

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.

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THE CANADIAN CONTRACT RECORD

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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.

To Contractors

For Sale—Twenty Slush Scrapers, Ten Wheel Scrapers, and Three Rooter Ploughs, nearly new
Apply

R. A. ROGERS & CO.,
49 Yonge Street Arcade, Toronto.

TENDERS FOR STEEL BRIDGES

Tenders addressed to the undersigned will be received up to noon **APRIL 22ND**, for the erection of one 90-ft. Span Steel Bridge over the Teeswater river, Concession 6 Greenock, also one 100-ft. span over the Teeswater river, Concession 14 Greenock, bridges to be of sufficient strength to carry concrete floors.

Also tenders per cubic yard for concrete work for abutments for said bridges.
Parties tendering for steel work to submit plans of same. Specifications for concrete work may be seen at Post Office, Pinkerton.

All tenders to be accompanied by an accepted cheque for the amount of 10 per cent. of tender.
J. J. DONNELLY,
Clerk, Township of Greenock, Pinkerton, P.O.

WANTED

A competent Architectural Draughtsman. Will pay high salary with permanent position to the right man.

S. E. CURRY,
90 Yonge St., Toronto.

WANTED

First-class all round Architectural Draughtsman. Apply, stating salary. **ELLIS & CONNERY**, 209 Manning Chambers, Toronto.

WANTED

Architectural Draughtsman as assistant in general office work. State salary desired. Apply **Box 107 CONTRACT RECORD, Toronto.**

TOWN OF THOROLD PROVINCE OF ONTARIO

WATER WORKS

Sealed tenders will be received by the Town Clerk of Thorold until 8 p. m. on

TUESDAY, APRIL 23, 1907

for the furnishing of all materials for, and constructing a System of Water Works for the Town of Thorold, comprising pipe-laying, water pipes, hydraulic pumping machinery, powerhouse, water tower, sedimentation basin, etc.

Plans, specifications, etc., may be seen at the office of the Chief Engineer, 103 Bay Street, Toronto, Ont., or at the office of the Town Clerk, Thorold, on and after March 30th, 1907.

No tender necessarily accepted.
D. E. MILLAR, Esq., Mayor, Thorold, Ont.
D. J. C. MUNRO, Esq., Town Clerk, Thorold, Ont.
WILLIS CHIPMAN, C. E., Chief Engineer, 103 Bay Street, Toronto, Ont.

Town of Maple Creek, Sask.

TENDERS FOR WATER WORKS

Contract "A"—All labor and materials for constructing the Supply Main, Intake Chamber and Collecting Pipes.

Contract "B"—All labor and materials for constructing and Distribution System.

Contract "C"—All labor and materials for constructing a Reinforced Storage and Compensating Reservoir.

Sealed Tenders will be received by the Town Clerk until 5 p. m. on **SATURDAY, APRIL 20TH, 1907.**

Tenders will be received for any of the above mentioned contracts for labor alone, or materials alone, for the total labor and material covering the three contracts.

Plans and specifications may be seen and forms of tender obtained at the office of the Town Clerk or at the head office of the Chief Engineers.

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

ARTHUR BURNETT, Esq.,
W. R. ABBOTT, Esq.,
Mayor, Town Clerk.

GALT & SMITH, Chief Engineers,
21 Jordan Street, Toronto.

An architect with a good practice desiring to be relieved of office work is prepared to take a young and energetic man into partnership. Apply to Box 106, **CONTRACT RECORD, Toronto.**

Tenders Wanted

Sealed tenders will be received up to Six o'clock, **TUESDAY, APRIL 23RD**, for all the trades required in the erection of a Four Room Separate School Building in the town of Collingwood.

Plans and specifications can be seen at the office of the undersigned.

The lowest or any tender not necessarily accepted.
JOHN WILSON, Architect.
Collingwood, April 2nd, 1907.

Tenders Wanted

Tenders addressed to the undersigned will be received up to **SATURDAY, APRIL 20TH**, for the different trades required in the erection of a four storey Bank and Office Building to be built in the town of Fort William for J. Y. & F. M. Griffin. Plans and specifications can be seen at office of N. R. DARRACH, Architect, St. Thomas, Ont.; also at the office of J. C. Stinson, Architect, Fort William, Ont.

The lowest or any tender not necessarily accepted.
N. R. DARRACH, Architect.
St. Thomas, Ont.

CITY OF GUELPH

Tenders for Cement

The City Clerk will receive Sealed Tenders marked "Tenders for Cement" up to 5 o'clock p.m., on **FRIDAY, APRIL 12TH, 1907**, for the supply of up to 5,000 barrels of cement, more or less.

Specification and form of tender can be had on application to the City Engineer.

The lowest or any tender not necessarily accepted.
JAMES G. LINDSAY, RICHARD MITCHELL,
City Engineer. City Clerk.

CITY OF GUELPH

TENDERS FOR SEWER PIPE

The City Clerk will receive Sealed Tenders marked "Tenders for Sewer Pipe" on behalf of the Corporation of the City of Guelph, up to and inclusive of **THURSDAY, 18TH APRIL, 1907**, until 5 o'clock p.m., for the supply of Sewer Pipe and Specials for the season's work.

Specification and form of tender may be had on application to the City Engineer.

The lowest or any tender not necessarily accepted.
JAMES G. LINDSAY, RICHARD MITCHELL,
City Engineer. City Clerk.

[FOR ADDITIONAL ADVERTISEMENTS FOR TENDERS SEE NEXT PAGE]

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TOWN OF SIMCOE
PROVINCE OF ONTARIO

WATER WORKS

Sealed tenders will be received by the Town Clerk of Simcoe, until 8 p. m. on

FRIDAY, APRIL 19TH, 1907,

for the following works:—

- (a) Contract "C" Steel Water Tower.
- " " "D" Cast Iron Pipes and Specials about 500 tons.
- " " "E" Fire Hydrants, Gate Valves, etc.
- " " "G" Two Power Pumps.
- " " "H" Two Gas Engines, each 50 h. p.

Tenders will shortly be called for pipe-laying, power-house, etc.

Plans, specifications, etc., may be seen at the office of the Chief Engineer, 103 Bay Street, Toronto, Ont., or at the office of the Town Clerk, Simcoe, on and after March 27th, 1907.

No tender necessarily accepted.

H. A. CARTER, Esq., Mayor, Simcoe, Ont.
W. C. McCALL, Esq., Town Clerk, Simcoe, Ont.
WILLIS CHIPMAN, C. E., Chief Engineer, 103 Bay Street, Toronto.

TOWN OF BRAMPTON
PROVINCE OF ONTARIO

SEWERAGE WORKS

Sealed tenders will be received by the Chairman of the Sewerage Committee until 8 p. m. on

TUESDAY, APRIL 30TH, 1907,

for the furnishing of all materials and labor for a system of sewers for the Town of Brampton.

Plans, specifications, etc., may be seen at the office of the Chief Engineer, 103 Bay Street, Toronto, Ont., or at the Town Hall, Brampton, on and after March 30th, 1907.

No tender necessarily accepted.

W. E. MILNER, Esq., Mayor of Brampton.
T. J. BLAIN, Esq., Town Clerk, Brampton.
B. F. JUSTIN, Esq., Chairman Sewerage Committee, Brampton.
WILLIS CHIPMAN, Chief Engineer, 103 Bay Street, Toronto, Ont.

CALGARY, ALBERTA

**Architectural Competition
for City Hall and Police
Headquarters**

Competitive plans and specifications are invited for City Hall and Police Headquarters to be erected for the City of Calgary.

The author of the accepted design will be awarded a premium of \$750.00 and the second \$500.00. Drawings and plans will be received not later than 12 o'clock noon on the 1ST DAY OF MAY NEXT, and are to be addressed to S. J. Clerks, Esq., Chairman of Public Works Committee, and endorsed "Plans for City Hall."

This competition is open to Canadian architects only.

Conditions of competition stating requirements of building, and plan showing site, etc., may be had on application at the City Engineer's office, Calgary, Alberta.

