption from taxation to the Dominion Chemical Co., which proposes establishing a plant here for the distilling of tar. It is agreed to expend \$60,000 in plant.

ST. ANDREWS, N. B.—The Andraleo Club have purchased property and had plans prepared for a hall to be built on corner of King street and Church Lane. Rev. O. Flaherty is honorary president of the club.

LEVIS, QUE.—Tenders will be received by J. Eugene Foy, town clerk, up to January 24th for construction of waterworks and sewerage systems, from plans prepared by J. O. A. Laforest, civil engineer, of Montreal.

BRAMPTON, ONT.—James Jackson, of this town, and W. Lyons, of Terra Cotta, are obtaining information regarding heating systems with a view to making recommendations for heating the county buildings of Peel.

TORONTO JUNCTION, ONT.—Steps have been taken towards the establishment of the proposed pack packing industry.—It is reported that plans will be prepared immediately for a large addition to the C.P.R. car shops here.

ST. MARY'S, ONT.—The by-law to assist the St. Mary's Portland Cement Company to establish cement works having been defeated by the ratepayers of the township of Blanshard, it is probable that a similar by-law will be placed before the ratepayers of this town.

SHERBROOKE, QUE.—J. W. Gregoire, architect, of this city, has been commissioned by the Superior of the Notre Dame Convent to complete the work on the convent. Mr. Gregoire has been charged with the erection of the new church and vestry at Wotton.

COLLINGWOOD, ONT.—The Ontario Fish Co., organized by Capt. W. H. Clark, D. Malcolm and others, purpose erecting large cold storage buildings in this town, the site for which has not been selected.—Dr. Arthur intends erecting a handsome residence on the corner of Pine and Third streets.

PORT HOPE, ONT.—At the annual meeting of the directors of Trinity College School, held last week, a committee was appointed to report upon the ways and means for the erection of a new building for a junior school. The committee includes Mr. E. B. Osler, M.P., and Lieut.-Col. Pellatt, of Toronto.

REGINA, N. W. T.—The Regina & Hudson Bay Railway Co. proposes to construct a railway from a point on the International boundary to Fort Churchill, on Hudson Bay, with a branch line to a point north of Big Quill Lake.—The town council propose to take steps to install waterworks and electric light systems.

DIGBY, N. S.—H. T. Warne, lumber

dealer, has decided to erect on Water street a five-storey building, 40x80 feet, the first floor for stores, second for offices, and the other three for tenements. Two elevators will be put in.—Samuel Gidney, of Mink Cove, has purchased the Westport & Digby Telephone Company's line and will make improvements thereto.

ST. JOHN, N. B.—G. E. Fairweather, architect, has completed the plans for the new public library building.—The St. John Ice Company will next summer build a modern ice house at a cost of \$10,000.—It is expected that sufficient funds will have been secured by spring to enable work to be commenced on the erection of the proposed Y.M.C.A. building.

VANCOUVER, B.C.—Local capitalists purpose erecting another shingle mill on the borders between Hastings and Vancouver.—Surveys have been made for the construction of the Vancouver, Westminster & Yukon Railway between this city and Westminster.—It is stated that the Pacific Coast Lumber Co. have decided to build a large addition to their saw and shingle mill, also a large shipping shed.

QUEBEC, QUE.—T. E. Wing and M. E. Evans, civil engineers, are about to make a report on the construction of the Quebec and Lake Huron Railway, of which J. G. Cannon, of the Fourth National Bank, New York, is one of the promoters. The line will be 465 miles in length.—William Price, of Price Bros. & Co., has subscribed for \$100,000 of stock in the Trans-Canada Railway.—Barrett & Co. have decided to construct a pulp mill.—G. Matte has been granted a permit for a brick building to cost \$2,500.

