

CANADIAN Contract Record

*A Weekly Journal of Public Works, Tenders,
Advance Information and Municipal Progress*

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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TORONTO, MONTREAL — FEBRUARY 21, 1906 — WINNIPEG, VANCOUVER

No. 51

THE CANADIAN CONTRACT RECORD

PUBLISHED EVERY WEDNESDAY

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tectural work. To the right man can offer first-
class permanent position. Correspondence
solicited from those who can fully meet the
requirements named, no others need apply.
W. W. LA CHANCE, Architect,
P. O. Box 613, Reg. A, Sask.

City of Fredericton

Sealed bids for furnishing, delivering and
erecting the Sewage Pumping Plant, addressed
to the City of Fredericton, N.B., and endorsed
"Proposals for Furnishing, Delivering and
Erecting the Sewage Pumping Plant," will be
received at the office of the City Clerk, City Hall,
until eight o'clock p. m. of THURSDAY, THE
FIRST DAY OF MARCH, 1906. Each bid must
be accompanied by a certified bank check for
\$500. Plans and specifications may be seen at
the office of the undersigned. The city reserves
the right to reject any and all bids or to accept
any bid.

J. W. MCCREADY,
City Clerk.

TO CONTRACTORS

Tenders will be received at the office of the
undersigned until 5 p.m. FRIDAY, FEBRUARY
23RD, for Store Building on Queen St. East, for
John S. Lucas, Esq.

Lowest or any tender not necessarily accepted.

SYMONS & RAE, Architects,
15 Toronto St.

Debentures for Sale

Sealed tenders will be received by the under-
signed up till 6 o'clock p.m. THURSDAY, THE
22ND DAY OF MARCH, 1906, for Town of Ren-
frew Twenty and Thirty Year Debentures
amounting to \$4,540.10 (this amount includes
interest to end of term).

For full particulars write the undersigned.

JAS. K. ROCHESTER,
Town Clerk,
Renfrew, Ont.

CANADIAN PACIFIC RAILWAY

Tenders covering the work required in connection
with Track-Laying, Bridging and Ballasting
on the Sudbury branch between Komford and
French River Crossing (40 miles) will be received
by the undersigned up to noon on SATURDAY
MARCH 10TH, 1906.

Plans and specifications can be seen at the
office of the Division Engineer of Construction,
112-118 King Street West, Toronto.

J. W. LEONARD,
Manager of Construction.

Tenders for Steel Bridge

Tenders will be received up to FRIDAY,
MARCH 9TH, for the erection of a new Steel
Bridge over the River Speed in Guelph Township
known as "Carrhairs Bridge". Length between
abutments 70 feet, 12 foot roadway clear of
wheel guards, 10 feet above water. Contractors
to submit their own plans and specifications with
tender stating time of completion, and with a ten
per cent. deposit for satisfactory completion.

JAMES LAIDLAW,
Clerk Guelph Township,
Box 10.8, Guelph, Ont.

CITY OF BRANDON

Tenders for Cement

Sealed tenders, addressed to "The Chairman
of the Board of Works, Brandon, Man.", and
endorsed "Tender for Cement", will be re-
ceived by the undersigned until 6 o'clock p.m.
on THURSDAY, APRIL 12TH, 1906, for supply-
ing from 5,000 to 7,000 bbls. Portland cement.
Specifications and form of tender may be ob-
tained on application to W. H. Shillinglaw,
City Engineer, Brandon, Man.

The City Council does not bind itself to accept
the lowest or any tender.

GEO. F. SYKES,
Sec'y Treas.
Brandon, February 15th, 1906.

Town Engineer Wanted

The Town of Fort William, Ontario, will re-
ceive applications until 6th FEBRUARY, 1906,
for the position of Town Engineer. Applicants
will state experience, qualifications and salary
expected.

A. McNAUGHTON,
Town Clerk.

To Contractors

Tenders, addressed to the Secretary of the
Board of Public School Trustees of the Town of
Cobourg, Ont., will be received up to noon of
SATURDAY, MARCH 3RD, for the several
trades works required in the erection and com-
pletion of a Central School Building. Plans and
specifications may be seen at my office, Town
Building, or at the offices of Power & Son,
Architects, Kingston.

Lowest or any tender not necessarily accepted.

ALEX. POE, Secretary,
Board of Public School Trustees,
Cobourg, Ont.

CONTRACTS OPEN.