R. E. SPEAKMAN,
City Engineer.

City Engineer's Office, Calgary, March 18th, 1907.

TENDERS

will be received by the undersigned up to APRIL THE 19TH for the Decoration of a Church at Eden Mills. The lowest or any tender not necessarily accepted.

L. C. WIDEMAN, Architect,
Guelph, Ont.

TO CONTRACTORS

Eighteen miles of first-class station work, Muekeg, and number of sub-contracts from five to ten miles each, for which we will pay the highest prices. The above are on the Temiskaming & Northern Ontario Railway, between MacDougall Chutes (via Englehart) and the junction of the Grand Trunk Pacific Railway. McRae, Chandler & McNeil, MacDougall Chutes, via Englehart, Ont.

City of Stratford

Sealed Tenders, addressed to H. Pauli, Chairman of Board of Works, and endorsed "Tenders for Concrete Walks," will be received up to 12 o'clock noon APRIL 24TH, for the construction of approximately 70,000 square feet of concrete walk.

Specifications may be seen at the City Engineer's office, and forms of tender obtained on application. Each tender must be accompanied by a marked cheque payable to the City Treasurer for the amount called for in form of tender.

The lowest or any tender not necessarily accepted.

W. R. W. PARSONS,
City Engineer.

CITY OF BRANTFORD

**TENDERS FOR
Sewer Pipe, Paving
Brick and Lumber**

Sealed tenders, addressed to Samuel Suddaby, Esq., Chairman of the Board of Works, in care of the City Clerk, Brantford, Ont., will be received till 12 o'clock noon on

THURSDAY, APRIL 18TH, 1907,

for the supply of Sewer Pipe, Paving Brick and Lumber required by the city of Brantford for 1907. Instructions to bidders and Forms of Tender may be obtained on application to the City Engineer. Each tender must be accompanied by a marked cheque payable to the order of the City Treasurer for the amount called for in Form of Tender. The lowest or any tender not necessarily accepted.

T. HARRY JONES, City Engineer.
City Hall, Brantford, April 2nd, 1907.

TOWN OF MAPLE CREEK
Province of Saskatchewan

DEBENTURES FOR SALE

Sealed tenders will be received up to 8 p. m. of SATURDAY, THE 20TH APRIL, 1907, for the purchase of the following debentures of the Town of Maple Creek, amounting in all to the sum of Sixty Thousand (\$60,000.00) Dollars, spread over a period of thirty years, dated from the time of issue, bearing interest at 5 per cent., each debenture bond being for the sum of Two Thousand (\$2,000.00) Dollars, and one being redeemable annually with interest, said debentures being issued for the installation of a Water Works System for said Town under By-Law No. 35 of said Town and being secured, in addition to the liability of the Municipality of Maple Creek, thereunder by the system of waterworks to be installed.

For further details apply to the undersigned. The highest or any tender not necessarily accepted.

I. C. DIXON,
Chairman Finance Committee, Town of Maple Creek.

TENDERS

**FOR THE CONSTRUCTION OF A
SEWER SYSTEM**

Sealed tenders will be received by the undersigned up to 4 p. m. on APRIL 30TH, 1907, for the construction of a Sewer System in the City of Fernie according to plans and specifications on file in the office of the City Clerk, Fernie, B.C. Tenders to be accompanied by a marked cheque or draft payable to the order of the City Treasurer, or a cash deposit for 5 per cent. of the amount of the tender, which will be subject to forfeiture in case of failure on the part of the contractor to enter into a written contract with approved sureties it called upon to do so. The deposit of unsuccessful tenderers will be returned when the contract is signed.

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

J. W. NUNN,
City Clerk.
Fernie, B.C., March 15th, 1907.

STONE CRUSHER WANTED

Capacity about one hundred yards per day; must be in first-class order. ALEX. HARVEY, London.

CITY OF BRANTFORD

CEMENT CONCRETE SIDEWALKS

Sealed tenders, addressed to Samuel Suddaby, Esq., Chairman of the Board of Works, in care of the City Clerk, Brantford, Ont., will be received till 12 o'clock noon on

THURSDAY, APRIL 18TH.

for the construction of about 50,000 square feet of Cement Concrete Sidewalks.

Plans and specifications may be seen at the office of the City Engineer, from whom Instruction to Bidders and Forms of Tender may be received. No tender necessarily accepted.

T. HARRY JONES,
City Engineer.

City Hall, Brantford, April 9th, 1907.

BRANDON WATERWORKS

Tenders for G. I. Pipe

Sealed tenders addressed to Mr. G. R. Coldwell, Chairman of Water Works Committee and endorsed "Tender for Pipe," will be received by the undersigned until 4 o'clock p. m., of MONDAY, MAY 6TH, 1907, for supplying about 84 tons of 6 and 8 inch C.I. Pipe and Specials. Specification and form of tender may be obtained on application to W. H. Shillinglaw, City Engineer, Brandon, Man.

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

HARRY BROWN,
City Clerk.

Brandon, Man., April 4th, 1907.

Town of Oakville

CONCRETE CEMENT SIDEWALKS

The Town Clerk will receive tenders, marked "Tenders for Sidewalks," up to 3 o'clock p. m. of MONDAY, APRIL 22ND, 1907, for the construction of Concrete Cement Sidewalks, with facings of 6 to 12 inches as required, all within the Town of Oakville. Tenders to state price per square foot of Sidewalk.

Specifications may be seen at the office of the Town Clerk.

EDGAR BRAY,
Town Clerk.

CONTRACTS OPEN.

PUGWASH, N.S.—D. D. Woodlock will erect a brick hotel here.

HAGUE, SASK.—G. Clark will erect a two-storey frame block 26 x 110 ft.

KEMPTVILLE, ONT.—The congregation of St. James church will erect a new church to cost \$4,000.

COBALT, ONT.—The Town Council are considering the erection of a hospital building.

ALAMEDA, SASK.—The Prairie Milling Co. will erect a grist mill here to cost \$50,000.

BROCKVILLE, ONT.—The Town Council are considering the erection of a new fire hall.

HOLDEN, ALTA.—Mr. Shipley, of Vegreville, will erect an hotel here at a cost of \$5,000.

PARIS, ONT.—The Board of Education will have plans prepared for a new school building.

SEBRINGVILLE, ONT.—The Downie Township Council have decided to purchase a stone crusher.

SIMCOE, ONT.—The Dominion Government will shortly call for tenders for erection of a public building in this town.

FERGUS, ONT.—The Town Council will probably retain a civil engineer in connection with their waterworks system.

HALIFAX, N. S.—The City Council are preparing a by-law to borrow \$100,000 with which to improve the city water supply.

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BEAVERTON, ONT.—The Village of Beaverton and Township of Thorah will jointly erect a town hall here to cost \$10,000.

LETHBRIDGE, ALTA.—The Rector of Knox church has left for Winnipeg to have plans prepared for a new church to cost \$20,000.

STRATHCLAIR, MAN.—Barton & Holman, architects, Winnipeg, are calling for tenders for a brick veneer hotel to be erected here.

SELKIRK, MAN.—The Winnipeg, Selkirk & Lake Winnipeg Railway will shortly commence the erection of a power house here.

WALKERVILLE, ONT.—The Standard Chain Co., of Pittsburg, are negotiating for the purchase of a site on which to erect a factory.

FREDERICTON, N.B.—It is understood that the Provincial Government will construct a new bridge at the mouth of the St. John river.

TILLSONBURG, ONT.—The W. H. Wilson Co. are having plans prepared for the rebuilding of their factory, which was recently damaged by fire.

WESTON, ONT.—E. R. Babington, architect, Toronto, is preparing plans for a brick and stone factory for the Sanitary Packing Co., cost \$18,000.

NEEPAWA, MAN.—A new fire hall is to be erected in this village.—The Village Council will endeavor to obtain a supply of water from Park Lake.

BRUSSELS, ONT.—The ratepayers have carried a by law authorizing the erection of a Carnegie library building.—A new fire hall is also to be erected.

KENORA, ONT.—It is probable that the ratepayers will shortly vote on a by-law providing for the erection of a new High school building to cost \$26,000.