WINNIPEG, MAN.—It is rumored that plans are being prepared by Darling & Pearson, architects, of Toronto, for another bank building to be erected in this city, to cost upwards of \$200,000.—Samuel Spence purposes remodelling the Macdonald block and fitting it up as a hotel.—C. J. Brown, city clerk, will receive tenders up to 8 30 p.m. on February 2nd for supply of a pumping engine of a capacity of 5,000,000 imperial gallons per day of 24 hours.—The city is asking for tenders up to February 3rd for supply of from 1,000 to 1,500 cords of cedar paving wood and until February 17th for supply of from 15,000 to 20,000 barrels of cement. Specifications from H. N. Ruttan, city engineer.

OTTAWA, ONT.—F. Gelinas, secretary Department of Public Works, is asking for tenders up to January 30th for construction of wharf at Ingomish South Bay, Victoria County, N. S. Plans at above department and at office of E. G. Millidge, Antigonish, and C. E. W. Dodwell, Halifax.—E. J. Walsh and party have laid out more than half the route of the proposed Ottawa, Brockville & St. Lawrence Railway, which will be fifty-six miles long. George E. Kidd, solicitor for the company, states that the Rideau river will be crossed about half a mile below Burrill's Rapids.—The government has agreed to dispose of 500,000 acres of land in Southern Alberta, near Lethbridge, to the North-West Irrigation Co. at \$3 per acre, the company agreeing to undertake an extensive system of irrigation.—The following building permits were granted last week: Bank of British North America, alterations to building, 25 Spark street, cost \$5,000; Fred Heney, alterations to Windsor Hotel, cost \$3,000; Joshua Clothier, brick veneered dwelling, Bay street, cost \$2,000.—The Shepard & Morse Lumber Co., who have purchased the Mason saw mill, will remodel and extend the plant.

MONTREAL, QUE.—It seems probable that a new morgue will be erected at the east end of the Champ de Mars in

the near future, the city to give the land and the Government to erect the building.—The Canadian Pacific Railway Co. continues to acquire property in the east end for the improvements and extensions contemplated to Place Viger station and the enlargement of the Dalhousie yards.—L. O. David, city clerk, desires tenders by noon on Thursday, 15th inst., for supply and installation of one or more stone crushers in the city quarry at Outremont, crushers to be of a capacity of 30 tons per hour.—W. Penniston and other members of the Montreal Hunt Club have decided to construct a new race track, the plans for which are being prepared by Thomas Sirahan.—The council of St. Cunegonde, a suburb of Montreal, have decided to build a new fire and police station, at a cost of \$12,300. Architects are invited to submit competitive plans.—The Civic Library Committee have decided to erect the new public library building on the old St. Lawrence Market site.—The Imperial Bank have purchased the property at the southwest corner of St. James and McGill streets, and have instructed Taylor & Gordon, architects, to prepare plans for the reconstruction of the building on an extensive scale. The banking offices will be on the ground floor, and the upper floors will be arranged for offices and other purposes. The building throughout will be thoroughly modern in all its appointments.—Finley & Spence, architects, have completed plans for fitting up the new premises in the Guardian Building for the Dominion Bank. The floor, which is to be of mosaic, will cover 4000 square feet, while the counter will extend along the side and end of the banking room and will be of white marble. There will be four vaults.—Plans have been completed for the permanent freight sheds, tracks and overhead approaches which are to be constructed on the harbor wharves. The sheds will be two storeys in height and from 800 to 1000 feet in length.

TORONTO, ONT.—It is understood that Darling & Pearson, architects, have prepared plans for a large and costly building to be erected on the old Upper Canada College grounds, King street west, by the Canadian General Electric Company.—Principal Scott, of the Normal School, last week interviewed Hon. G. W. Ross, Premier of Ontario, and urged the necessity of a new Normal School building.—It has been suggested that the property opposite the City Hall on the south side of Queen street be purchased by the Dominion Government as a site for a new post office building.—The Imperial Paper Co., Limited, recently incorporated, propose to acquire the Taylor paper mills on the Don River and to make extensive alterations to the property. Plans have been prepared for new buildings for the installation of bag-making machines.—J. Francis Brown, architect, is this week taking tenders on house on Eglinton Avenue.—The Minister of Education has stated that a new Normal School will be erected at some point between Toronto and Sault Ste. Marie.—Frederic Nicholls, general manager of