ROSDALE, B. C.—A new grist mill
will be built here.

HIGH RIVER, ALTA.—A new flour
mill is soon to be established here.

VONDA, SASK.—A Presbyterian
church will be erected here in the spring.

THAMESVILLE, ONT.—A brick
school house will be built at McKay's
Corners.

PRINCE ALBERT, SASK.—J. B.
Truscott will build a residence, to cost
\$2,500.

SUMMERSIDE, P. E. I.—The Pres-
byterian church is to be extensively
repaired.

PERTH, ONT.—An envelope fac-
tory of large capacity will be established
here soon.

PORT COLBORNE, ONT.—W. J.
Saurin intends building a fine house on
Clarence street.

EAST TORONTO, ONT.—An addi-
tion is to be built to Mary street school,
to cost \$16,000.

SHOAL LAKE, MAN.—A brick
vener school house is to be constructed
here in the spring.

ELM CREEK, MAN.—It is stated
that the Grand View Hotel will be
enlarged this year.

FORT WILLIAM, ONT.—The
Town Council will sell \$76,000 4½ per
cent. debentures.

SHUBENACADIE, N. S.—A new
Presbyterian manse will be built during
the coming summer.

LETHBRIDGE, ALTA.—The Hud-
son Bay Company have taken tenders
for a new store here.

FITZROY HARBOR, ONT.—The
Township Council have decided to erect
a new town hall this season.

EAST BAY, N.S.—A new wharf or
extensive repairs to the old one will soon

be undertaken; also repairs to the sluice bridge.

REDVERS, SASK.—Johnston Bros. are making plans for the enlargement of their store.

BASS RIVER, N.S.—A new manse will be built here this season by the Presbyterian congregation.

DRAYTON, ONT.—The members of the Anglican church purpose building a new church this spring.

LONDON, ONT.—The construction of a trunk sewer is recommended by the Board of Works, to cost \$35,000.

BARRIE, ONT.—J. A. Craig intends building a brick residence on John street. Thomas Kennedy is preparing the plans.

ENDERBY, B. C.—F. B. Moffat is endeavoring to arrange for the erection of a large flour mill with elevator accommodation.

McKELLAR, ONT.—Archie R. Jackson will receive tenders until March 1st for the extension of the Agricultural Hall.

MILLBROOK, ONT.—Mrs. Whyte and R. Deyell have purchased two lots on which residences are to be built next summer.

ROSTHERN, SASK.—It has been decided to raise \$5,000 to erect an addition to the school and install a system of heating.

EARLTOWN, N.S.—John W. Logan, of Truro, intends building a saw mill here for the manufacture of hardwood flooring.

EGANVILLE, ONT.—A by-law was passed here authorizing the Council to raise \$10,000 by debentures for erection of a town hall.

STRATFORD, ONT.—Knox Church is asking for plans for a Sabbath School building. Particulars may be had from W. A. Adams.

WATERFORD, ONT.—A by-law was carried here to loan \$15,000 to the Lloyd-Thomson Automatic Wire Weaving Company.

KINGSTON, ONT.—It is expected that a modern laundry will be built to replace the one destroyed by fire at Rockwood Asylum.

HINTONBURG, ONT.—The Public and Separate School Boards are preparing to meet the demand for greater accommodation.

ESQUIMALT, B. C.—It is understood that the Capital City Canning & Packing Company intend building a cannery here this year.

MOOSE JAW, SASK.—Another school is to be built to cost \$7,000.—A new Y. M. C. A. building will be erected here at a cost of \$40,000.

RAINY RIVER, ONT.—Tenders will be received by H. G. Graham until February 27th for boring an artesian well on the school property.

BATTLEFORD, SASK.—J. E. Belvaan has decided to build a large three-storey hotel on the corner of First avenue and 22nd street.

COLLINGWOOD, ONT.—T. Long & Bro. have decided to erect a large elevator, warehouse and cold storage plant on Pine and First streets.

SEAFORTH, ONT.—Extensive improvements in draining, paving, etc., are to be made on Main street from Goderich street to the G.T.R. tracks.

DRESDEN, ONT.—The ratepayers will vote on a by-law to provide \$25,000 to assist A. B. Turner, of Toronto, in building a twine factory here.

CHATHAM, ONT.—A deputation from Raleigh Township have asked Premier Whitney for assistance for the Dauphin and Pipe drainage scheme.

