

CANADIAN CONTRACT RECORD

*A Weekly Journal of Engineering, 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, Leading Civil Engineers and Contractors throughout Canada, and Purchasers of Municipal Debentures.

VOL. 18

TORONTO, MONTREAL — MARCH 13, 1907 — WINNIPEG, VANCOUVER

No. 2

THE CANADIAN CONTRACT RECORD PUBLISHED EVERY WEDNESDAY

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PUBLISHERS' ANNOUNCEMENT.

To ensure publication of the **CONTRACT RECORD** on time, advertisers are requested to strictly observe the following regulations:

Copy and cuts for change of advertisements must reach the publication office in Toronto not later than Saturday preceding the date of publication. The copy should show the size of the cuts, if any, as sometimes there is delay in transmitting the latter through the mails.

Transient advertisements for Tenders must reach the publication office by **TEN O'CLOCK A. M. ON TUESDAY**, but our patrons will confer a favor by forwarding advertisements earlier whenever possible.

WANTED

for the town of Pembroke, a town Engineer. Applicants to state salary and experience.

A. J. FORTIER, Town Clerk.

Pembroke, February 28th, 1907.

TENDERS FOR BROKEN STONE

Sealed tenders will be received by the undersigned up till noon on the **SECOND DAY OF APRIL, 1907**, for supplying the city of Windsor with 12,000 tons, more or less, of Broken Stone for macadamizing streets, the same to be delivered to each car in such railway yard within the city as the Council may direct.

Forms of tender containing specifications, etc., furnished on application, and tender must be made on said forms. No tender necessarily accepted.

STEPHEN LUSTED,
City Clerk.

Windsor, February 26, 1907.

For Sale

Two Canadian patents, covering Labor-Saving Device. Information given on application.

Box 512, St. Catharines, Ont.

TOWN OF ST. BONIFACE TENDERS

The undersigned shall receive, up to 5 o'clock p. m. on **FRIDAY, MARCH 22, 1907**, tenders for the supply of 5,000 barrels of cement, more or less, and 2,500 yards of broken stone, more or less.

Each tender must be accompanied by an accepted cheque or cash deposit equal to 5 per cent. of the amount of the tender.

The town reserves the right to reject any or all tenders.

For specifications apply to J. O. Delisle, Town Engineer.

J. B. COTE,
Secretary-Treasurer.

Dated at St. Boniface, February 26, 1907.

Tenders Wanted

Sealed tenders, addressed to the undersigned at Harriston, and marked "Tender," will be received up to and including **TUESDAY, MARCH 19th, 1907**, for the erection of an addition to the Public School Building in the Town of Harriston.

Plans and specifications may be seen at the residence of the undersigned on and after March 4th. Tenders for the whole work or the several trades will be accepted.

The required stone, sand and brick will be furnished to the contractors.

Each tender must be accompanied by an accepted cheque or cash deposit for 5 per cent. of the amount of the tender.

The right to reject any or all tenders is reserved.

W. D. McLELLAN,
Chairman Property Committee,
Board of Education.

Harriston, Ont., February 23rd, 1907.

TOWN OF ALLISTON

Province of Ontario

Debentures for Sale

Sealed tenders will be received up to 2 o'clock p. m. **MONDAY, MARCH 25th, 1907**, for the purchase of the following Debentures of the Town of Alliston amounting in all to the sum of \$6,950.72: \$2,500 for improvement and macadamizing Victoria street in said town, spread over a period of 20 years and dated the 15th December, 1906, and bearing interest at the rate of 4 per cent.; \$4,450.72 for cement sidewalks in said town of Alliston, as provided under Local Improvement By-Laws No's 161, 162, 163, 164 and 165 of said town, extending over a period of 25 years, bearing interest at the rate of 4 per cent and dated the 1st day of January, 1907. All of said debentures are guaranteed by the County of Simcoe.

The highest or any tender not necessarily accepted.

Address,

THOMAS M. BROWN,
Chairman Finance Committee,
Town of Alliston, or
WM. LOCKHART, Clerk.

SUPERINTENDENT OR FOREMAN

Advertiser is open for engagement as Superintendent, Inspector or Foreman on Construction Work; has held position as Superintendent and Foreman on Reinforced Concrete Construction and buildings of all kinds and can show good results at fair costs. Apply Box 103, CONTRACT RECORD, Toronto, Ont.

Contractors' Notice

If you are tendering on any work in **NORTHERN ONTARIO** we are prepared to give right figures on heating and plumbing work.

CAVEN & MONCEON
Sturgeon Falls, Ont.

CITY OF REGINA

FIRE HALL

Sealed tenders, marked "Tender for new Fire Hall" will be received by the undersigned up till **TUESDAY, 19th MARCH, 1907**, at 5 o'clock p. m., for the erection of a new Fire Hall for the City of Regina, according to plans and specifications which may be seen at the office of the City Engineer, Regina, or the office of the Architects, Messrs. A & W. Melville, Union Bank Building, Winnipeg.

A deposit of 5 per cent. must accompany each tender.

The lowest or any tender not necessarily accepted.

J. KELSO HUNTER,
City Clerk.

Regina, 28th February, 1907.

TOWN OF BATTLEFORD SASKATCHEWAN

Waterworks, Sewerage and Electric Lighting

Sealed tenders will be received by the Secretary-Treasurer of the Town of Battleford until 5 p. m. **APRIL 15th, 1907**, for the following works:

Contract "A"—All labor and materials necessary for constructing the Water Works Force Main, Distribution System and Intake.

Contract "B"—All labor and materials necessary for constructing a Sewer System.

Contract "C"—The supply and erection of a sixty thousand gallon Elevated Tank.

Contract "D"—The supply and erection of a Water Works Pump.

Contract "E"—The supply and erection of one Return Tubular Boiler.

Contract "F"—The supply and installation of an Electric Lighting System.

Contract "G"—The supplying at Battleford of Cast Iron work for Manholes and Catch-basins.

Plans and specifications may be seen and forms of tender obtained at the office of the Secretary-Treasurer, Battleford, or at the offices of Galt & Smith, Chief Engineers, Toronto.

The town reserves the right to reject any or all tenders.

R. C. LAURIE, Esq.,
Secretary-Treasurer
GALT & SMITH,
Consulting Engineers, Battleford, Sask.
23 Jordan St., Toronto.

[FOR ADDITIONAL ADVERTISEMENTS FOR TENDERS SEE NEXT PAGE]

TENDERS

will be received by the undersigned until APRIL 15TH next for the lighting of the Village of Millbrook by electricity.

Further information on application. The village reserves the right to reject any or all tenders.

WALTER W. GILLOTT, Clerk.



Department of Railways and
Canals

Quebec Canals

Notice to Dealers in Cement

Sealed tenders endorsed "Tender for Cement" will be received by the undersigned until 10 o'clock on WEDNESDAY, THE 13TH MARCH, 1907, for the supply of 10,000 barrels of Portland Cement for the use of the Quebec Canals.

Specifications and terms of tender can be procured at the office of the Superintendent Engineer of the Quebec Canals, No 2 Place d'Armes Square, Montreal, and at the office of the Chief Engineer of the Department of Railways and Canals, Ottawa, on and after Monday, the 4th March, 1907.

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

By order,
L. K. JONES,
Secretary.

Department of Railways and Canals,
Ottawa, 1st March, 1907.

Newspapers inserting this advertisement without authority from the Department will not be paid for it.

WATER WORKS

NEW LISKEARD, ONT.

Sealed tenders will be received by Sinclair & Smith, Engineers, New Liskeard Ont., until 12 o'clock, noon, on SATURDAY, MARCH 16TH, 1907, for the construction of a Water Works system for the Town of New Liskeard.

These shall be marked Water Works Tender "A" or "B", as the case may be.