COLLINGWOOD, ONT.—J. Wilson, architect, will receive tenders up to April 23rd for erection of four roomed school building. Plans at office of architect.

ST. MARY'S, ONT.—By-laws providing for a loan of \$6,000 to Wier & Wier and bonus of \$5,000 to Straus & Roos have been defeated by the ratepayers.

WALKERTON, ONT.—J. P. Klempf will receive tenders up to April 20th for erection of an addition to the Lutheran church. Plans at Royal Hotel.

RATHWELL, MAN.—A deputation from this town recently waited on the Provincial Parliament with reference to the construction of a waterworks system.

BATH, N.B.—A deputation will shortly wait on the New Brunswick Government agitating the construction of a bridge over the St. John river at this point.

PORTAGE LA PRAIRIE, MAN.—F. W. Clayton, City Clerk, wants tenders up to April 30th for laying of house sewer connections. Plans at City Engineer's office.

PORT ARTHUR, ONT.—The City

Council are about to consider the question of erecting a new police station.—Mr. McKinnon will erect a three storey block 30 x 125 feet.

ST. THOMAS, ONT.—N. R. Darach, architect, wants tenders up to April 20th for erection of brick school house in Yarmouth Township. Plans at architect's office.

PAISLEY, ONT.—It is reported that the Bruce County Council will replace the bridge on the Saugeen river at Denny's dam with a new structure to cost \$15,000.

EAST TORONTO, ONT.—The Arcadia Lodge are considering the erection of a building.—The Town Council are considering the lowering of a number of water mains.

REGINA, SASK.—L. L. Kramer, secretary Catholic Separate School, District No. 13, will receive tenders up to April 17th for purchase of \$35,000 5 per cent. 30 year school debentures.

CAMPBELLFORD, ONT.—The congregation of the Methodist church have rejected the tenders received for erection of new building, and for the present will not take any steps in the matter.

ROSTHERN, SASK.—The ratepayers will shortly vote on a by-law to erect a new town hall at a cost of \$15,000.—The Union Supply Co. intend erecting a two storey brick block to cost \$18,000.

THREE RIVERS, QUE.—A by-law will shortly be submitted to the ratepayers providing for the granting of a bonus of \$75,000 to the Wabasso Cotton Co. who will establish a large plant in this city.

NIAGARA FALLS, ONT.—G. E. Will will erect a residence on Ryerson street.—J. Logan will erect a three storey brick block 27 x 90 feet.—W. L. Doran will erect a three storey brick factory 40 x 80 feet.

GLAMIS, ONT.—The Greenoch Township Council have decided to construct two steel bridges with concrete abutments over the Teeswater. Tenders for superstructures will be received up to April 22nd.

QUEBEC, QUE.—W. D. Baillairge, City Engineer, wants tenders up to April 17th for supply of broken stone, macadam,

stone curbing and other municipal supplies, also for construction of stone and brick pavements.

GUELPH, ONT.—The Dominion Government have decided to erect an additional storey to the Guelph Armoury.—L. C. Wideman, architect, is asking for tenders for erection of an addition to the Guelph Axle Works.

BRANTFORD, ONT.—S. Suddaby, Chairman Board of Works, will receive tenders up to April 18th for supply of sewer pipe, paving brick, special castings and lumber for the city. Information at office of City Engineer.

ORILLIA, ONT.—The Town Council have instructed the Board of Works to engage a consulting engineer to prepare plans for a sewerage system.—The Town Council have decided to enlarge the capacity of the reservoir.

BERLIN, ONT.—The by-law providing for the purchase of the Berlin & Waterloo street railway system by the city has been carried by the ratepayers. The purchase price is \$75,200 and debentures for this amount will be issued shortly.

BELLEVILLE, ONT.—F. Gelinas, Department of Public Works, Ottawa, will receive tenders up to April 24th for erection of drill hall in this city. Plans at office of W. R. Aylesworth, C.E., this city, and Department of Public Works, Ottawa.

ST. ANDREWS, N.B.—Application has been made to the Provincial Government by the Town Council for permission to issue debentures as follows: \$15,000 for an electric lighting system, \$5,000 for sewers and \$20,000 for improvements to the harbor.

FORT WILLIAM, ONT.—The Canadian Pacific Railway have intimated that they will construct a bridge over the Kaministiquia river at a cost of \$200,000.—The same company are considering the erection of a large hotel, car shops and other buildings.

TRACADIE, B. C.—F. Gelinas, Secretary Department of Public Works, Ottawa, wants tenders up to April 21st for construction of laundry building and septic tank. Plans with Dr. A. C. Smith, this village, and Department of Public Works, Ottawa.

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Those requiring sewer pipe should see that they get the best. It is the cheapest in the end.

We manufacture the best and cheapest. It is steam pressed, salt glazed, vitrified, absolutely non absorbant and once laid will last forever.

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HAMILTON, ONT. TORONTO, ONT. ST. JOHNS, QUE.



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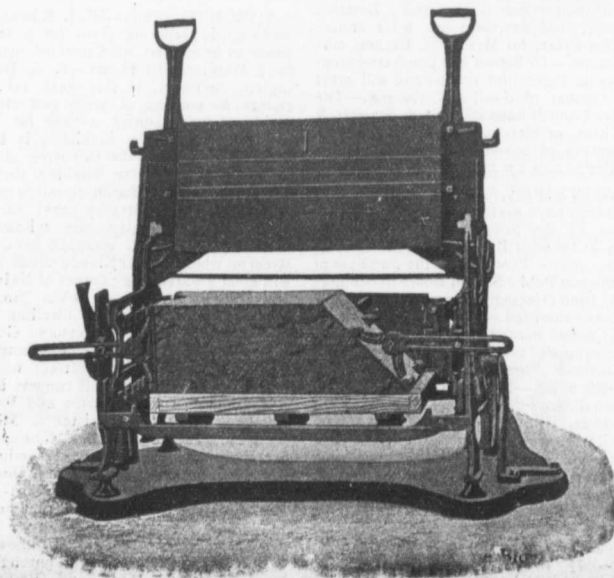
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M'fg. Co.
 Niagara Falls, - Can.
 Sales Agent for Quebec:
 T. A. CHADBURN, 242 St. James Street,
 MONTREAL.

BRANDON, MAN.—The City Council are considering the issuing debentures as follows: \$4,500, fire alarm service; \$4,500, new ladder; \$2,500, chemical wagon.

VICTORIA, B. C.—W. Oliphant, of Regina, has had plans prepared for four residences to cost \$20,000.—The City Council are considering the purchase of a rock crusher and concrete mixer—Work will shortly commence on the erection of the factory at Anacortes for the Puget Sound Wood Products Co.

MACLEOD, ALTA.—Hodgson & Bates, architects, Calgary, have completed plans for the Struthers Block to be erected here. The building will be constructed with concrete blocks, 66 x 99 feet, and is estimated to cost \$30,000.—Reach & Co., who were recently burnt out, will erect a large brick and stone block on Main street.

STRATFORD, ONT.—T. J. Hepburn, architect, has prepared plans for a two-storey concrete factory 100 x 50 feet for the Anchor Wire Fence Co. The same architect, has prepared plans for an additional storey to be erected to the factory of the Avon Hosiery Co.—Merritt & Co. will erect a stove mill 44 x 70 feet and other buildings.

TORONTO JUNCTION, ONT.—Dr. Perfect will erect a residence corner of High Park avenue and Annette street.—The Grand Trunk Railway will erect a new station.—Building permits have been issued to F. Bemrose for four two and a half storey dwellings, to cost \$9,600, and Mr. McDonald for a two and a half storey dwelling, to cost \$2,700.

ST. JOHN, N. B.—L. P. D. Tilley will receive tenders up to April 16th for erection of new Y.M.C.A. building. Plans at office of architect, G. E. Fairweather.—It is understood that McKenzie & Mann will accept the terms offered by the New Brunswick Government to construct a railway in the St. John Valley.