DAVISVILLE, ONT.—At a recent meeting of the School Board, Architect Gray was instructed to complete plans for the addition to the school here.

MIDWAY, B. C.—The Kettle Valley Railway will apply to Parliament for power to extend its railway from Midway to Hedley with branch to Penticon.

SYDNEY, N. S.—The Cape Breton Coal, Iron and Railway Company propose constructing a bridge across the Mira River, county of Cape Breton.

EDGAR, ONT.—Thomas Kennedy, architect, Barrie, will receive tenders until March 1st for a public school house, to be built of reinforced concrete.

KAMLOOPS, B. C.—Messrs. Ramsay & Philip have purchased a site, corner Victoria street and Second avenue, on which they purpose building a brick block.

PETROLIA, ONT.—The plans of J. L. Wilson, architect, Chatham, have been accepted for the new public school to be built here, at an estimated cost of \$16,000.

MARQUETTE, MAN.—The ratepayers of Prairie district have passed a resolution to build a new school, to cost about \$2,000. The trustees are getting plans and estimates.

CHARING CROSS, ONT.—Robert Wilson is asking for tenders, until Feb. 24, for the erection of a brick and stone residence. J. L. Wilson & Son, Chatham, are architects.

ST. JOHN, N. B.—The report of Ross & Holgate, consulting engineers, Montreal, on the establishment of a civic lighting plant and water power at Silver Falls, has been received.

PORT ARTHUR, ONT.—Forty acres of land overlooking the bay are said to have been acquired by a New York syndicate for the purpose of establishing a sanitarium.

ALMONTE, ONT.—The Bank of Montreal have bought the property, corner of Mill and Brae streets, and intend replacing the present building by a fine stone structure.

PALLISER, B. C.—Work has been commenced by the C.P.R. on a new tunnel through an immense clay cliff west of this place. It is to be concrete lined and to cost \$100,000.

BERLIN, ONT.—A site has been secured and plans are being prepared for the new button factory to be established here. Those interested are Geo. Schler, D. B. Deteveiler and M. B. Shantz.

INDIAN HEAD, SASK.—William Spurrell, of Alix, is preparing to build a large three storey brick hotel, corner Peace and Second streets, to cost \$20,000. Cannell & Spencer are the architects.

ASHCROFT, B. C.—E. L. Drewery, C. S. Riley and Herbert Crowe, all of Winnipeg, are applying for permission to build a railway from this place to Fort George, a distance of about 300 miles.

QUEBEC, QUE.—The Sun Life Insurance Company are negotiating for the purchase of the old building, corner St. Peter and St. James streets, on which to erect an eight-storey office building.

SMITH'S FALLS, ONT.—A by law will be submitted to the ratepayers to assist the Frost & Wood Company in rebuilding their works. The new buildings will be fireproof and four stories high.

YARMOUTH, N. S.—The Yarmouth Telephone Company will make application to the Legislature for incorporation, giving them power to construct and operate telephone lines in the County of Yarmouth.

MARKHAM, ONT.—Arrangements are being made for the construction of a bridge across the Rouge River, to cost about \$14,500. It will be built under the

direction of James McDougall, County Engineer, Toronto.

STEVESTON, B. C.—A new salmon cannery is to be erected soon, on the north side of the river between Phoenix and the Canadian Pacific cannery, to cost about \$20,000. R. V. Winch, Vancouver, is interested.

ST. THOMAS, ONT.—The Board of Management and Building Committee of the Church of Christ have decided to build a new church, corner Railway and Elizabeth streets.—W. E. Idsardi purposes erecting a block of stores corner Railway and Talbot streets.

FORT FRANCIS, ONT.—The Minnesota Canadian Bridge Company will make application to Parliament at the next session for incorporation and for power to construct a bridge across the Rainy River near Pither's Point.

FREDERICTON, N. B.—The City Council have decided to present a bill to the Legislature to empower them to issue debentures not exceeding \$45,000 to establish a filtration plant in connection with the present waterworks system.

VERNON, B. C.—Work will soon be started on the new C.P.R. steamer at the Landing for the Okanagan lake service. The cost will be \$50,000. With additional docks and barges the C. P. R. will spend about \$150,000 at the Landing this season.

BRANTFORD, ONT.—A new school is proposed, to cost about \$25,000. Extensive improvements on other schools of the city are contemplated.—Last January the ratepayers voted \$45,000 for additions to two schools. It is now proposed to spend the major portion of the amount in building an entire new school.