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MUNICIPAL
DEBENTURES

the Canada Foundry Co., makes the arrangement that plans are being prepared for a large extension to the works of the company in the north-west part of the city, for which purpose an additional 100 acres of land have been purchased.—It has been definitely decided to erect a new Catholic church to take the place of St. Patrick's church on Wellington street. Rev. Father Barrett is in charge of the parish.—York Township Council will invite tenders for a bridge at Buchanan's Hill.—Building permits have been granted as follows: Acme Loan & Savings Co., three pair two-storey and attic semi-detached brick dwellings, 191-201 Shaw street, cost \$10,800; Metropolitan Bank, alterations to front of bank, corner of Bathurst and College streets, cost \$1,500; William Halls, two-storey rough cast dwelling, brick foundation, Boustead avenue, near Dundas street, cost \$1,400; D. S. Schwalm, pair semi-detached two-storey and attic brick dwellings, 176-178 Ossington avenue, cost \$4,000; W.A. Clark, two-storey and attic brick dwelling, Dupont street, near Walmer road, cost \$2,800; York County Loan & Savings Co., four detached brick and stone dwellings, Roncesvalles avenue, cost \$9,000.

FIRES.

Electric light plant at Tweed, Ont., owned by Steinhoff & Cordon, of Wallaceburg, totally destroyed; loss \$4,000, no insurance.—Roller mills of John Schoenhalz at Port Albert, Ont.; loss \$15,000.—Departmental store of Stanley Mills & Co., Hamilton, completely gutted; loss, \$50,000.—Hotel at Ilderton, Ont., owned by Robert Paisley; loss \$3,500, partly covered by insurance.—Shilson's general store at Snowflake, Man.—Works of the McClary Manufacturing Co., London, Ont., damaged to the extent of \$40,000. The heavy machinery on the ground floor was saved.—Residence of Sir Richard Cartwright, O'Connor street, Ottawa, damaged to extent of \$2,000.—Shannon's saw mill north of Prince Albert, N. W. T.; loss \$10,000.—Mount Royal Club building, Montreal, damaged to extent of \$15,000.

CONTRACTS AWARDED.

SAND POINT, ONT.—The contract for building hoop and stave factory here has been let to V. A. Barnett, of Arnprior.

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Head Office, Owen Sound, Ont

LEVIS, QUE.—Thomas Power, this place, has secured the contract for building a dam for Barrett & Co., estimated cost \$15,000.

VICTORIA, B. C.—George Snider, this city, is the successful tenderer for building two-storey brick school house at Esquimalt.

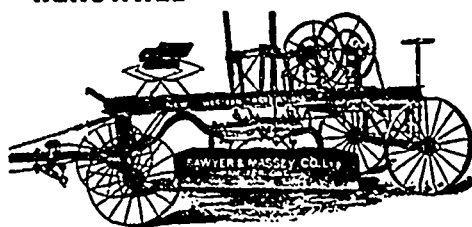
OTTAWA, ONT.—Thos. McLaughlin has been awarded the contract for stone and foundation work for bridge across the Ottawa river, at Bout de Pisle for the Chateauguay Northern Railway. There will be fourteen piers and four abutments.

HAMILTON, ONT.—Charles Mills, architect, has accepted the following tenders for store building for Stanley Mills & Co.: Carpenter work, Hugh

McKellar; brick and terra cotta, Toronto Pressed Brick & Terra Cotta Co.; iron work and tinsmithing, R. G. Olmstead; steel work, Hamilton Bridge Work Co. Building will be four storeys, with front of Connecticut brown stone, pressed brick and terra cotta.

MONTREAL, QUE.—The C. P. R. have let the contract for another erecting shop to Lessard & Harris.