GODERICH, ONT.—J. G. MacGregor, C.E., has been instructed by the Town Council to prepare plans for extension of the waterworks intake pipe.—The Town Council will call for tenders for supply of one ton of lead pipe.—The Citizens' Committee will shortly report on a plan for the construction of a waterworks system.

STRATHCONA, ALTA.—The City Engineer has recommended the purchase of a concrete mixer, road roller and street sprinkler.—It is understood that the plans for the new C. P. R. station have been altered to provide for the erection of a much larger building to cost \$60,000. The roundhouse and other buildings will also be enlarged.

VANCOUVER, B. C.—The Oriental Pulp & Paper Company are applying to the Provincial Government for authority to carry out the following works: Construction of a dam on Yale Lake; construction of canals, ditches, flumes and pipelines for conveyance of water; construction of several buildings; construction of wharves.—It is probable that the Canadian Pacific Railway will construct a 250 foot masonry pier.

PARRY SOUND, ONT.—It is understood that the Canadian Northern Railway will erect a blacksmith shop 40 x 60 feet and car shop 40 x 120 feet, both buildings to be of reinforced concrete.—W. F. Thomson will erect a large residence on Belvidere Hill.—E. E. Armstrong, Town Clerk, wants tenders up to April 16th for excavating and filling waterworks trenches. Particulars may be had from the Waterworks Superintendent.

MONTREAL, QUE.—It is reported

that M. P. & J. T. Davis, who are to construct 150 miles of the Grand Trunk Pacific Railway from Quebec bridge eastward, will shortly let a sub contract for the construction of 70 miles of this road.—The following building permits have been issued: Montreal General Hospital, a building on East Lagauchetiere street, cost \$35,000; Emery Choquette, tenement house, City Hall avenue, cost \$6,000; S. Boucher, three houses, Visitation street, cost \$10,000.—Additions are to be made to the Hotel Dieu hospital to cost \$50,000.—L. Clément, two houses, Christopher Colombe street, cost \$9,000; J. Danieł, tenement, St. Hubert and Marie Anne streets, cost \$6,000; alterations to building at 472 East St. Catharine street, for Estate L. P. Belair, 20 St. James street, cost \$4,000; J. O. H. Perres, tenement house, Seigneurs street, cost \$4,000; Seminary of St. Sulpice, house, West Notre Dame street, cost \$4,800; F. Dansereau, two houses, East Sherbrooke street, cost \$7,000; tenement house, Amherst street, cost \$2,000.—The Castle Blend Tea Co. have purchased property on James street on which it is understood they will erect a new building.

HAMILTON, ONT.—The Central Presbyterian church congregation are endeavoring to raise \$10,000 to cover any extras in the erection of their church building.—Stewart & Witton, architects, are preparing plans for a new church building for the Herkimer street Baptist church congregation.—S. H. Kent, City Clerk, will receive tenders up to April 12th for supply of sewer pipe and lime; pumps and motors for proposed new sewage disposal works, and construction of pipe sewer on Cannon street. Specifications at office of City Engineer.—Munro & Mead, architects, will receive tenders up to April 13th for alterations and additions to the Hamilton Club House.—The following building permits have been issued: Thwaites & Spragg, eight frame houses, Arthur street, cost \$7,200; J. P. Shepard, three brick houses, corner Maia and Park streets, cost \$4,000; Stewart & Witton, brick residence for Dr. J. H. Mullin, corner James street and Forest avenue, cost \$4,500; brick residence for O. G. Carscadden, James street, cost \$4,500; brick addition to E. T. Wright & Company's factory, cost \$5,000; D. McBride, six houses, corner Catharine and Simcoe streets, cost \$11,000; S. McPhie, ten brick houses for E. D. Cahill, Emerald street, cost \$20,000; two brick stores, Main street, for Mrs. J. H. Kerner, cost \$10,000.—D. Brown has purchased property on Fairmount avenue and will erect a number of dwellings thereon.—The City Council have instructed Stewart & Witton, architects, to call for tenders for erection of proposed Home for Incurables to cost \$30,000.

WINNIPEG, MAN.—The City Council have decided to defer construction of the bridge over the C. P. R. tracks between Brown and Brant streets for a year.—Tenders for the purchase of \$200,000 Public School Board debentures has been rejected on account of the low offers submitted.—The Chairman Board of Control wants tenders up to April 30th for supply of a quantity of steel pipe and junctions. Specifications at City Engineer's office.—It is probable that the old firehall, corner of Smith street and York avenue, will be demolished and a new building erected on the site to cost \$18,000.—The City Water Commission have appointed J. H. Fuertes and A. Hazen of New York, R. S. Lee of Montreal and J. E. Schwitzer of this city, a commission to report on the following sources of obtaining a water supply for the city: the present system of artesian wells, utilization of Red River and gravity

system from Shoal Lake.—The Manitoba Raidal Railway Co. has been formed with power to construct a railway from Winnipeg to Sundar, Man., and also a branch to Lake Francis.—Barton & Holman, architects, have completed plans for residence at Fort Rouge for E. H. Harrison.—J. Woodman, architect, is calling for tenders for erection of a brick addition to the Crescent Creamery Co.'s cold storage warehouse on Lombard street.—J. D. Atchison, architect, is preparing plans for a \$25,000 brick and stone residence for D. R. Dingwall to be erected on Rostlin road. The same architect has completed plans for a two and a half storey rough cast residence for M. F. Christie to be erected on Betourney street, Fort Rouge, to cost \$10,000.

OTTAWA, ONT.—C. G. Pepper, Chairman of Waterworks Committee, will receive tenders up to April 23rd for furnishing of street sprinkling wagons. Specifications at City Engineer's office.—The following building permits have been issued: A. L. Forbes, six brick veneered dwellings, Elgin street south, cost \$12,000; P. Lennon, three brick veneered dwellings, Percy street, cost \$3,800; Alexander and Campbell, brick veneered double house, Rochester street, cost \$4,000; J. D. Denny, brick veneered dwelling, McLeod street, cost \$2,800; John F. Maunder, brick dwelling, Gladstone avenue, cost \$6,000; T. D. McFarlane, addition to factory, Slater street, cost \$8,000; H. H. Brennan, five brick shops, Bank street, cost \$10,000; F. Wilson, five brick veneered dwellings, Preiton street, cost \$5,000; T. Deane, three brick veneered tenements, Rochester street, cost \$4,500—A large addition is to be made to the Collegiate Institute to cost \$100,000.—The supplementary estimates of the Dominion Government include the following appropriations: Beaverton, harbor improvements, \$3,800; Collingwood, harbor improvements, \$47,100; Hamilton, harbor improvements, \$3,000; Little Current, improvements to northern channel, \$94,600; Midland, harbor improvements, \$20,000; Penetanguishene, harbor improvements, \$6,500; Port Dover, harbor improvements, revote of lapsed balance, \$4,088; dredging and blast ng at Halifax harbor, \$15,000; Intercolonial Railway ice houses, \$11,000; heating apparatus at St. John quarantine station, \$1,650; dredging in St. John harbor, \$13,000; repairing dredging vessels, \$20,000