EDMONTON, ALTA.—The Blowey-Henry Furniture Company intend building a store five stories high.—The Edmonton Pressed Brick Company will install a dry press machine.—The City Engineer's department is busily engaged on plans for three miles of street railway line to be constructed this summer.

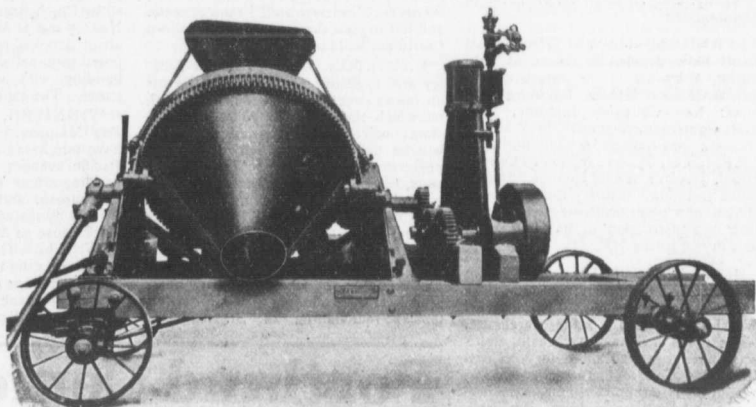
PORT HOPE, ONT.—J. W. Sanders, Town Clerk, will receive tenders until February 26th for the remodelling of the Central fire hall. Information from C. A. Merrifield.—The Town Council are applying to the Legislature for permission to raise \$10,000 by debentures for the establishment of a municipal electric light plant.

TORONTO JUNCTION, ONT.—The following building permits have been issued: Robert Amos, brick and concrete dwelling, Uttley street, cost \$1,400; R. Kemp, two-storey brick store and dwelling, Quebec avenue, cost \$2,000.—The C.P.R. has purchased a block of land north of their tracks, west of Elizabeth street, to which site they intend soon to remove their shops.

CALGARY, ALTA.—The City Council have decided upon the construction of a trunk sewer to cost about \$70,000 and the extension of the electric light plant. The Waterworks Committee have recommended that a by-law be submitted to the ratepayers to raise \$100,000 for waterworks improvements, including the removal of the pumping station to a point further up the Bow river and the construction of a reservoir.

NIAGARA FALLS, ONT.—Plans for the spillway and overflow building of the Ontario Power Company, drawn by Green & Wicks, of Buffalo, N.Y., have been approved by the Park Commissioners.—The Niagara Frontier Bridge Company has been formed for the object of building a new bridge across the Niagara River, work on which is to be begun before December 31st, 1906. James P. Murray, president of the Toronto Carpet

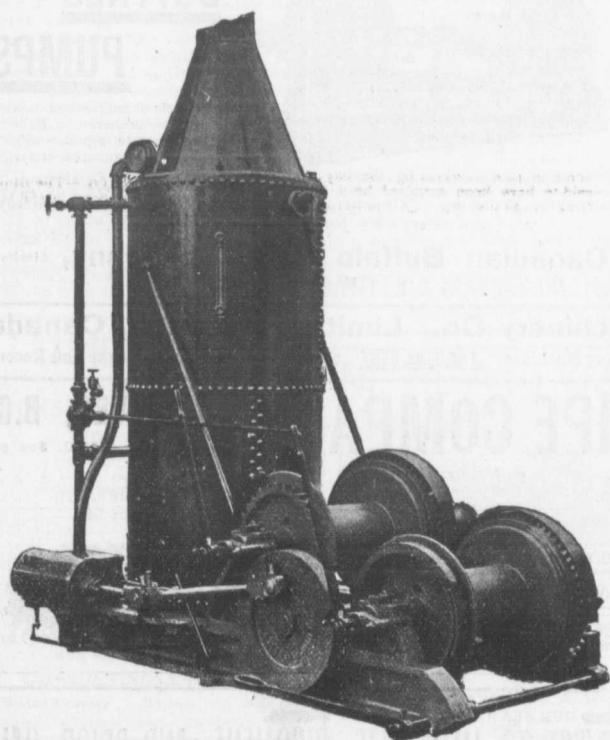
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the construction of the following buildings: Section houses on stone foundations at Chater, Hargrave, Burrows, Percival and Tyvan; combination section houses and telegraph offices at Raleigh, Culver and Meadows; stations at Frobisher and Glen Ewen; stations and freight sheds at Mortlach, Herbert, Chaplin, Lang and Houghton; portable depots at Morse and L'jord.—The City Engineer has reported to the Health Committee that the cost of enlarging the crematory would be \$18,200.—The Great Northern Railway will, it is said, apply for permission to build a line from Havre, Montana, to Edmonton via Medicine Hat, a distance of about 420 miles.