The above work comprises the following contracts:

"A"—Furnishing all cast iron pipe and accessories f.o.b. cars New Liskeard, Ont.

"B"—Furnishing all wood stave pipe and accessories f.o.b. cars New Liskeard, Ont.

"C"—Hauling and laying all cast iron and wood stave pipe, approximately 25,000 feet, ranging from four inches to fourteen inches in diameter; doing all the excavating and back filling; setting all hydrants, valves and specials, and constructing valve chambers.

"D"—Furnishing and erecting a steel standpipe twenty-one feet in diameter and fifty-five feet high.

"E"—Protecting and developing springs on Lot 1, Concession 2, Township of Harris, and constructing a receiving basin.

"F"—Furnishing all material and labor for the construction of:

1. A concrete block pumping station with concrete foundation; concrete foundations for pumps and motors and also a concrete receiving well at pumping station.

2. Concrete foundation for steel standpipe with necessary clearing, excavating and grading.

"G"—Furnishing and erecting two 100 h. p. 3-phase, 60 cycle, 2,200 volt motors with all necessary accessories in the pumping station.

Alternative propositions will be received as follows:

1. Each motor to be direct connected to a multi-stage turbine pump, each having a capacity of 600 imperial gallons per minute against a head of 325 feet.

2. Each motor to be connected by an endless chain to a double-acting vertical triplex power pump, each pump having a capacity of 600 imperial gallons per minute against a head of 325 feet.

"H"—Furnishing and erecting two pumps each having a capacity of 600 imperial gallons per minute against a head of 325 feet.

Alternative propositions will be received on the following:

1. Two multi-stage turbine pumps direct connected to motors as described in Contract "G".

2. Two double-acting vertical triplex power pumps connected by an endless chain to motors as described in Contract "G".

Instructions to bidders, together with forms for contract and bond, will be sent upon application at the office of Sinclair & Smith, Engineers, New Liskeard, Ont., where plans and specifications can be seen.

The right is reserved to reject any or all tenders.

By order of the Town Council.

SINCLAIR & SMITH, Engineers,
New Liskeard, Ont.

WANTED—first class Architectural Draughtsman, MURROE & MEAD, Hamilton, Ont.

Draughtsman wants position. Experienced, up-to-date, design, details, decoration, perspective, ink or color. Address BOX 104, CONTRACT RECORD, Toronto.

TENDERS

Tenders will be received up to 5 p.m. on SATURDAY, THE 16TH INST., for all trades, except Plumbing and Heating, required in the erection of

A LARGE BRICK RESIDENCE

on St. George Street.

The lowest or any tender not necessarily accepted.

F. H. HERBERT, Architect,
9 Toronto St., Toronto.

TENDERS WANTED

Tenders, in whole or part, will be received by the undersigned up to MARCH 22ND for the erection and completion of Cut Stone and Brick Building at Toronto Junction for the Bank of British North America.

Plans, specifications and all particulars may be obtained at the office of the architects, also at the Bank British North America, Toronto Junction.

ELLIS & CONNERY, Architects,
208-209 Manning Chambers, Toronto.

Tenders Wanted

for the enlargement and alteration (exclusive of seating and heating) of Collier Street Methodist Church, Barrie, according to two sets of plans and specifications by G. M. Miller & Co., Architects, Toronto. Tenders received separately from the different trades, or for the work as a whole.

Plans and specifications can be seen on and after March 11th at the office of Mr. E. Donnell, Council Chamber, Barrie. Tenders must be sealed and marked "Tenders for Church" and addressed to Rev. Dr. Ockley, Chairman of the Committee, not later than MARCH 25TH, 1907. The lowest or any other tender not necessarily accepted.

SEALED TENDERS

to be received by the undersigned up to 7 p.m. WEDNESDAY, 10TH APRIL, NEXT, for building a Concrete Culvert 34 feet in length and 6 feet span.

Also for building a Steel Rivetted Warren Low Trussed Bridge, 60 feet span, 14 feet clear roadway, and to carry a ten ton Traction Engine. For superstructure only Tenders to be for Steel Joist and 4 inch Hemlock Plank Roadway. Also a tender for a Concrete Flooring.

No tender necessarily accepted.

For further information apply to the undersigned.
P. S. GIBSON & SONS,
Engineers, Township York,
Willowdale, Ont., 11th March 1907.

Town of New Liskeard

Debentures for Sale

Tenders will be received up to 8 o'clock p. m. on MONDAY, APRIL 1ST, 1907, for the purchase of the following debentures; amounting to the sum of \$5,000, for the purchase of Town Hall and Market property, payable in twenty annual instalments of \$250.00 each and bearing interest at 5% covering a period of twenty years from 1907 to 1926 inclusive. Address

H. HARTMAN, Town Clerk,
New Liskeard, Ont.

New Liskeard, March 11, 1907.

Debentures for Sale

Sealed Tenders will be received by the undersigned until noon FRIDAY, MARCH 29TH, 1907, for the purchase of \$6,500.00 Debentures of the Town of Harriston, bearing interest at the rate of 4 1/2 per cent. per annum. Principal and interest thereon payable in thirty equal annual instalments of \$219.04 at the Standard Bank, Harriston, on the first day of March in each year. The first of such payments to be made on the first day of March, A.D., 1908. Purchaser to pay accrued interest from the first day of March, 1907, till payment of purchase money. The money to be paid and the Debentures delivered at the Standard Bank, Harriston, on the first day of May next.

No tender necessarily accepted.

L. BRISBIN,
Town Treasurer.

Harriston, March, 1907.

Mr. J. E. Woods, C.E., has left for his home at Frank, Alta., after a two months visit at Aylmer, Ont.

CONTRACTS OPEN.

HUNTINGDON, QUE.—A new steel bridge is to be constructed here.

AMHERST, N. S.—The Amherst Boot & Shoe Co. have decided to enlarge their factory.

BERLIN, ONT.—W. E. Shantz and H. Zuelsdorf will erect a two-storey factory 50 x 80 feet.

ST. JOHN, N. B.—Extensions are to be made to the water and sewerage systems to cost \$16,000.

THORNHILL, ONT.—W. Riddell has purchased property on which he will erect a brick residence.

EGLINGTON, ONT.—The Toronto Radial Railway will shortly commence the erection of new car barns.

ARNPRIOR, ONT.—The Board of Education have decided to equip the school buildings with fire escapes.

NEW LISKEARD, ONT.—Tenders will shortly be called for construction of steel bridge 75 feet long over the Wabbi river.

REGINA, SASK.—The Grey Nuns are asking the City Council for a free site on which to erect a hospital at a cost of \$100,000.

CHESTERVILLE, ONT.—A cement block church is to be erected in this village by the Methodist congregation at a cost of \$20,000.

OTTAWA, ONT.—It is reported that the Grand Trunk Pacific Railway will construct a line from Prince Rupert to Skagway, Alaska.

WALKERVILLE, ONT.—The Windsor & Tecumseh Electric Railway Co. have been granted a year in which to complete their road.

HALIFAX, N. S.—The Silliker Car Co. have acquired 20 acres of land on which the erection of their works will shortly be commenced.

BROADVIEW, MAN.—Tenders called for by F. R. Evans, architect, Winnipeg, for erection of school have been extended to March 15th.

ST. STEPHEN, N. B.—Tenders will shortly be taken for erection of a steel and concrete sawmill 40 x 147 feet for the St. George Pulp and Paper Co.

CHILLIWACK, B.C.—Hooper & Watson, architects, Victoria, have prepared plans for extensive additions to be made to the Coqualectza Home.

HESPELER, ONT.—A bylaw granting a loan of \$15,000 to the Hespeler Hoisting Machinery Co. to establish works in this town has been carried.

KITIMAT, B.C.—Hooper & Watson, architects, Victoria, have prepared plans for the erection of a three-storey building for the Methodist Missionary Society.