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MUNICIPAL DEBENTURES BOUGHT

EMILIUS JARVIS & CO. (Toronto Stock Exchange) 19-21 King St. West, TORONTO, Ont.

--Coulson, Quinlan & Robertson, of this city, have been awarded the contract for the lengthening of locks No. 1 and 2 of the Lachine canal. The new locks will be 270 feet long, 45 feet wide, and 14 feet depth of water on the sills.

REAL ESTATE TRANSFERS.

The following transfers of vacant property in Toronto have recently been recorded:

Delaware ave., e.s., n. of No. 117—Georgina C. Allen to Joseph T. V. May, 25x149, being part lot 11, block O, plan 329, sale price \$500.

St. Claren's ave., w.s., n. of 398—Jos. Bailey to Isabella Williams, 20x140, being part lot 16, plan 588, sale price \$20.

Scarth Road, e.s., s. of No. 21—Henry Winnett et al to Isabella C. Mancher, 46.6x244, being lot 20, plan 150E, sale price \$1.

Birton Ave., s.s., e. of Brunswick—Isabella Ewing to John G. Spears, 50x150, being lot 96, plan 608, sale price \$1000.

Barton Ave, s.s.—John G. Spears to Samuel F. Bistedo, same as preceding parcel; sale price \$1,150.

Wells street, n.s., e. of Bathurst—Sarah L. Cattanach to Charles R. S. Dinick, 30x140, being part lot 12, block A, plan 324, sale price \$563.

Bathurst street, w.s., n. of No. 700—Thomas A. Cousins to Edward J. Cousins, 40x125, being part lot 49, plan 93, sale price \$500.

Dresden ave., n.s.—Francis H. Banks to Wm Charlton, 95x120, being lot 42 and part 43, plan 178E, sale price \$35.

Delaware ave., w.s., n. of No. 216—George T. Graham to Atha Walker, 30x137, being lot 44, block T, plan 329, sale price \$1.

Wells street, n.s., No. 2—Sarah L. Cattanach to Charles R. S. Dinick, 30x140, price \$563.

Salem ave., w. s. — Peter MacBride to Edward T. Danes-Longworth, 50x38, price \$10.

Brunswick ave., w.s.—R. N. Gooch to Sarah Jane Graydon, 60x128, lot 189, part 188, price \$1800.

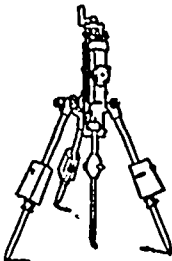
Delaware ave., w.s., No 44—George T. Graham to Atha Walker, 30x127, price \$1.

Gladstone ave., w.s. — Mary Jane Baumhard to Fred R. Baumhard, 51x85, price \$1.

Dufferin street, e.s., Nos. 21, 22 and 23, corner Van Horne street—Martha E. Kanady to Land Security Company, 138x35, price \$1.

Havelock street, w.s., n. of No. 226. — John Stark to Lucinda Roberts, 66.8x142, being lot 168 and part 169, plan 405, sale price \$233.

Queen street east, s.s., e. of No. 1433—Jessie W. Fitzgerald to Hannah M. Lambert, 301.6x577, sale price \$1,000.