VANCOUVER, B. C.—Plans for the market buildings have been submitted by the City Engineer. These provide for a wharf to cost \$28,000, and buildings to cost \$20,900.—Crowe & Wilson will build a large brick block on Hastings street, between Westminster and Columbia avenues, to cost \$20,000.—The people of South Vancouver, at a recent meeting, decided to build a new school during the coming summer.—Plans for the new theatre, corner of Hastings street east and Gore avenue, have been completed by Chas. K. Shand, architect. It will be three stories, 73 x 120 feet, approximate cost \$40,000.—W. A. Clark, of this city, and F. S. DeGrey, New Westminster, have had plans prepared for a three storey store and office building on Hastings street, to be of brick and stone, cost about \$35,000.—M. C. Griffith has taken out permits for the erection of a store and dwelling on Broughton street, to cost \$5,000; also two dwellings on adjoining lots, to cost \$3,000 each.—The Vancouver, Fraser Valley & Southern Railway Company will ask incorporation, to build from Vancouver to New Westminster and thence across the U. S. border.—J. A. Moore, of this city, is one of the prime movers in a scheme to build an electric railway between this city and Portland, Washington. Preliminary work on the right of way has already been

commenced.—The new building to be erected by Vancouver Lodge No. 10, Independent Order of Oddfellows, will be located on corner Hamilton and Pender streets and will be two stories and basement, of stone and brick.

TORONTO, ONT.—The Warden King Company, Montreal, have purchased a site on Lombard street, east of the post-office, on which to erect new factory buildings, to cost about \$45,000.

—The Frank H. Freer Company, Philadelphia, have leased the old Wampole warehouse on Lombard street, which will

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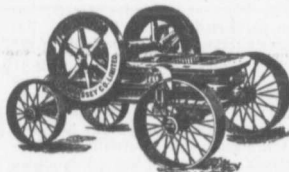
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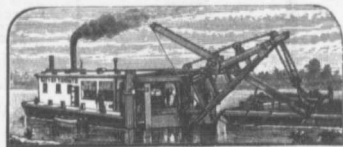
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be fitted up for their use.—Hyslop Bros., have bought a site, corner of Shuter and Victoria streets, on which to build an automobile factory.—City Engineer Rust has recommended the construction of a number of asphalt pavements.—The Bellevue House has recently been purchased from Dr. Temple for a church home for aged people. An extension to the building is contemplated.—The Sisters of St. John the Divine are interested in the scheme.—The following works are to be constructed: A 15-inch tile pipe sewer in Poplar Plains road, cost \$6,500; macadam roadway on Ann street, cost \$4,550; asphalt pavement on Richmond street between Church and Jarvis streets, cost \$7,780; brick pavement on Wellington avenue, cost \$2,106; asphalt pavement on Elliott street, cost \$5,216; brick pavement on Lobb avenue, cost \$2,125.—Plans for the disposal of Toronto's sewage have been approved, of the estimated cost of the work being \$2,073,341. This will include a high level sewer, Dufferin street, to cost \$731,541; low-level sewer along Front street and Eastern avenue to Woodbine with siphon under the Don, cost \$257,100; septic tank, \$344,700; force main, \$120,000; pumping station, \$355,000.—Finley & Spence, architects, Montreal, are preparing plans for the new Molsons Bank building to be erected on Bay street near King. It will be a two-story structure, 100 feet by 50 feet.—Tenders will be received until 23rd. inst. for the erection of two roughcast dwellings. Plans at 309 Lippincott street.—P. H. Finney, architect, Adelaide and Church streets, is asking for tenders for erection of a house on Howard street.—The Pines Hotel, Bloor and Dundas streets, has been purchased by A. L. Sparling. Extensive alterations are to be made in the building.—The office building at 160 Bay street has been sold to Charles Tilley, who intends building a wholesale warehouse in the rear.—A macadam pavement has been recommended by the City Engineer for Cottingham street, eastward from Avenue road, to cost \$2,802.—A bitulithic pavement will be constructed on Gibson avenue, from Yonge street to west end, cost \$2,752.—A new asphalt pavement has been recommended for Queen street, between Niagara street and Roncesvalles avenue, to cost \$66,332.—Building permits have been granted as follows: Hugh Blain, 2 story stone and brick dwelling, Schiller avenue, cost \$3,000; Anzman & Marshall, 2½-story brick and frame dwelling, Yorkville avenue, near Avenue road, cost \$3,000; Mrs. I. Wilson, 2½-story brick dwelling, 17 Emerson avenue, cost \$3,200; W. C. McQuillan, 2-story and basement stone and brick dwelling, Dearborn avenue, cost \$3,200; J. & N. B. Graudin, pair 2-story and attic stone, brick and slate dwellings, Grace street, near Evans avenue, cost \$5,000; M. Langmuir, 2-story and attic brick dwelling, Schiller avenue, cost \$5,000; J. Taylor, pair 2½-story frame and roughcast dwellings, Austin avenue, near Pape, cost \$3,000; Mrs. L. E. Miller, 2-story brick dwelling, 162 Howland avenue, cost \$2,000; The Wm. Davies Co., one-story brick store, 230 Queen street west, cost \$3,900; S. C. Stanley-Clark, 2 1/2 story brick and Roman stone dwelling, corner Bernard avenue and Huron street, cost \$7,000; John McLeod, pair 2 1/2 story brick and stone dwellings, Howland and Albany avenues, cost \$6,000; Mrs. Husband, 2-story and attic brick and stone dwelling, Beatty avenue, near Queen street, cost \$4,000; C. E. Boyd, 2 1/2-story brick dwelling, Bathurst street, near Ulster, cost \$5,000; William Gordon, 2 1/2-story stone and brick dwelling, Binscarth avenue, near Glen road, cost \$4,300; Mrs. Ewing, 2-story