GRAVENHURST, ONT.—W. H. Cross, Town Clerk, wants tenders up to March 16th for erection of power house at South Falls. Plans at Clerk's office.

BARRIE, ONT.—Rev. Dr. Ockley is taking tenders up to March 25th for alterations to Collier Street Methodist church. Plans with E. Donnell, this town.

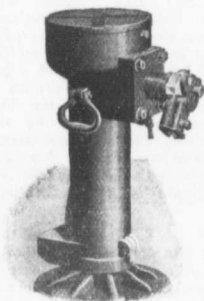
WALLACEBURG, ONT.—S. Somers and T. F. Hinnigan are interested in erection of grist mill in this town. The proposed building will be 104 x 68 feet, four storeys high.

WOODSTOCK, ONT.—Representatives of the City Council will shortly meet the Railway & Municipal Board to discuss the proposed extension of the Municipal electric lighting plant.

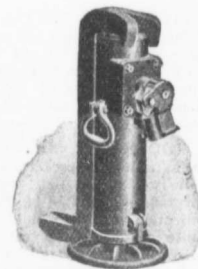
TORONTO, JUNCTION, ONT.—Ellis & Connery, architects, Toronto, will receive tenders up to March 22nd for erection of stone and brick building for Bank of British North America.



35 Ton Ball-Bearing Jack on Traversing Base.



50 Ton Ball-Bearing Bridge Jack with Foot Lift.



15 Ton Cone-Bearing Jack with Hook.

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NORTON JACKS

Because there are no faults to be found. If there were they would have been found out and everybody would know about them because

NORTON JACKS

Are in use all over the world

BALL-BEARING
CONE-BEARING
RATCHET

SIMPLE AND DURABLE

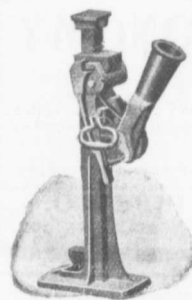
Lightest Jacks in the world of the same capacity.

Always safe and reliable even in the hands of inexperienced workmen.

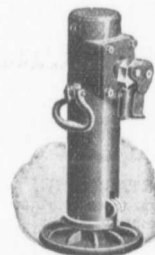
Screws are self-lubricating; absolutely dirt proof.

Always found ready for use when wanted.

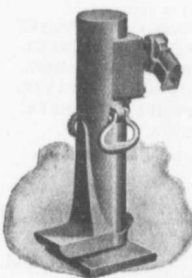
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15 Ton Cone-Bearing Jack.



No. 5 Track Jack.



15 Ton Journal Jack.

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Railway, Mining and Contractors' Supplies.
Head Office: MONTREAL

& J. Galt, of Calgary, are reported to be negotiating for a site in this town on which to erect a new warehouse.

BRANTFORD, ONT.—Extensive additions are to be made to the Gould, Shapely & Muir.—The Dominion Natural Gas Co. intend sinking a hundred new wells.—Shultz Bros. are about to establish a sand lime brick plant in this city at a cost of \$40,000.

NIAGARA FALLS, ONT.—W. H. Buckley has purchased property on which to erect a two-storey brick building.—Plans are being prepared for additions to be made to the Savoy Hotel.—D. M. Walker will erect a residence on Ryerson street.

PICTOU, N. S.—The Nova Scotia Telephone Company will receive tenders up to March 25th for the erection of a brick building in this town. Plans at Company's offices in Pictou and New Glasgow, also at office of H. E. Gates, architect, Halifax.

MOOSE JAW, SASK.—The citizens are agitating the erection of an armoury.—It is reported that the Federal Life Insurance Company, of Hamilton, Ont., will erect an office building and opera house in this city at a cost of \$100,000.—A. W. Bell wants tenders up to March 20th for erection of a school house.

BROCKVILLE, ONT.—It is reported that the Grand Trunk Railway will build a new station here.—A laundry building is to be erected in connection with the General Hospital at a cost of \$4,000.—The Town Council are considering the amalgamation of the light and water plants at a cost of about \$30,000.

VICTORIA, B. C.—The Brackman Kerr Milling Co. have instructed F. M. Rattenbury, architect, to prepare plans for a two-storey brick building, 80x105 ft., to be erected on Brock street at a cost of \$25,000.—E. Steele of Calgary, has purchased the Revere House and intends enlarging same.

WETASKIWIN, ALTA.—The ratepayers recently voted in favor of the following bylaws: Construction of a municipal system of waterworks and sewers at a cost of \$140,000; improving and extending the municipal electric light and power plant at a cost of \$30,000; erection of a hospital at a cost of \$10,000.

QUEBEC, QUE.—The Christian Brothers will erect a large building on St. Francis street.—C. Robitaille will erect a four-storey building on Caron street to cost \$10,000.—Mr. Blouin will erect a tenement house on St. Valer street.—A convent is to be erected on the Boulevard Langelier by the Religieuses of Notre Dame.

PETERBORO, ONT.—G. W. Green will erect a one-storey brick factory 100 x 50 feet.—G. W. Morrow, Secretary Board of Education, will receive tenders up to March 30th for erection of a Collegiate Institute building. Separate

tenders will also be received for heating, plumbing and wiring. Plans with Belcher & Heathcote, architects, this city.—Plans are being prepared for an addition to Lake street school.

NORTH BATTLEFORD, SASK.—The Town Council are now considering the report of Willis Chipman, C. E., of Toronto, in regard to the installation of a system of waterworks, sewerage and electric light, at an estimated cost of \$80,000.—Several by-laws dealing with local improvements, fire equipment and building of a town hall will shortly be submitted to the ratepayers. A local syndicate purpose erecting an up-to-date hotel here, to cost about \$20,000.

MONTREAL, QUE.—The Trades and Labor Council have acquired the old German Lutheran church and will remodel same.—The Mount Royal Spinning Co. have acquired twelve acres of land at Cote St. Paul on which five new buildings will be erected. The main building will be 350 x 128 ft. four storeys high and the rest of the buildings two storeys.—The parish of St. Leon have purchased property at Westmount 150 x 243 feet on which to erect a large school building.

HAMILTON, ONT.—Additions are to be made to the premises of the B. Greening Wire Co.—The following building permits have been issued: A. Green, two houses, Comox street, cost

\$13,300; G. Barber, Davie street, cost \$3,500; F. H. Hall, five frame houses, Sherman avenue, cost \$5,750; Spicer & Morrison, brick house and stable, Wellington street, cost \$3,200.—The Fire & Light Committee have decided to take new tenders for supply of hydrants.—W. A. Edwards has been appointed architect for the new east end fire station.—J. Bryers has taken out a building permit for two brick dwellings on Bristol street, cost \$4,000.

EDMONTON, ALTA.—The following building permits have been issued: K. Powell, two-storey frame store, cost \$5,000; D. Dicker, warehouse, cost \$3,800; D. W. McDonald, two-storey office building, cost \$6,000.—The International Gas Co., of Cleveland, Ohio, and the Northwestern Gas & Oil Company are both seeking a franchise from the City for the operation of a gas plant.—The plans drawn by Johnson & Lines, architects, this city for new hospital have been accepted by the board.—The City Engineer has recommended the purchase of a 600 k.w. gas engine.—The City Council are considering the purchase of a steam turbine engine.

LONDON, ONT.—It is expected that the Board of Education will ask authority to issue debentures for \$30,000 part of which will be expended for additions to St. George's school.—The erection of a new firehall has been decided upon

SEWER PIPE ECONOMY

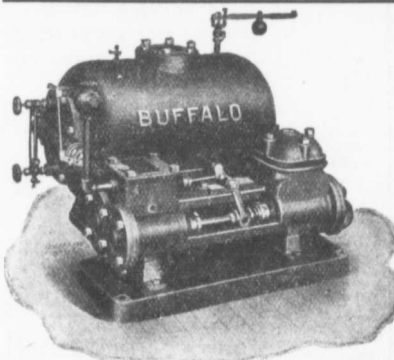
lies in getting the right article and getting it at the right price.