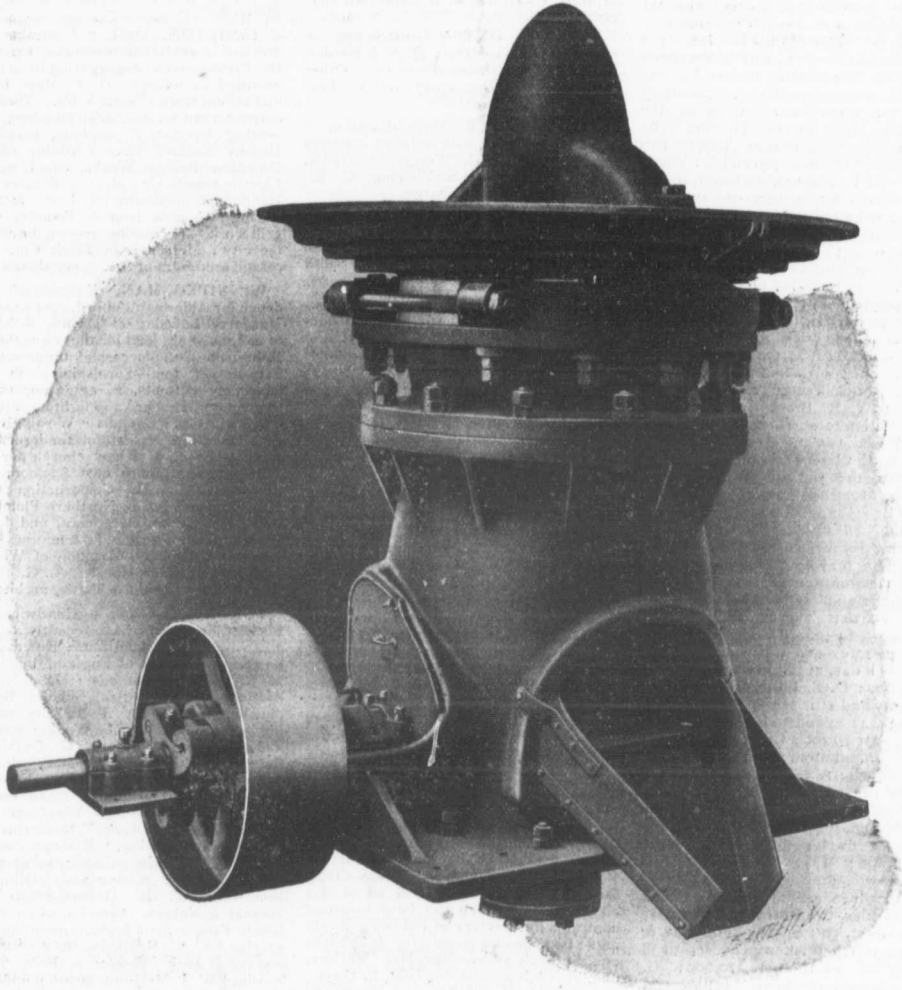
TORONTO, ONT.—W. J. Edwards, architect, is preparing plans for a residence to be erected on Crawford street for J. Harkins, cost \$5,000.—E. R. Babington, architect, is this week taking tenders for erection of brick and stone residence on Manning avenue for W. Hall.—D. Richards, architect, is this week taking tenders for extensive alterations and additions to dwelling corner Grange avenue and Larch street to cost \$5,500.—A. G. Strathy, real estate agent, has negotiated the following sales: Queen street, opposite McCaul street on which the McKinnon Cloak Co. will erect a warehouse; corner of Nelson and Duncan streets, on which Smith Bros. will erect a building; dwelling 11 Nelson street which McCausland Glass Co. will remodel into a warehouse; dwellings 108 to 110 Pearl street which McGregor & McIntyre will convert into a warehouse; corner Simcoe and Pearl streets on which the Minister & Miles Shoe Co. will erect a factory. The same firm have sold the following dwellings which will be remodelled: 1078 Queen street west to Mr. McPherson; 191-193 Adelaide street west to Hugh Johnston; 145 Simcoe street to Mr. Whitely; 184 Adelaide street west to H. B. Donovan.—The Home Bank have purchased building corner Bloor and Bathurst

R

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The demand for crushed rock is increasing rapidly for railroad ballast, Portland cement, fluxing purposes in smelting plants, "Good Roads," etc. Bulletin 1411 describes the machinery and appliances, including the Gates "K" gyrotory breaker shown above, used in MODERN ROCK CRUSHING Plants. Included also are sectional plans of a large number of plants in active operation, from which intending purchasers may get valuable hints in preparing data for plans and specifications.

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NELSON: Josephine St.
VANCOUVER: 416 Seymour St.

streets which they will remodel.—The Grand Trunk Railway Co. are having plans prepared for a number of new stations to cost \$80,000.—The Canadian General Electric Co. are about to erect a five-storey reinforced concrete office building corner King and Simcoe streets to cost \$400,000.—The City Engineer has been instructed to proceed with the construction of an asphalt pavement on Lake street.—The Mutual Life Insurance Co. are said to have in view the erection of a large office building to cost \$1,500,000.—H. Simpson, architect, is preparing plans for extensive additions to the Northern Hotel to cost \$10,000. The same architect is preparing plans for two stores to be erected at 769 and 771 Yonge street.—A. F. Wagner, architect, is preparing plans for a three-storey office building to be erected on Adelaide street west for the Kennel Gazette and Poultry Review, to cost \$7,000. The same architect will erect two dwellings on Hambley avenue.—The following building permits have been issued by the City Architect: D. McDonald, pair two and a half storey semi-detached brick dwellings, Marguerite street, cost \$4,400; Arent & Co., five pair one storey and mansard semi-detached brick veneer dwellings, cost \$15,000; W. R. Brock Co., two storey brick addition to warehouse, cost \$8,000; J. D. Wilson, two and a half storey brick dwelling, St. Clarens avenue, cost \$3,000; G. Eccles, two and a half storey brick dwelling, Montrose avenue, cost \$5,000; J. H. Bowman, three pair two storey semi-detached brick dwelling, 43-53 Hamburg avenue, cost \$12,000; King Bros., two storey and attic brick dwelling, Palmerston avenue, cost \$5,000; J. Woolner, two storey brick veneer store, corner Bartlett avenue and Hallam street, cost \$4,400; D. B. Bowerman, pair two storey and attic semi-detached brick dwellings, 45 48 Vermont avenue, cost \$4,600; D. B. Bowerman, two pair two storey and attic semi-detached brick dwellings, 42-44 and 50 and 52 Vermont avenue, cost \$9,200; Confederation Life Association, addition to office building, cost \$200,000; A. G. Peacey, four storey brick factory, corner College and Bathurst streets, cost \$44,000; J. S. Van Camp & Son, four detached two storey rough cast dwellings, Dagmar avenue, cost \$6,000; J. H. McKnight, five attached two storey and attic brick dwellings, Aberdeen avenue, cost \$13,000; W. K. Piskles, two storey brick laundry, 45 Elm street, cost \$4,500; John Kay & Son, five storey brick warehouse, 36-38 King street west, cost \$20,000; C. Powell, three storey brick dwelling and stable, 212 George street, cost \$14,000.—Langley & Langley, architects, want tenders up to April 16th for erection of large apartment house.

CONTRACTS AWARDED.

HALIFAX, N.S.—Erection of concrete engine house for the city: G. B. Lowe, this city, contractor.

TRURO, N.S.—Erection of an addition to Stanfield Limited's building: F. Wilson & Co., this town, contractors.

VICTORIA, B. C.—Erection of new building for Pimley Automobile Co.: Moore & Whittington, this city, contractors.

GODERICH, ONT.—Construction of a 600 foot retaining wall for Canadian Pacific Railway: M. A. Pigott, this town, contractor.

SUDBURY, ONT.—Erection of addition to St. Joseph's hospital to cost \$35,000: O'Boyle Construction Co., Sault Ste. Marie, contractors.

VANCOUVER, B. C.—Construction of masonry wharf for Canadian Pacific Railway: Macdonald, Gzowski & Co., this city, contractors.

SEBRINGVILLE, ONT.—Erection of parsonage for Evangelical Association to cost \$3,000: Masonry, A. Rudolph; carpenter work, L. Krusp; stone work, D. A. Gough.

MONTREAL, QUE.—Double tracking Grand Trunk line between St. Lambert and Ste. Rosalie, a distance of 33 miles: McRae, Chandler & McNeil, this city, contractors.

LONDON, ONT.—Construction of sewer on Dundas street: Blight & Fielder, successful tenderers at \$6,131. Other bidders, F. Harding, \$6,475 and C. Leathorne, \$6,245.

STREETSVILLE, ONT.—Erection of power house and construction of concrete dam for village: J. Winger, Carrville, Ont., contractor. J. S. Fielding, C. E., Toronto, engineer in charge.

REGINA, SASK.—Erection of the new live stock amphitheatre: Snyder Bros., this city, contractors.—Erection of the Wascana Hotel to cost \$85,000: Smith Bros. & Wilson, contractors.