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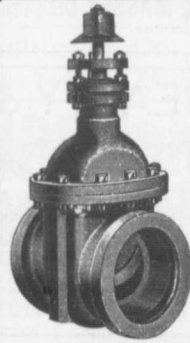
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brick dwelling, Landowne avenue, near Lappin, cost \$3,000; G. Sanderson, 2-storey brick dwelling and shop, Palmerston avenue, near Barton, cost \$3,000; G. H. Weale, 2-storey brick dwelling, Radcliffe avenue, near Queen street, cost \$2,400.—M. J. Haney is negotiating to secure the site west of Cherry street and north of Keating's Channel, to use for storage and for the manufacture of structural steel work for bridges and buildings.—It is proposed to lease the three acres east of the Haney site to a company who will manufacture lubricating oils.—Chas. F. Wagner, architect, 28 Toronto street, will receive tenders until 24th inst. for various trades in erection of four brick houses on Clinton street.—The Kew Beach Presbyterians contemplate the erection of a new church on Minerva avenue, at an estimated cost of \$15,000.—The Bank of British North America is having plans prepared for the erection of a brick building for bank purposes at the corner of Dufferin and King streets.—It is rumored that Mackenzie & Mann are desirous of obtaining a site on Ashbridge's Marsh, on which they would establish extensive car works.—A Deaconess home and training school will soon be built on the Metropolitan square, corner Church and Shuter streets, to cost \$100,000.—The Bachrack Company have leased the new warehouse of Geo. Hees & Son on Bay street, near Wellington, to which they purpose adding another story.

CONTRACTS AWARDED.

MAISONNEUVE, QUE.—The contract for building new fire station has been let to Alphonse Gratton, at \$25,075.

PEMBROKE, ONT.—The Canadian Westinghouse Company have secured the contract for installation of electric plant at Black River near Pembroke.

PORT BURWELL, ONT.—The Pacific Construction Company, of Ottawa, have secured the contract to build the new breakwater here, to cost \$70,000.

ESQUIMALT, B. C.—Messrs. Bullen, of the B. C. Marine Railway, have received the contract for repairs on the British bark Bermuda, to cost about \$25,000.

PETERBORO, ONT.—Abel Hendren, Lakefield, has secured the contract to build a 2-storey frame residence on Jacob's Island, in Pigeon Lake, for Mrs. F. A. Bates, of New York, to cost \$7,000.

OTTAWA, ONT.—The Ottawa Electric Railway Company have accepted the following tenders for new boat house at Britannia-on-the-Bay: Carpentry, J. J. Wallace; structural steel, Dominion Bridge Company; painting, Ritchie & Nunn; plumbing, Blyth & Watt.