The only right article is our Steam Pressed Vitrified Salt Glazed Sewer Pipe. It is absolutely non-absorbant and once laid will last for ever.

The right price can be obtained for the asking at any of our offices.

THE CANADIAN SEWER PIPE CO.

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WRITER FIRE PUMPS,
HYDRAULIC PRESSURE
PUMPS, JET CONDENSERS.

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THE CANADIAN PORTLAND CEMENT CO., LIMITED

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Iron Pipe 1-8 in. to 12 in. carried in stock

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Unions Bushings Plugs Nipples

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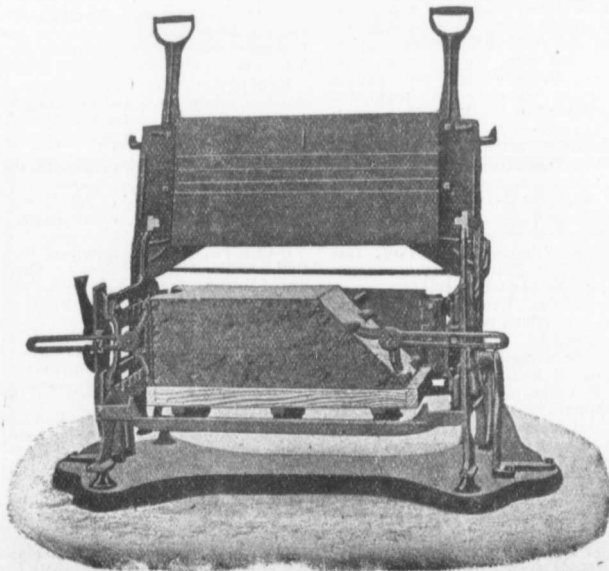
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THE MILES CONCRETE BUILDING BLOCK MACHINE

Makes 40 Different Sizes of Stone in Any Design, as well as the Specials, viz.:

Water Table, Gable, Circle, Angle, Chimney, Cornice, Pier Blocks, etc.

Catalogues and Information Cheerfully Furnished.



This Machine makes all blocks face down—"the only practical way"—allowing of a richer and finer facing, producing blocks that are perfect in appearance and impervious to moisture.

Let us tell you how the "Miles" will pay for itself over any other machine in three months' operation.

Manufactured and Sold by

**VINING BROS.
M'f'g. Co.**

Niagara Falls, - Can.

by the City Council, estimated cost of building and equipment \$8,000.—Building permits have been issued as follows: Mr. Hemsworth, story and a half brick house, 866 Van street; G. Roberts, four two-story brick veneer residences, Briscoe street and two two-story brick veneer residences, Ridout street.

WINNIPEG, MAN.—It is reported that the Great Northern Railway intend to erect shortly large shops and establish yards in this city, and that for this purpose they have purchased 1,500 acres of land at St. Boniface.—Barton & Holman, architects, will shortly take tenders for erection of a two-story brick and Roman stone factory, 80 x 30 feet, also a mill, 40 x 50 feet.—R. Evans, architect, has rejected tenders received for construction of three separate buildings owing to the high figures submitted.—The Consolidated Flour Mills Company will erect a large warehouse in this city.—Rivercomb & Mitchell, plumbers, intend erecting a new building.—A Norwegian Lutheran church is to be erected corner Simcoe and Livinia streets.—P. M. Clemens, architect, will shortly take tenders for erection of school for St. James parish.—Blair & Northwood, architects, have invited tenders for alterations and additions to a building on Higgins avenue.—Wardell & Nichols, architects, have invited tenders for erection of brick residence on Furley street for C. C. Hague.—H. B. Rugh, architect, wants tenders up to March 15th for erection of cement rough cast 2½-story residence for Prof. M. A. Parker.—V. W. Horwood, architect, wants tenders up to March 18th for erection of brick apartment block.—J. H. G. Russell, architect, is preparing plans for a brick and stone 3-story apartment block for J. Williams.

TORONTO, ONT.—G. W. Gounilock has been appointed architect for the new railway building to be erected at the Exhibition Grounds.—The Chairman Board of Control will receive tenders up to March 10th for construction of the following works: Asphalt pavements—Peter street, King to Queen streets. Bitulithic pavements—Grant street, Kintyre avenue to north end; Melville avenue, Shaw street 616 feet east; Dagmar avenue, Pape avenue 175 feet east of Brooklyn. Concrete sidewalks—Butler, Kippendavie to west end; Camden, Brant to Spadina; Camden, Brant to Spadina; Casimir, St. Patrick to north end; Dupont, Howland avenue to 177½ feet east; Grafton, Roncesvalles to Triller; Grafton, Roncesvalles to Triller; Henry, Cecil to College; Massey, King to Defoe; Markham, Queen to Robinson; Markham, Arthur to College; Morrison, Adelaide to south end; Metcalfe, Carlton to Winchester; Olive, Palmerston to Manning; Ontario, St. James to Harvard; Ossington, Dundas to College; Pape, Gerrard to Bain; Shaw, Melville to Dupont; Wellesley, Sherbourne to Ontario. Sewers—North Rosedale intercepting sewer. Plans and specifications with the City Engineer.—The City Health Officer is recommending the establishment of a crematory in the northern part of the city.—The Somerville Co. will shortly commence the erection of a building on Ashbridge's Bay marsh land 400x150 feet to cost \$40,000.—A new wing is to be added to the building of the Haven and Prison Gate Mission, cost \$11,300.—The Board of Education have decided not to erect a new technical school on corner of Bloor street and Brunswick avenue as intended, but will select a new site.—Gordon & Hellwell, architects, are taking tenders this week for additions to Wycliffe College.—The same firm will take tenders next week for erection of warehouse building.—L. Foulds, architect, will shortly take tenders for erection of three-