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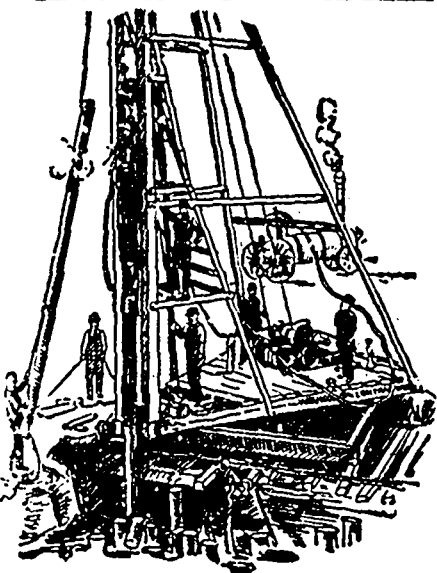
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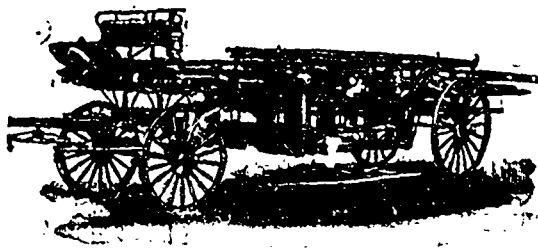
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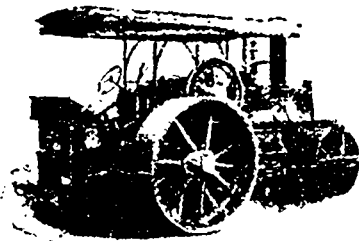
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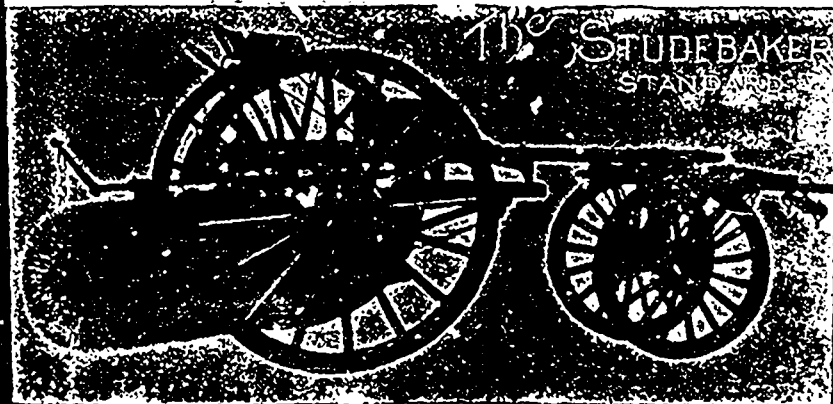
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ENGINEERS CLUB OF TORONTO.

The fourth annual meeting of the Engineer's Club of Toronto, was held in the club rooms, 96 King street west, on January 7th, and was largely attended. Major Henry A. Gray presided.

A number of reports were presented showing that the club is in a most flourishing condition. During the year 1902 25 new members were elected, and the regular Monday luncheons proved not only a social but a professional success. The financial balance for the year is \$318 68. The reports were entirely satisfactory.

The officers for the ensuing year were then elected as follows :

President, Mr. C. H. Rust ; First Vice-President, Mr. C. M. Caniff; Second Vice-President, Capt. Killaly Gamble ; Secretary, Mr. Willis Chipman (re-elected) ; Treasurer, Mr. H. F. Duck (re-elected) ; Directors—Messrs. R. A. L. Gray, R. F. Tate, and W. H. Fatton.

After adjournment of the business session refreshments were served.

The Trail Hardware & Plumbing Co., Trail, B. C., are advertising their business for sale.