MITCHELL, ONT.—A. Hill & Company have recently been awarded contracts for construction of three steel and concrete bridges, two in Township of Hullet and one in Howick Township.

TILBURY, ONT.—Erection of hotel building for G. Chalmers: Masonry, C. Clifford; carpenter work, H. Lewis; plastering, J. Wilson.—Erection of two storey brick block for T. Cox: H. Lewis, this village, contractor.

GUELPH, ONT.—Erection of building for A. P. Melrose: Masonry, Johnson & Williams; carpenter work, J. A. Marshall.—Erection of building for Standard Fitting & Valve Co.: Masonry T. Matthews; carpenter work, J. Marshall; painting, H. A. Pass; tinsmithing, E. E. Rudd.

KINGSTON, ONT.—Erection of biological building in connection with Queen's Medical College: Masonry, W. McCahey; carpentering, Hunter & Harold; plumbing, Elliott Bros.; painting, A. McMahon; electric wiring and fixtures, J. Halliday. The total contracts awarded amounted to \$35,756.—Supply of electric meters for city: Canadian General Electric Co., Toronto, successful tenderers.

NIAGARA FALLS, ONT.—Erection of residence on Tuskip avenue for F. Burton: Henry & Lamb, this city, contractors.—Contracts for erection of residence for D. M. Walker have been let to J. Lockhart, W. Hanover, Clark & Crawford and Trelford & Pickard, all of this city.—W. S. Holman has been awarded contracts for erection of following dwellings: two, Bender street, for J. Zybach; one, St. Clair avenue, for Mrs. McGarr; one, St. Clair avenue, for Miss E. Clark; two at Welland and Morrison for O. E. Dore.

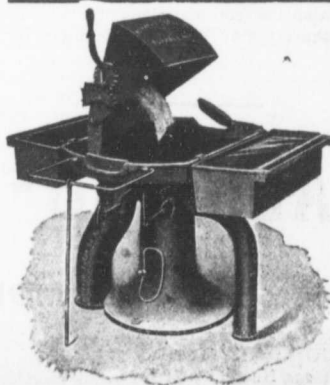
PETERBORO, ONT.—Construction of branch line from this city to Victoria Harbor for Canadian Pacific Railway: Toronto Construction Co., Toronto, contractors. Estimated cost \$2,000,000.—

Erection of Collegiate Institute building: Masonry, Langford & Sheehy, \$51,318.00; plumbing, C. J. Duranceau, \$2,216.00; electric wiring, F. R. J. MacPherson, \$226.50.—Erection of additions to North Ward School: Masonry, W. J. Johnston, \$16,950.00; heating, C. J. Duranceau, \$2,235.07; plumbing, C. J. Duranceau, \$1,425.00; electric wiring, Alexander & Miller, \$38.00.

HAMILTON, ONT.—Contracts for erection of new church building for Central Presbyterian congregation have been awarded as follows: G. E. Mills, brick and mason work; Scott & Co., Toronto, carpenter work; A. Clark, plumbing and heating; Goodale & Laidlaw, painting; Brooks Sanford Co., Toronto, tiling; Hamilton Bridge Works, steel work; Electric Supply Co., electric fixtures; A. Hannaford, plastering; T. Irwin & Son, roofing; Canada Iron & Foundry Co., grill work.—Furnishing paving brick for the city: Metropolitan Brick Co., successful tenderers at \$26.25 per thousand.

WINNIPEG, MAN.—Erection of residence for Alderman Pulford, cost \$20,000: Masonry, Loveday & Darling.—Supply of 60 tons of pig lead for the city: James Robertson Co., successful tenderers at \$116.20 per ton.—Furnishing 200 arc lamps, 200 cut-outs, 2 regulating transformers, switchboard and lighting arresters for the city: Canadian Westinghouse Co., Hamilton, successful tenderers, at \$8,095.—Erection of new church for St. Giles congregation to cost \$35,000: Imperial Plumbing & Construction Co., Metallic Roofing Co., Northern Plumbing Co., J. M. Taylor, electrician, and J. A. Morley, painter, successful tenderers. C. McBean, architect.—Erection of Whyte-wold Beach Club House: A. G. Akin, contractors. Jewett & Tuttle, architects.

TORONTO, ONT.—Chadwick & Beckett, architects, have recently awarded the following contracts: Erection of an addition to Sons of England building, 38 Richmond street east: Masonry, G. Aldrich; carpenter work, Scholey Bros.; plumbing and heating, T. A. Riley; painting and glazing, W. M. Weeks; roofing and galvanized iron work, G. Duthie & Son; plastering, W. Webster; electric wiring, McDonald & Wilson.—Erection of a residence on Indian Road for A. Hutchinson: Masonry, Waghorn & Walker; carpenter work, T. McKerracher; plumbing and heating, J. E. Gray; electric wiring, A. W. Kirvin; painting and glazing, E. J. Linington; roofing and galvanized iron work, W. E. Dillon; plastering, Hannah & Nelson.—Erection of an addition to Rose avenue firehall: painting and glazing, J. R. Robinson, \$296; roofing and metal work, Wheeler & Bain, \$416; heating, W. J. McGuire, \$650; plumbing, W. J. McGuire, \$700; plastering, Beaver & Co., \$460; tile work, Brookes-Sanford Hardware Company, \$142.80.—Laying of bitulithic pavement, Clinton street, Mansfield to College streets: Warren Bituminous Paving Co., this city, successful tenderers at \$3,918.



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THE OUTLOOK.

During the past week several strikes have been declared and a number of new demands made by the trades unions for increased wages, etc.

The carpenters are demanding increases ranging from 10% to nearly 30% over their present wage, and painters are also seeking material increases over the present scales.

In Hamilton the employers are said to have granted increases to several of the trades, while in Toronto the question is still in abeyance.

Building material continues generally active. Iron and steel are unusually active for this time of year, and the eastern mills are unable to cope with the present heavy demand.

The cement plants are operating to their full capacity, with every indication for a busy season. The demand is heavy and prices good.

The building statistics for the first three months of the year show wonderful increases in the value of permits issued. Probably the only city in Canada where the figures are below those of last year is Winni-

peg, where for the first quarter of 1906 the permits totalled \$1,150,300, while for the same period this year the amount is \$952,504. In Vancouver the figures for the past three months are \$993,025 and those of 1906, \$773,980; Toronto figures are: 1906, \$1,918,238; 1907, \$3,071,840.

NOTES.

A. A. Maurice & Co., and Dagenais & Frere, contractors and builders, Montreal, have registered.

The MacLeod Builders' Supply Company has recently been established at MacLeod, Alta. The new concern will manufacture concrete blocks and bricks as well as deal in builders' supplies.

The Canadian Pacific Railway Company's offer to give the city of Winnipeg \$200,000 toward cost of obtaining an adequate supply of water for the city has been accepted by the City Council.

It seems peculiar that the "PRIESTMAN'S" EXCAVATOR AND DREDGER

is not used in Canada as it is all over the rest of the world, inasmuch as it will do more work with less labor than any Excavator at present in use and the first cost is less than most. For particulars write G. P. WALLINGTON, Canadian Representative, 11 Front Street East, Toronto

The city of Winnipeg will in future operate the city wells by electricity. In the past the electric current available has been of insufficient voltage and therefore useless, but the city have purchased a voltage booster which will remedy this defect, and incidentally save a considerable amount of money.

A bill has been offered in the Minnesota legislature to provide buildings and machinery for crushing rock for road purposes, the intention being to utilize prison labor for the work. It will doubtless meet with opposition from some sources, as does every suggestion to make prison labor a source of profit to the state, but for the general good, the idea should be developed. The plan is that the crushed rock should be delivered free on board cars at the works, to be sent to such boards of county commissioners as shall apply for the material, to be used in the construction of permanent roads.

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THE AMHERSTBURG QUARRY.