storey brick office building 25 x 50 feet on Dalhousie street, also for three-storey brick warehouse 50 x 100 feet on Wellington Street west to cost \$50,000.—The same architect is preparing plans for 15 brick dwellings to be erected on Queen street east; pair of three-storey brick dwellings to be erected on Nanton crescent, cost \$10,000; pair of two-storey brick dwellings to be erected on Shaw street, cost \$5,000, and two detached brick houses on Barnard avenue, cost \$10,000.—Darling & Pearson, architects, will shortly take tenders for erection of building corner of King and Jarvis streets for Canadian Bank of Commerce.—E. R. Bibbington, architect, is preparing plans for alterations to office building on Wellington street, cost \$8,000.—The same architect is this week taking tenders for erection of two-storey brick and concrete dairy building on Essex street for R. W. Dockeray, cost \$6,000.—The City Architect has issued the following building permits: L. C. Sheppard, two attached three-storey brick stores and dwellings, Parliament street, cost \$9,000; N. H. Brady, two detached two-storey brick dwellings, Galley avenue, cost \$6,400; Mr. Alexander, one two-storey and attic brick dwelling, 474 Givens street, cost \$3,000; C. W. Chadwick, three pair two-storey semi-detached brick veneer dwellings, Lansdowne avenue, cost \$11,000; H. V. Cowin, pair two-storey and attic semi-detached brick dwellings, Pape avenue, cost \$5,000; G. Rathbone, two-storey brick addition to dwelling, 20 Northcote avenue, cost \$4,000; M. S. Crocker, three attached two-storey brick dwellings, Ossington avenue, cost \$6,500; F. Hogg, pair two-storey and attic semi-detached brick dwellings, 46 48 Summerhill avenue, cost \$5,500; N. Robertson, two pair one and a half storey semi-detached brick dwellings, Westmoreland avenue, cost \$8,000; E. Browne, four attached one-storey stores, 154-160 Ossington avenue, cost \$3,000; W. Sundrey, pair two-storey semi-detached brick dwellings, Dundas street, cost \$3,000; G. Rennie, three pair two-storey semi-detached brick veneer dwellings, Manning and Olive avenues, cost \$10,000; W. V. Ecclestone, two and a half storey dwelling, Balmoral avenue, cost \$7,500; T. G. Armstrong, two-storey brick dwelling, 151 Wright avenue, cost \$3,000; J. A. Harvey, two-storey and attic brick dwelling, Rusholme road, cost \$6,000; T. Pennock, three attached three and a half storey brick dwellings, Arthur street, cost \$6,500; J. Holmes, pair two-storey and attic brick veneer semi-detached dwellings, West avenue, cost \$4,000; W. Stubbings, two and a half storey semi-detached brick and stone dwelling, Beatrice street, cost \$5,000; N. W. Blackwell, pair two-storey and attic brick and stone dwellings, Delaware avenue, cost \$5,400; F. J. Cummings, pair one-storey brick dwellings, semi-detached, Sinclair avenue, cost \$5,600; J. Orr, pair two-storey and attic semi-detached brick dwellings, Palmers' on Boulevard, cost \$7,500; W. B. Chamberlain, pair semi-detached and one detached, two storey brick dwellings, Emerson avenue, cost \$6,500; A. White, two and half storey brick dwelling, Bouted avenue, cost \$3,500; M. Simpson, two storey brick dwelling, McKenzie crescent, cost \$6,000; R. Locke, six attached, two storey brick stores and dwellings, Bloor street west, cost \$20,000; G. Henry, two storey and attic brick dwelling, 155 Rusholme road, cost \$5,000; M. Millichamp, two storey brick dwelling, Poplar Plains road, cost \$4,500; L. J. Madill, two storey and attic dwelling, Summerhill avenue, cost \$3,600; J. D. Farquhar, five attached two storey brick dwellings, Dennont place, cost \$9,000; T. J. Spar-

row, two pair semi-detached brick veneer, two storey dwellings 111-117 Westmoreland avenue, cost \$5,600; J. Grafton, pair two and a half storey semi-detached brick dwellings, Cottingham street, cost \$7,000; W. C. Seller, pair two storey semi-detached brick dwellings, Pearson avenue, cost \$5,000; E. Conner, pair two storey and attic semi-detached brick dwellings, Manning avenue, cost \$5,000; A. Burns, three attached two and a half storey brick stores and dwellings, Dundas street, cost \$10,000; A. A. Patterson, two storey brick dwelling 50 Boused avenue, cost \$3,000; R. McCauley, pair two storey and attic semi-detached brick dwellings Albany avenue, cost \$6,000.

CONTRACTS AWARDED.

REGINA, SASK.—Erection of brick warehouse for L. T. Wilkinson: Smith Bros. & Wilson, this city, contractors.

DUTTON, ONT.—\$5,000 4 per cent. debentures awarded to G. A. Stimson, Toronto, at 95.28 and accrued interest.

KENORA, ONT.—Erection of engine house for Canadian Pacific Railway: Kelly Bros. & Co. successful tenderers.

WALKERVILLE, ONT.—Erection of nine brick dwellings for Walkerville Land Co.: V. Williamson, this town, contractor.

FERNIE, B. C.—Erection of post office building for Dominion Government: McCallum & Co., Cranbrook, successful tenderers.

ST. MARY'S, ONT.—\$13,972.45 4 per cent. and \$9,964.17 4 per cent. debentures awarded to Mutual Life Insurance Society, Toronto.

ST. BONIFACE, MAN.—Erection of new post office building: J. & J. McDairmid Company, Winnipeg, contractors, cost \$20,255.

SASKATOON, SASK.—Erection of two-storey brick building for Gordon & Spurling: Neil Stewart, this town, contractor, cost \$16,000.

VANCOUVER, B. C.—Construction of wharf at site of new city market British Columbia General Contract Co. successful tenderers at \$26,455.—Construction of bridge over Seymour creek for municipality: Dominion Bridge Company, Montreal, successful tenderers at \$1,800.

PETERBORO, ONT.—Supply and installation of new electric fire alarm system for municipality: Bell Telephone Company, Montreal, successful tenderers.

BRANDON, MAN.—Installation of heating and plumbing systems in new Collegiate Institute: J. Ballantyne & Co., Winnipeg, successful tenderers at \$8,490.

MONTREAL, QUE.—Erection of seven storey stone and brick office building for J. Coristine Co.: C. E. Deakin, this city, contractor. H. C. Stone, this city, architect.

RONDEAU, ONT.—Construction of dock and approaches at Pondreau Park for Dominion Government: Blight, Fielder Co., Chatham, Ont., successful tenderers at \$5,583.

HAMILTON, ONT.—Supply of Portland cement for municipality: Owen Sound Portland Cement Company, Owen Sound, Ont., successful tenderers at \$1.87 per barrel.

TORONTO, ONT.—Supply of six locomotives for Temiskaming & Northern Ontario Railway: Montreal Locomotive Works, Montreal, successful tenderers at approximately \$125,000.

WINNIPEG, MAN.—Herbert E. Rugh, architect, this city, has let the following contracts for erection of residence for W. J. Bettinger, on Wellington crescent: cut stone, Oliver & Manson: hot water heating, Kelly; plumbing, Thomson & Homer.—J. D. Atchison, architect, has awarded contract for mason work in two-storey addition to McGreehey & Donovan block to J. Heslip & Co.

BIDS.

REGINA, SASK.—The following tenders were received for purchase of \$120,000 4½ per cent. 15 year and \$60,000 4½ per cent. 20 year debentures: A. E. Jarvis & Co., Toronto, \$170,688; Nay, Anderson & Co., Regina, \$171,103; National Trust Co., Toronto, \$172,035; Wood, Gundy & Co., Toronto, \$170,000.

Messrs. U. E. Mitchell, E. F. Surveyer, A. Chase-Casgrain, J. W. Weldon and S. J. Le Huray, all of Montreal, have been incorporated by the Dominion Government as the Colonial Engineering Company, Limited, with an authorized capital

of \$125,000. The company are empowered to carry on the business of electrical, mechanical and civil engineers and contractors, and the head office will be at Montreal.

FIRES.

Tenament house property of P. McCann, sr., St. John, N.B., totaly destroy. —Trout block, Meaford, Ont., totally destroyed.—Premises of Toronto Plate Glass Importing Co., Toronto, loss \$120,000.—Carnegie Library, Town Hall and Fire Hall, Sault Ste. Marie, Ont., loss \$36,000.

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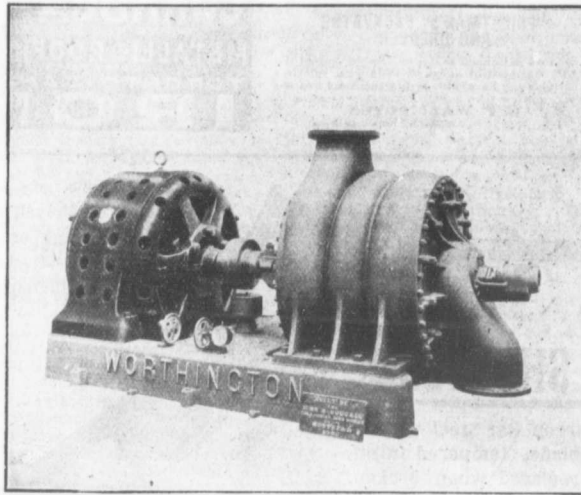
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MIDLAND, ONT.

THE TURBINE PUMP OF THE MONTREAL WATERWORKS.