ST. HENRY, QUE.—Archibald F. Byers, B.Sc., 18 St. Alexis street, Montreal, has secured the contract for the construction of a large concrete tank, to hold the furnaces and chimneys of the new mill plant of the Montreal Rolling Mills Company.

POINT ST. CHARLES, QUE.—The following tenders have been accepted by the Catholic School Board for erection of annex to Sarsfield school, estimated cost \$13,000: Woodwork, Brouillette & Lessard, \$6,500; plumbing, heating and ventilation, A. Belanger, \$4,275; plastering, Jos. Chamberland, \$1,030; painting and glazing, D. Lamontague, \$864; tiling and marble work, T. Rocon & Son, \$1,254.

TORONTO, ONT.—Westinghouse, Church, Kerr & Company, New York, are reported to have been awarded the contract for the erection of the new Union station. Ross & McFarlane, Montreal, and Carrere & Hastings, New York, are joint architects.—St. Peter's Church, Bloor street: Brick and masonry, Wm. Kean; carpenter work, Hogg & Company; plastering, H. R. Beaver; painting, Jones & Ottaway; roofing, A. Ryan; iron columns, McGregor & McIntyre.

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					Initial	Final	Neat.				3 (Sand) to 1 (Cement)							
							1 dy.	7 ds.	28 dys.	3 mos.	1 yr.	1 dy.	7 dys.	28 dys.	3 mos.	1 yr.		
1903	20	O.K.	3.135	2.1	162	345	307	701	783	827	*	74	214	299	367	*		
1904	44	O.K.	3.150	2.0	132	342	300	744	848	914	938	86	62	354	401	427		

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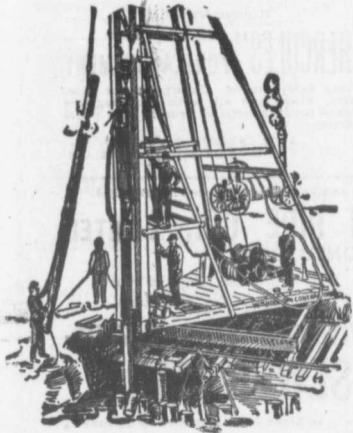
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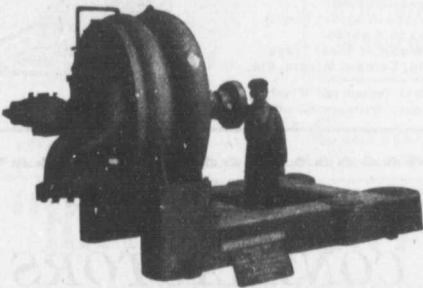
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Is electricity to include in the list of its marvelous achievements the solution of the great problem of sewage purification? A great deal has been heard, especially since the appointment of the Royal Commission on Sewage Disposal, says an English paper, as to the bacteriological treatment of sewage, and electrical methods have given results so encouraging that no surprise will be felt that it is an electrical process which has produced what seems to be a perfect purifier, cleanser and sterilizer. The opinion expressed by a number of sanitary scientists and others, less skilled, perhaps, although not less interested in the problem, who visited the Guildford Sewage Works the other day, was that the solution which is the agent employed in the oxychloride sewage process is a potent deodorant and germicide, adaptable with equal success for sewage purification, for household disinfection, and for general cleansing and bleaching purposes.

The process by which this purifying agent is produced is simple, and the necessary plant inexpensive. It consists in the electrical decomposition of salt and water, or, where easily obtainable, sea water in a specially designed electrolyzer having a large superficial area of electrical surface, which permits of the use of a large volume of current at a very low voltage, thus securing economy of operation. The solution thus obtained is added to the effluent in quantities varying according to its nature and the water into which it has to be discharged.