The stone quarry at Amherstburg, Ont., owned and operated by the Amherstburg Quarry Company, and under the management of Mr. T. W. Bellhouse, is now the scene of increased activity. The Dominion Government sometime ago specified stone from this quarry for use at the Soo locks, and the contractors who took the stone out left the quarry in bad condition. The present company took possession about seven years ago, and have since devoted most of their efforts to clearing up. As a consequence they have sold nothing but crushed stone and building stone. They will be in a position very shortly to supply block stone, in which they expect to do a large business.

bunch of grapes surrounded by rope work, which illustrates the facility with which this stone can be worked.

The quarry is very complete and operated by the tool check system. They have a No. 6 Gates and a No. 3 McCulloch crusher, a Rand drill and Fairbanks-Morse pumps.

LONG-SPAN ARCHES.

The longest concrete arch yet undertaken anywhere is that of the main span of the Walnut Lane bridge in Philadelphia. Not only is it the largest of its class, but it has the third place in the list of long-span arches of all classes of masonry, so that the structure must be regarded as one of the most

John bridge near Washington has now dropped back to fifth place. It is not at all improbable, however, that this list will see some important additions before many years have elapsed, for the construction of long-span reinforced concrete arches, has not yet begun. The 230 ft. of the Gruenwald bridge, the longest concrete structure with metal reinforcement, is of insignificant length when measured by the possibilities afforded by new methods of design.

Bryant & Co., contractors, of Sherbrooke, Que., have registered their business.

Roughcast construction is becoming very popular among the



THE WATERWORKS, ATLIN, B. C.

Samples of this stone, ranging up to 10 ft. 6 in. x 3 ft. 6 in. x 2 ft. 6 in., were sent to Robertson & Company, contractors, Detroit, who reported that they planed, smoothed, and otherwise experimented with it. No difficulty was found in planing the stone, and it took a nice smooth surface. It would seem that this stone ought to be in a position to compete with the imported Indiana product.

When our representative was at the quarry he saw a large block of this stone, which had been exposed for six years to the weather, with pockets made in it to catch the water. There was no evidence of any deterioration whatever. On one side of this block is carved a

interesting engineering undertakings of to-day. The longest masonry bridge in the world is the structure at Plauen, Saxony, by Mr. Carl L. Palen, who assisted in its design; it has a clear span of 295.2 ft. and its soffit is a five-centered curve with radii of 344.5, 191.9 and 98.7 ft. The second place is held by the bridge over the Petrusse River in Luxembourg, it has a span of 275.5 ft. and a rise of 101.8 ft., and is a circular curve. The third place is held by the Walnut Lane span of 233 ft. The fourth place is occupied by the Gruenwald bridge over the Isar River at Munich, which has a reinforced concrete span of 230 ft. and a rise of 42 feet. The famous Cabin

smaller residences being put up in the Winnipeg suburbs this year.

Mr. J. W. Pattison, who for the past twelve years has been Town Clerk of Neepawa, Man., has resigned that position owing to ill-health.

Mr. E. Jennings has taken over the Western Canada Agency for the Warden King Co., of Montreal, and has his offices at 304 King Street, Winnipeg.

The new Winnipeg Post Office is nearing completion. The interior measuring 130 x 50 is being lined throughout with 8 ft. 5 in. slabs of Carrara marble imported direct from Italy. This work is being carried out by the Hooper Marble & Granite Company, Limited, Winnipeg.

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QUEBEC AND MONTREAL

BUILDING CONTRACTS.

We are informed that the year 1906 was the best for the volume of business in the history of A. B. Ormsby, Limited. The company, with factories at Toronto and Winnipeg, did a large amount of fireproof window, door and skylight work, of which they make a specialty, having plants second to none for the production of their different lines. Among the new buildings on which these goods have been installed during the past year by the Toronto factory were the Gunns, Limited, abbatoir, Toronto Junction; C. R. Somerville, London; Sherwin Williams Company, Montreal; Brinton Carpet Company, Peterboro; Canada Cycle and Motor Works, Toronto Junction; and new C.P.R. shops, Toronto Junction. On the general iron work might be mentioned the Traders' Bank building, the Continental Life building, the Exhibition Process & Press Building, St. Patrick's church, all in Toronto, and St. Monica's church, Eglinton. The Toronto factory have in hand at the present time the new Dominion Radiator works, Ogilvie building, National Club, Carnegie Library, in Toronto, and the T. H. & B. Railway shops, Hamilton. In fireproof windows they have the contracts for the Southam building, Montreal, and Merchants' Rubber Company, Ber-

lin, and in doors the building of the Geo. Matthews Company, Limited, Brantford.

In Winnipeg they have completed and under way the following contracts for fireproof windows, doors and skylights: Bemis Bros. Bag Co., the Aiken's block, Hudson Bay power house, McIntyre block, Cockshutt Plow Co., Dominion Radiator works, and Commercial Travellers' building. They have done a considerable trade throughout the West, the large contracts including the Telephone building, Vancouver; Revillon Bros., Edmonton, and Virtue & Company, Lethbridge.

JNO. S. FIELDING

C. E.

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INJURY TO CONCRETE BY WATER.

An unusual instance of the injury of limestone concrete by soft water was described before the Institution of Civil Engineers by M. R. Barnett. The soft Thirlmere water of the Manchester supply was found to have acted on the limestone of a three-mile length of concrete aqueduct so severely that a total leakage of 1,250,000 imperial gallons per day was taking place, although the workmanship on the conduit had been of an excellent character. In order to examine the interior aqueduct short lengths were successively shut off by timber bulkheads, and the investigation thus made showed, in some places, holes in the invert through which the water was escaping, and all the small individual pieces of limestone were much water-worn. Physical and chemical tests showed that from 7 to 18 per cent. wastage per year occurred in limestone blocks while mortar blocks gained somewhat in weight. The mortar was mixed 1 : 1, using Portland cement, and its weight increased during three months' immersion in Thirlmere water at the rate of 3.57 per cent. annually, while blocks of neat cement showed an increase at the rate of 5.47 per cent. It was decided that the best way of stopping the leakage was to resurface the whole surface of the concrete in which limestone had been used with 1 : 1 Portland cement mortar not less than 1 in. in thickness. To do this some special devices were employed to remove the necessary surface thickness from the old concrete and to apply the new mortar facing, which were described in detail by Mr. Barnett in his paper. The mortar was put in between timber framework fixed so as to give the cement thickness and maintain the original dimensions of the culvert, which it was very desirable to retain. The surface of the invert was hacked off and replastered after the side walls had been done. The handling of the outside ground water became quite a problem; in all cases free vent was given to the water by the insertion of pipes of suitable platforms for the riveting gangs, a purpose which they very conveniently served.

ONTARIO PUBLIC WORKS ESTIMATES.

Following is a list of the more important works and amounts appropriated therefore which the Provincial Government sanctioned at the recent session: Bala bridge (to complete), \$2,000; extension to wharf at Port Carling, \$2,000; Sauble River bridge, \$4,300; Mississippi, Grant, McKenzie and Egan bridges, \$2,400; bridges on Round Lake Road, \$2,400; Goulais river bridge, \$2,800; White river bridge and approaches, Marter

8 TO 10

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Township, \$2,800; Thessalon and Larchwood bridges, \$3,000; Gooderham and Kinmount bridges, \$3,500; Minden bridge, \$3,500; Mattawa bridge, \$4,800; bridge at Eau Claire, \$3,800; Houseys Rapids bridge, \$3,800; New Liskeard bridge, Grant, \$4,000; Mississauga river bridge, Thompson Township, \$4,600; Kearney bridge, \$4,800; improving Kemps channel, \$5,000; West Arm Lake Nipissing bridge, \$3,000; Wabigoon bridge, \$7,600; Spanish river bridge and approaches, \$0,500; Espinola bridge, \$8,800; Massey bridge, Spanish river, \$14,000.

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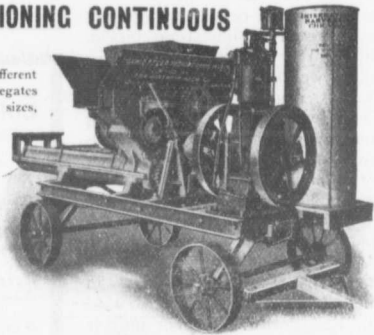
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Rexford Bishop, Limited, Montreal, incorporated to carry on a general construction business, capital \$100,000. Incorporators, W. I. Bishop, W. C. Strachan, H. Murray, W. G. Mitchell and W. S. Hart, all of Montreal.