There has recently been installed at the high-service pumping station of the Montreal waterworks on McTavish street a three-stage electrically driven turbine pump, having a

The water pumped during the first twelve hours amounted to 2,725,000 imp. gal. against an average pressure of 107.2 lb; during the second twelve hours 2,745,000 gal. were pumped against an average pressure of 106.3 lb. The average electric

charge of 3,700 imp. gal. it was 66½ per cent., and with a discharge of 4,000 imp. gal. 67 per cent. The rise of temperature of the motor did not exceed 30° Cent. A noticeable feature of the pump shown during the test was an increase in its efficiency from 65 per cent. when running at its rated capacity to close on 69 per cent. when running above its rating; in other words, when pumping at its most economical capacity it showed an efficiency of nearly 69 per cent. As there is a Venturi meter with recording register, as well as a complete set of electrical instruments, in commission on this service, it will be possible to keep a constant supervision of operation of this pumping equipment.



TURBINE PUMP OF THE MONTREAL WATERWORKS.

rated capacity of 5,000,000 imp. gal. per 24 hours against a total head of 110 lbs. The pump, built under the Worthington patents, was designed by Mr. William Clinton Brown, consulting engineer of the John McDougall Caledonian Iron Works, and was constructed entirely by them. It contains several novel features to eliminate noise and vibration, and a special thrust bearing which is stated by Mr. George Janin, superintendent of the Water Department, to be operating very satisfactorily. The pump is direct connected to a 400-h.p. Bullock motor running at 620 r. p. m. under full load and operated from a 2,200-volt, three-phase, 60-cycle current.

This unit was tested for 24 hours last September by Mr. L. A. Herdt, representing Mr. Janin, and Mr. Charles Lester for the makers. Calibrated ammeters, voltmeters and wattmeters were used to determine the current consumption, the amount of water was measured by a Venturi meter, the head of water was measured by a standard gauge and the temperature of the motor was determined by thermometers. Readings were taken every thirty minutes for the first six hours and every hour after that.

horse-power consumed during the test was 421 h.-p. for the first half and 421.3 h.-p. for the second half. The maximum power developed was 438.5 h.-p. when the pump was operating at a rate of over 5,800,000 imp. gal. per day.

The overall efficiency of the pump when delivering 3,500 imp. gal. per minute was 65 per cent., with a dis-

A charter under date of February 1st has been granted the Canadian Engineers, Limited, of Ottawa, Ont., a concern capitalized at \$40,000. The company has been formed to take over the practice formerly carried on by T. T. Simpson, C.E., and among those associated with Mr. Simpson are R. W. Farley, C.E., and S. J. Chapleau, C.E. Modern offices are being fitted up in the Brennan Building, where the company will act as engineers on all classes of work, giving special attention to hydro-electric developments.

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The Winnipeg City Council are at present considering the advisability of passing a by-law whereby no building will be allowed to exceed 120 feet in height unless special permission be granted by both the Building Inspector and City Council.

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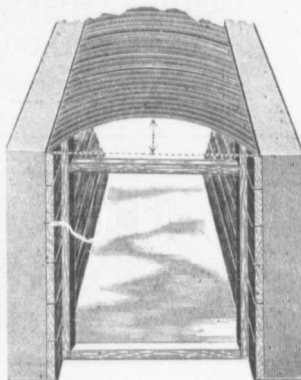
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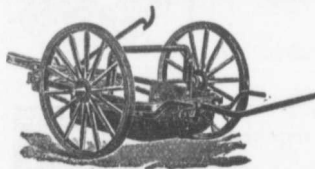
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NOTES.

The contractors of Winnipeg are complaining of the high price of all building material while the architects are refusing to allot tenders on account of their being priced too high.

The sub-building committee of the city of Winnipeg are preparing a new by-law which will contain 300 clauses, 98 of which are now complete. It is proposed to increase the building water rates 100 per cent, this increase will bring the rates on a par with those now in force in Montreal.

Edmonton, Alta., has during the past month established a record in building reports, the total amount of permits issued being \$366,390, an amount they have not equalled in any month during the past year. The total for February 1906 was \$56,920 showing an increase this year of \$300,470. The local building inspector is confident that this astonishing increase is only a beginning and estimates the yearly total for 1907 to reach at least \$500,000 against \$200,000 in 1906.

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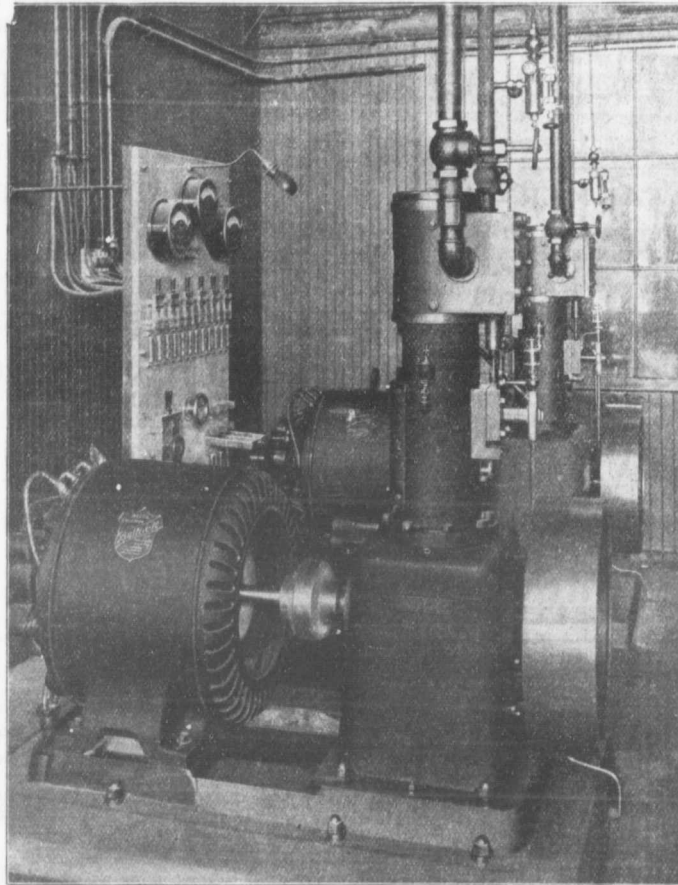








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D. Houle & Company, contractors, of Montreal, have dissolved partnership.

The Commercial Cement Company, Limited, Winnipeg, have completed their buildings, which are situated at Balcocks Spur, 70 miles south-west of Winnipeg, on the Carman branch of the Canadian Northern Railway. Most of the machinery which is being procured from Milwaukee is already installed, and it is expected that operations will begin shortly.