A. Joly & Co., painters, etc., St. Louis du Mile End, Que., have registered their business.

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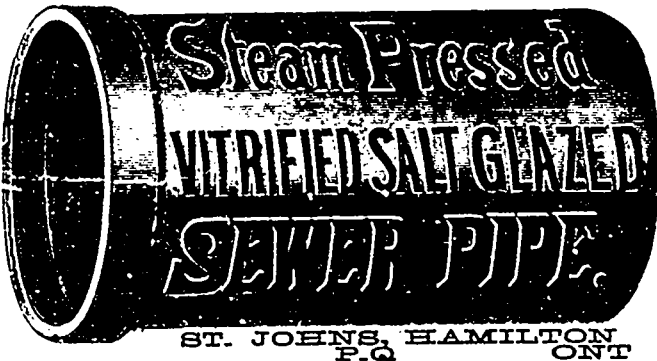
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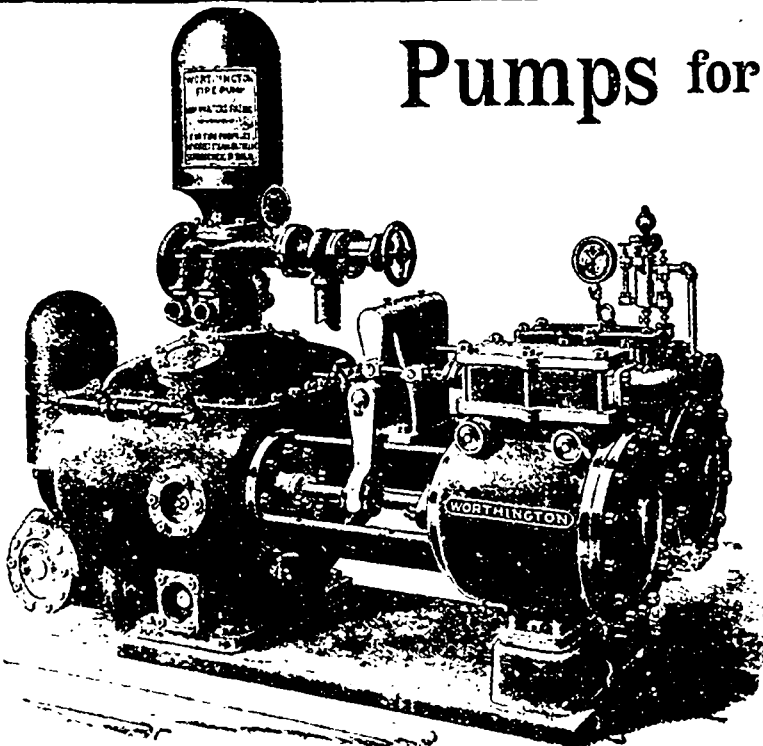
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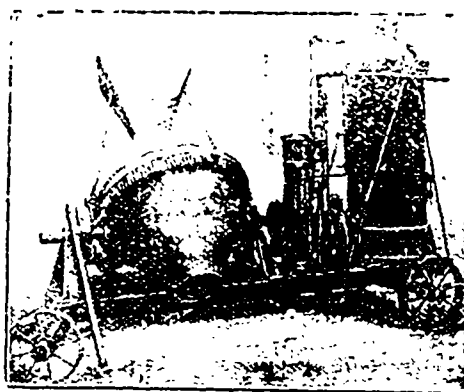
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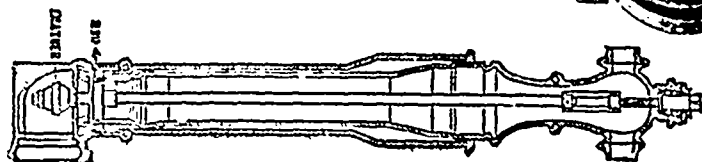
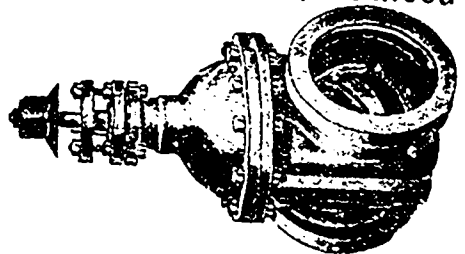
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MUNICIPAL DEPARTMENT

METHODS OF SEWAGE DISPOSAL.

Professor John Amyot, of the Provincial Biological Department, delivered a lecture on "Sewage Disposal" at the Canadian Institute, Toronto, on Saturday evening last. At the outset he stated, that the time had gone by when it was believed that sewage disposal was merely a matter of filtration. The operations involved were mechanical, chemical and bacteriological, and the last named was the most important. The experimental sewage plant at Berlin, Ont., was described at some length, also that at Brockton, Mass., and the methods adopted and results attained at each of these plants were compared with those of Berlin, Germany, and London, Ont.