To demonstrate the commercial application of the process to sewage purification, Dr. Rideal, the well known expert, has made a series of experiments, extending over several months, in specially constructed tanks at the Guildford Sewage Works, the authorities having given facility for the most thorough tests. To the visitors Dr. Rideal explained that at Guildford every kind of effluent could be dealt with, and tests had been carried out with raw sewage septic tank effluents and those from primary, secondary, and tertiary filters, and the efficiency of the solution in removing putrefactive organisms, the organisms which are comparable in origin and vitality with those which cause typhoid fever and cholera, and organic matter in solution had been demonstrated. To the public the interest lies not in the process, but in its results, and these suggest that in the treatment of raw sewage, or that which had undergone preliminary treatment in a

septic tank, the solution has an effect, immediate and potent. To produce a purity from bacteria equal to or better than that generally allowed for drinking water was found not to be a difficult matter. With a primary effluent, $7\frac{1}{2}$ gallons of oxychloride per 1,000 gallons of effluent reduced the bacillus coli—present in all sewages, and allied to the typhoid bacillus—and the enteritis spores from over 100,000 and 100 respectively, so that none could be found in one cubic centimeter in 1 hour 20 minutes after treat-

ment. In raw sewage, $18\frac{1}{2}$ gallons per 1,000 reduced the coli from over 1,000,000, so that none were found in one cubic centimeter, and the enteritis spores from over 1,000 to less than 10 in 5 hours, and the total number of organisms from 23,200,000 to 540.

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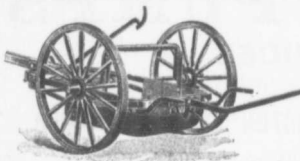
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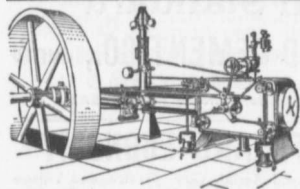
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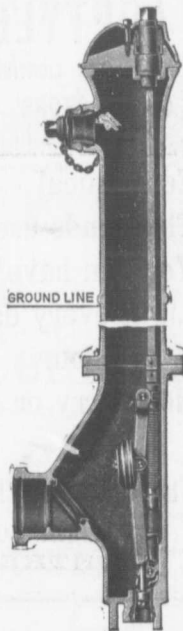
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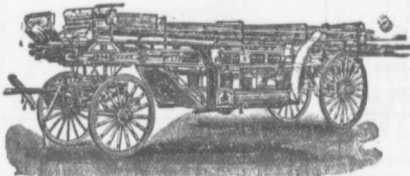
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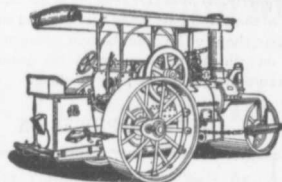
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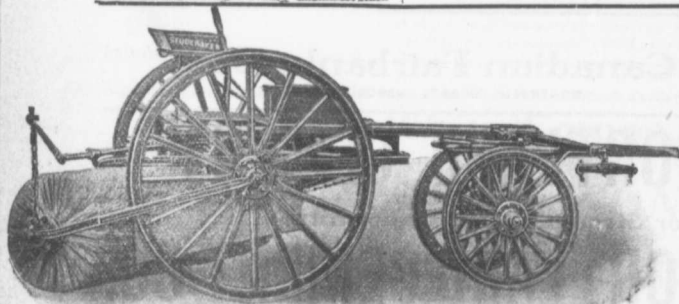
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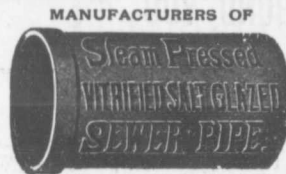
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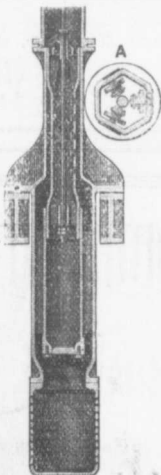
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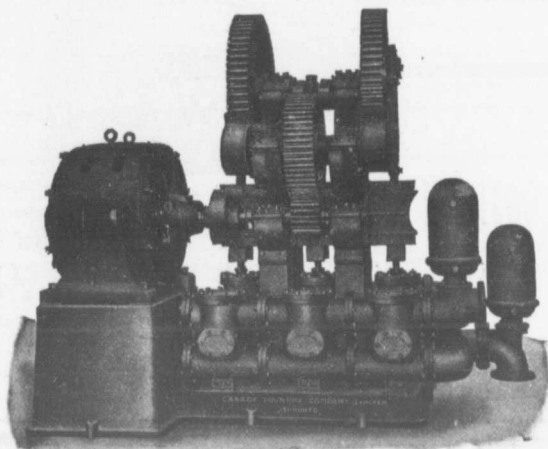
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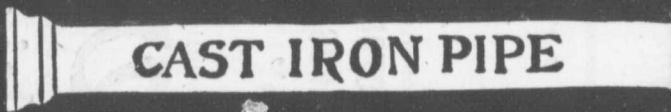
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