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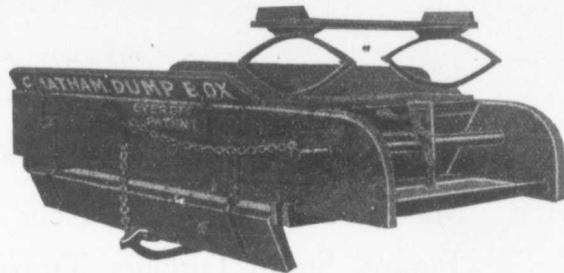
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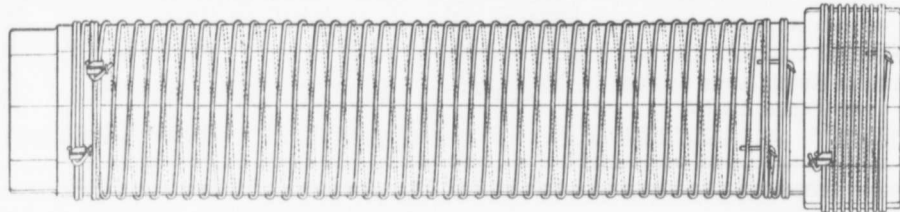
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CLASSIFIED INDEX OF ADVERTISERS

ACCIDENT INSURANCE Page
 Ontario Accident Insurance Co. 19

BLUE PRINTS
 Electric Blue Print Co. 9

BLOWERS
 Buffalo Forge Co. 4

BRIDGES (CONCRETE)
 Steel Concrete Co. 13

BRIDGES (STEEL)
 Canadian Bridge Co. 19
 Canada Foundry Co. 25
 Dominion Bridge Co. 13
 Jenks & Dresser. 20
 Phoenix Bridge and Iron Works. 13

CEMENT
 Alpena Portland Cement Co. 24
 Alsen Portland Cement Co. 18
 Baxter, Paterson & Co. 7
 Bremner, Alex. 13
 Canadian Portland Cement Co. 4
 Currie & Co., W. & F. P. 24
 DeSola, C. I. 9
 Gray & Bruce Portland Cement Co. 24
 Hyde & Co., F. 22
 Hanover Portland Cement Co. 16
 Lakefield Portland Cement Co. 16
 McNally & Co., W. 12
 Morrison & Co., T. A. 20
 National Portland Cement Co. 17
 Owen Sound Portland Cement Co. 23
 Ontario Portland Cement Co. 20
 Raven Lake Portland Cement Co. 18
 Stinson-Reeb Builders' Supply Co. 22
 Toronto Pottery Co. 22
 Thorn Cement Co. 16

CONTRACTORS' SURETY BONDS
 United States Fidelity & Guaranty Co. 21

CONCRETE MIXERS AND MACHINERY
 Baxter, Paterson & Co. 7
 Dartnell, E. F. 10
 Hopkins & Co., F. H. 26
 Ideal Concrete Machinery Co. 17
 London Concrete Machinery Co. 16
 Mussels Limited. 3
 Morrison & Co., T. A. 20
 Toronto Pressed Steel Co. 9
 Vining Bros. Mfg. Co. 5

CONTRACTORS' PLANT
 Allis-Chalmers-Bullock. 11
 Beatty & Sons, M. 22
 Canada Foundry Co. 25
 Hopkins & Co., F. H. 26
 Locomotive & Machine Co. 13
 Mussels Limited. 3
 Peat & Sons, James. 16
 Toronto Pressed Steel Co. 9
 Wallington, G. P. 7

CONCRETE CONSTRUCTION
 Ambursen Hydraulic Construction Co. 9
 Baxter, Paterson & Co. 7
 Concrete Engineering & Construction Co. 8
 Loignen, A. & E. 8
 Steel Concrete Co. 13

CONTRACTORS' EMPLOYMENT BUREAUS
 North Western Employment Agency. 23
 Reliance Labor Exchange. 3
 Zarossi, Banco. 16

CORRUGATED IRON
 Metallic Roofing Co. 5
 Pedlar People. 22

CRUSHERS (STONE AND ROCK)
 Allis-Chalmers-Bullock. 11
 Beatty & Sons, M. 22
 Canada Foundry Co. 25
 Dartnell, E. F. 10
 Hopkins & Co., F. H. 26
 Mussels Limited. 3
 Morrison & Co. T. A. 20
 Sawyer & Massey Co. 20

DRILLING CONTRACTORS Page
 Harvey, J. 24
 Peat & Sons, James. 16

DUMP WAGONS
 Chatham Wagon Co. 12

DEBENTURES
 Nay, Anderson & Co. 22
 Stimson & Co., G. A. 21

ENGINEERS AND CONTRACTORS
 British Columbia General Contract Co. 25
 Canadian White Co. 12

ENGINEERS (CIVIL)
 Chipman, Willis. 23
 Connor, Clarke & Monds. 23
 Davidson, Shirley. 21
 Davis, Johnston. 13
 Fenson, C. J. 19
 Fielding, John S. 8, 9
 Galt, John. 9
 Jackson, John H. 23
 Lea & Coffin. 23
 Leofred, A. 10
 McConnell, Brian D. 24
 McDougall & McRae. 9
 Parke, Roderick J. 23
 Scott, Wm. Fry. 21
 Simpson, T. T. 21

ENGINEERS (MECHANICAL)
 Farmer, John T. 12
 Galt, John. 9

ENGINES
 Allis-Chalmers-Bullock. 11
 Cameron & Co., Hugh. 20
 Sawyer & Massey Co. 20

ELECTRICAL APPARATUS AND SUPPLIES
 Allis-Chalmers-Bullock. 11
 Canadian Gen. Elec. Co. 25
 Drummond, McCall & Co. 18
 Northern Electric & Mfg. Co.

FIRE BRICKS
 Baxter, Paterson & Co. 7

FIRE APPARATUS
 Cameron & Co., Hugh. 20
 Meadows, George B., Toronto Wire, Iron & Brass Works Co. 18
 McGregor & McIntyre. 9
 Seagrave, W. E., Walkerville, Ont. 20

HOISTING MACHINERY
 Allis-Chalmers-Bullock. 11
 Beatty & Sons, M. 22
 Canada Foundry Co. 25
 Georgain Bay Engineering Works. 7
 Hood & Sons, Wm. 19
 Hopkins & Co., F. H. 26
 Mussels Limited. 3
 Rogers Mfg. Co. 24

HYDRANTS
 Canada Foundry Co. 22
 Canadian Fairbanks Co. 24
 Canadian Iron & Foundry Co. 14
 Gartshore-Thomson Pipe & Foundry Co. 18
 Kerr Engine Co. 10
 McDougall Co., R. 21

LOCOMOTIVES AND RAILS
 Canada Foundry Co. 25
 Gartshore, John J. 19
 Hopkins & Co. 26
 Locomotive & Machine Co. 13
 Mussen Limited. 3
 Sessenwein Bros. 9

PLASTER BOARDS
 P. W. St. George. 24

PILE DRIVING
 Hood & Sons, Wm. 19
 Russell, John E. 19

PAVING AND PAVING MATERIALS
 Baxter, Paterson & Co. 7
 Brunet, Joseph. 13
 Forest City Paving Co. 23
 Ontario Asphalt Block Co. 23
 Silica Barytic Stone Co. of Ontario. 13

PIPE (CAST IRON) Page
 Baxter, Paterson & Co. 7
 Canada Foundry Co. 25
 Gartshore-Thomson Pipe and Foundry Co. 18
 Gaudry & Co., L. H. 9
 Canadian Iron & Foundry Co. 14

PIPE (WOODEN)
 Canadian Pipe Co. 14
 Dominion Pipe Co. 14
 Pacific Coast Pipe Co. 14

PLUMBERS' SUPPLIES
 Somerville Limited. 5

PUMPS AND PUMPING MACHINERY
 Allis-Chalmers-Bullock. 11
 Canadian Buffalo Forge Co. 4
 Canadian Fairbanks Co. 24
 Canada Foundry Co. 25
 Drummond, McCall & Co. 18
 Mussels Limited. 3
 McDougall Caledonian Iron Works Co., John. 19

ROAD MACHINERY
 Cameron & Co., Hugh. 20
 Climax Road Machine Co. 9
 Heaman, George. 25
 Morrison & Co., T. A. 20
 Mussels Limited. 3
 Sawyer & Massey Co. 20

ROCK DRILLS
 Allis-Chalmers-Bullock. 11

ROPE
 Allan, Whyte & Co. 21
 Dominion Wire Rope Co. 26
 Greening Wire Co., B. 21

STEEL BARS (CORRUGATED)
 Corrugated Steel Bar Co. of Canada. 20

STRUCTURAL IRON AND STEEL
 Baxter, Paterson & Co. 7
 Canada Foundry Co. 25
 Dominion Bridge Co. 13
 Jenks & Dresser. 20
 Locomotive & Machine Co. 13
 McGregor & McIntyre. 9
 Phoenix Bridge & Iron Works. 13