Harricana Lumber Company, Limited, Hull, Que., incorporated, capital \$250,000. Incorporators, F. A. Gendron and H. A. Goyette of Hull, A. E. Hitchcock, of Ottawa, M. Joannis, of Maniwaki, and N. Drouin, of Quebec.

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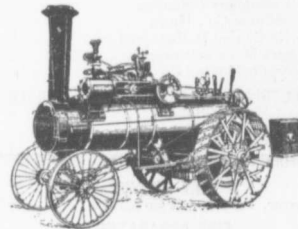
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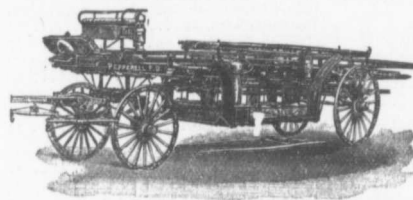
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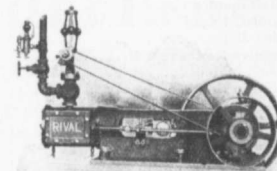


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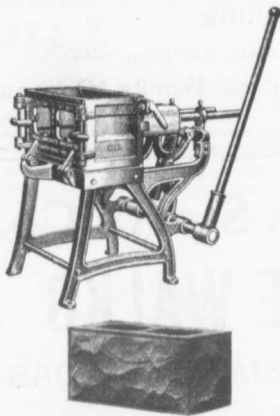
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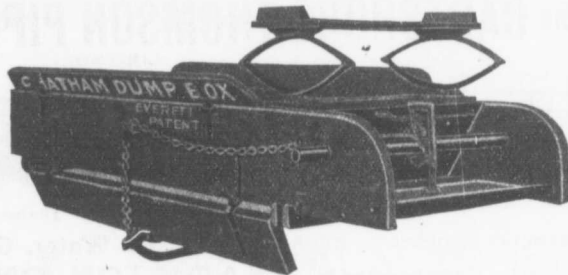
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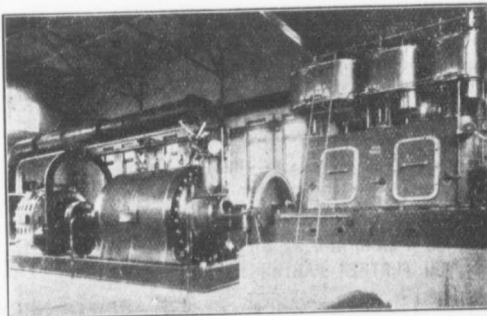
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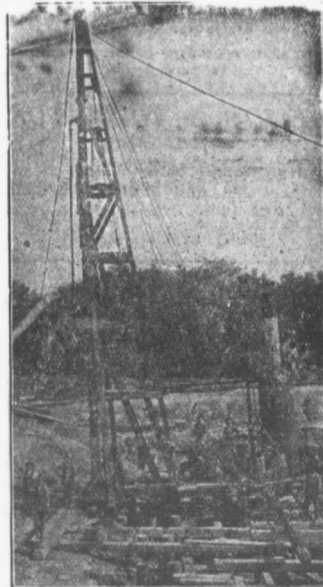
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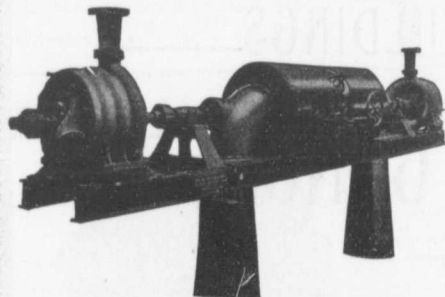
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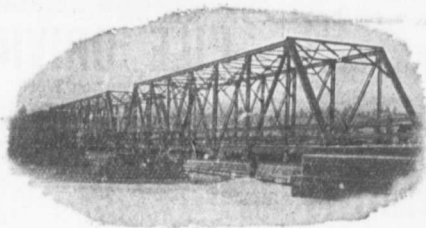
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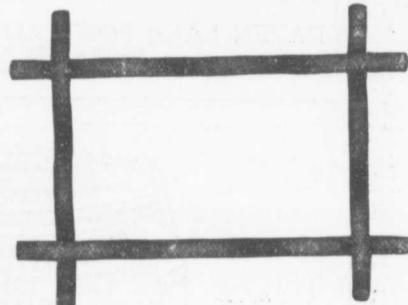
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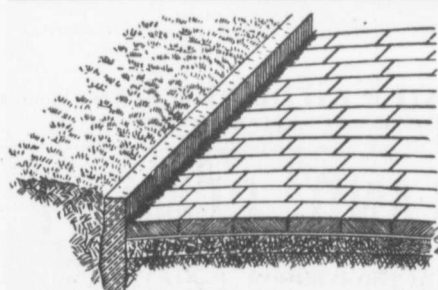
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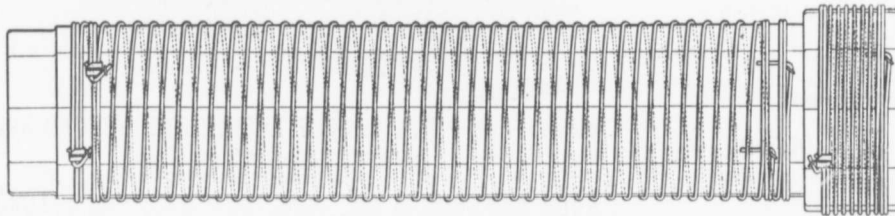
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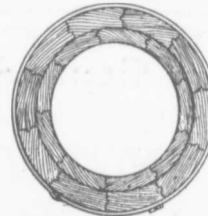
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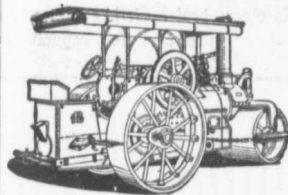
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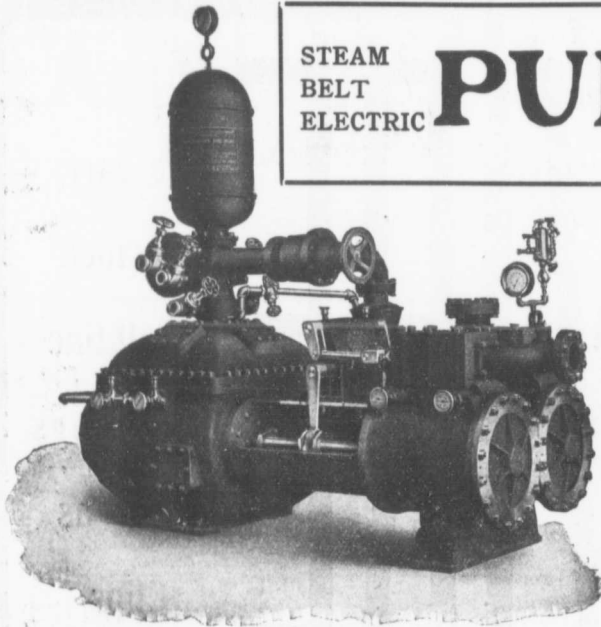
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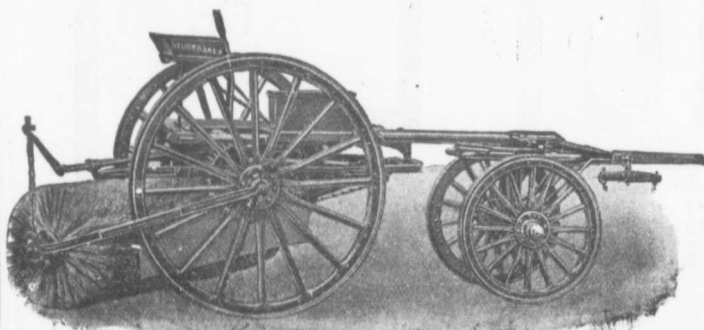
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