In describing the system of broad irrigation, Dr. Amyot said that too often the quality of the earth utilized in such plants was not given due consideration. All soils were not equally adapted to the treatment of sewage, clay being, of course, much less efficient than sand or loam. In the process of broad irrigation, the purification is effected by bacteria, which work through thru the agency of spontaneously generated ferments, the operation being analogous to that which goes on in the human stomach. But carrying this analogy still further, the products of such bacteriological action must be carried off freely, or the bacteria would be bathed in their own poisons and annihilated. It has been found that the bacteria in the sand beds used in broad irrigation digest freely and rapidly, then cease action. But if the products be removed, they recuperate their powers and the process is renewed. Hence the necessity of effective filtration of such beds.

Coming to the question of how much land is necessary to treat a given amount of sewage, the professor gave some interesting statistics tabulated from actual results in London, Brockton, Mass., and Berlin, Ont. The plant now in operation at the London Asylum treats effectively 75,000 gallons per day, and covers an area of seven acres. The land is divided into twelve strips, 12 to 15 feet wide, and these strips are dosed alternately, so that no one of them is used more than once in four or five days. The farmers whose land lies adjacent to and below the plant state that their crops are better than before it was in operation.

In Brockton, Mass., the sand beds have been in constant use for fifteen years, and the sand is to-day in better condition than when the sewage was first turned on it. Speaking of the effluent of this particular plant, Dr. Amyot stated that it was absolutely clear, non-putrescent, non-gaseous and odorless, and whilst he could not honestly recommend it as a drinking water, it was a fact that cyclists and others passing a certain spring in Clinton, Mass., were in the habit of quenching

their thirst at a certain spring that had obtained quite a local reputation for purity, and this spring was but a part of the Brockton effluent.

The professor next dealt with the septic tank, explaining very clearly its construction and action. He believed, however, that this was an incomplete method. True, a septic tank would remove 50 per cent. of the organic poisons of strong sewage in 24 hours, but it would take many weeks to get rid of the remaining 50 per cent. by the same method, if, indeed, it could ever be entirely removed by such means.

The electrolytic method was too expensive to use, except in small plants, and the contact bed system involved too much attention, and at best was incomplete, to say nothing of the beds having to be renewed every two years.

NEW STREET SNOW PLOW.

A new snow plow has been designed by Mr. George Heaman, of East London. It was recently inspected by Mr. A. O. Graydon, city engineer of London, who is sure that it will prove a complete success when tested. The new plow will be supported on a double set of runners, like a sleigh. The blade will be adjustable in height, so that on board walks it will clean off snow to within half an inch of the surface, while on smooth concrete walks the snow will be entirely removed. There are shafts attached to the plow, and a seat for the driver. There will also be an attachment for sprinkling sand on slippery walks. Mr. Heaman has applied for a patent on his plow. Mr. Graydon says the plows would be comparatively expensive, costing perhaps \$35 each, but they are so strongly constructed that they will last for twenty years.

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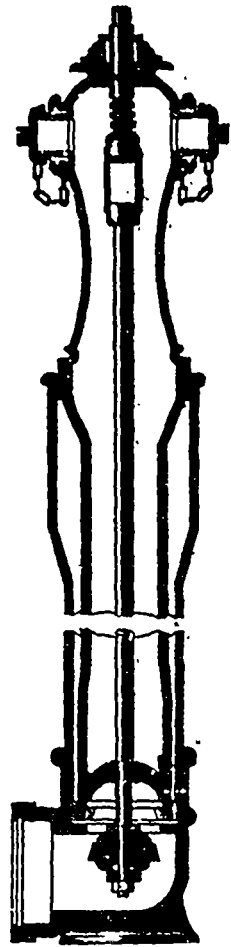
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In the "Canadian Architect and Builder."

Large index table listing various contractors and services such as Architects, Contractors' Plant and Machinery, Mantels, Grates, and Roofing Material, with their respective addresses and contact information.

Table listing prices for TORONTO, MONTREAL, and PORTLAND CEMENT, including various brands and specifications.