STONE
 Crushed Stone, Limited. 14
 Doolittle & Wilcox. 21
 Rogers Supply Co. 8

SHOVELS (STEAM)
 Allis-Chalmers-Bullock. 11
 Beatty & Sons, M. 22
 Canada Foundry Co. 25
 Hopkins & Co., F. H. 26
 Locomotive & Machine Co. 13
 Mussels Limited. 3

SEWER PIPE
 Bremner, Alex. 13
 Canadian Sewer Pipe Co. 4
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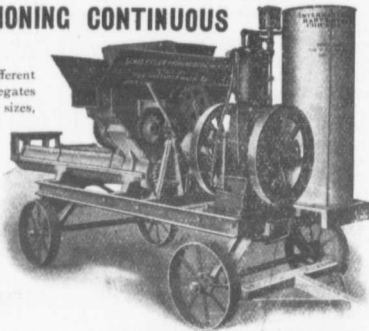
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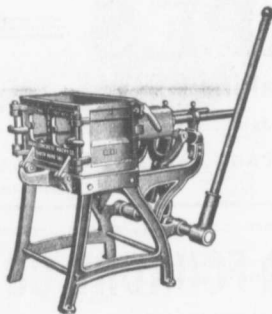
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BY

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|-------|--------------------|--------------------------|------------------|----------------------------------|-------------------------|-------|---|--------|---------|-------|------|------------------------|--------|---------|-------|-------|
| | | | | | Initial | Final | Neat. | | | | | 3 (Sand) to 1 (Cement) | | | | |
| | | | | | | | 1 dy. | 7 d. s | 28 d. s | 3 mos | 1 yr | 1 dy. | 7 d. s | 28 d. s | 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 | 96 | 262 | 354 | 401 | 427 |

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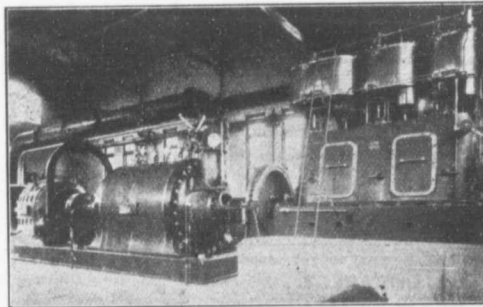
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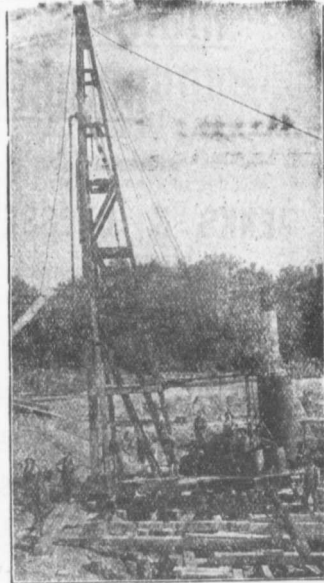
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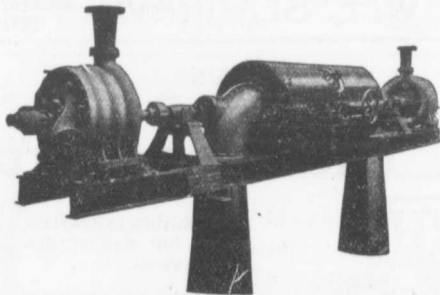
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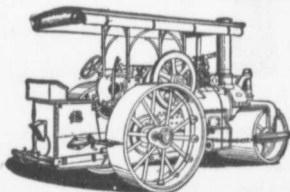
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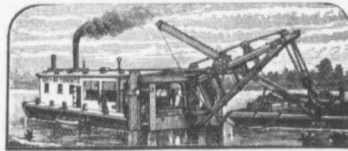
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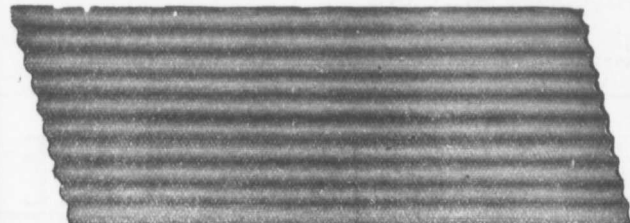
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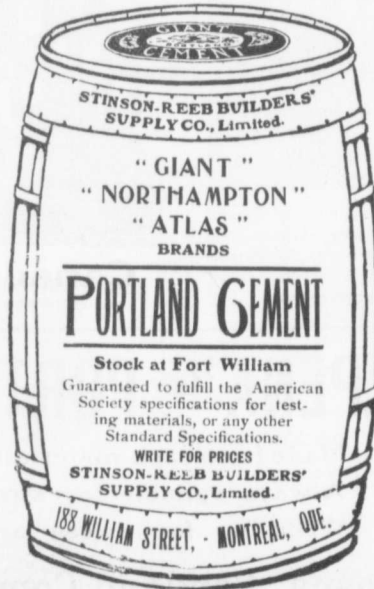
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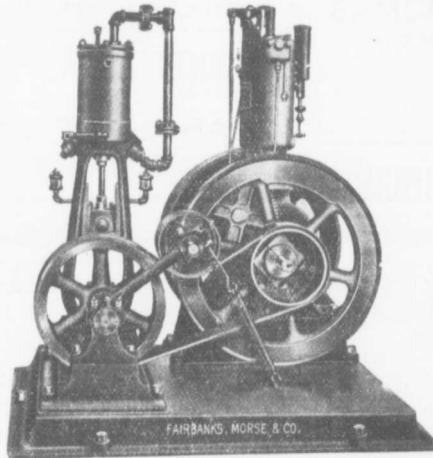
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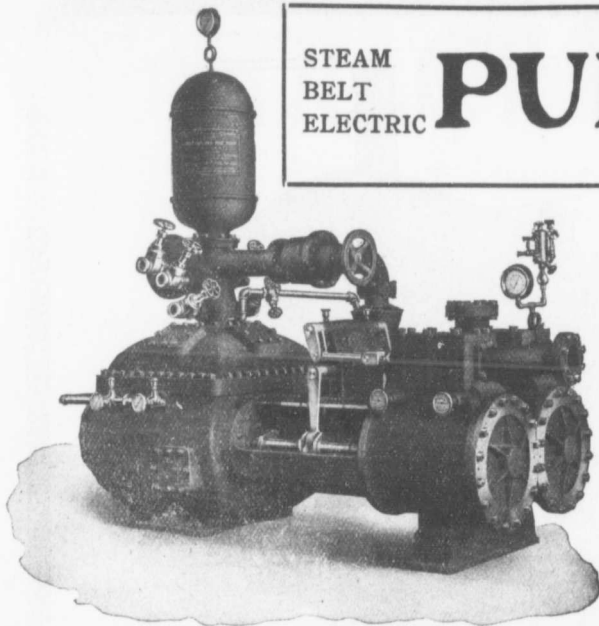
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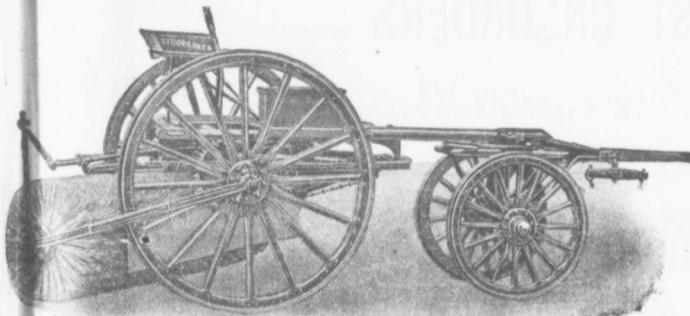
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