# CANADIAN **Contract Record**

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

This Paper Reaches Every Week the Town and City Clerks, Town and City Engineers, County Clerks and County Engineers, Purchasers of Municipal Debentures and Leading Contractors in All Lines Throughout Canada

VOL. 15.

TORONTO AND MONTREAL, FEBRUARY 24, 1904

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give both old and new address. Notify the pub-lishers of any irregularity in delivery of pap r.



Tenders will be received by the undersigned up to MARCH 187, 1904, for the purchase of \$5,000.00 year Debentures with interest pay-able half yearly at 5%, for the erection of a new R.C. Separate School House in the Town of Sturgeon Falls. urgeon Falls. For further particulars apply to

T. FOURNIER, Sec'y R.C. Sep. School Board, Sturgeon Falls,

**TENDERS FOR** PAVEMENTS in the City of Chatham,

Ontario.

Sealed tenders wi'l be received by the under-signed up to 4 o'clock, p. m., on MONDAY, THE 30TH DAY OF FEREVLARY, 1904, for pavements on the following streets in the City of Chatham,

The second secon

W. G. MERRITT, City Clerk. Feby. 11th, 1904.

# **Extension of Time** LETHBRIDCE WATER WORKS

Sealed Tenders will be received by the Se tary-Treasurer of Lethbridge until 6 p.m. on

Thursday, March 31, 1904.

For Contract C2-Masonry foundation. For Contract H-Boilers. For Contract I-Wells and galleries.

Sealed tenders will also be received by the Secretary-Treasurer of Lethbridge until 6 p.m. on Thursday, April 14, 1904,

For Contract B-Pump house.

For Contract G-Pumping machinery.

For Contract G-Purmping machinery. Flans, specifications, etc., may be seen at the office of the Secretary-Treasurer, Lethbridge, or at the office of the Chief Rugineer, Toronto, Ont. No tender neccssarily accepted. W. OLIVER, Rsq., C. R. BOWMAN, Esc., Lethbridge, Alta. Lethbridge, Alta. WILLIS CHIPMAN, C.E., M. FREEMAN, Esq., 103 Bay Street, Toronto Chairman of Committee, Lethbridge, Alta.



# Notice to Contractors Tenders for "Scows"

Tenders will be received, by registered posi-only, addressed to the Chairman of the Baard of Control, City Hall, Toronto, up to soon on TUESDAY, MARCH STH, 1904, for the con-struction of Two Scows, to be delivered in Tor-onto Harbor. Envelopes containing tenders must be plainly marked as to contents. Specifications may be seen and forms of tender obtained at the office of the City Engineer, Tor-onto.

onto. A marked cheque, payable to the order of the City Treasurer. Toronto, for 3% per cent. of the value of the work tendered for, must accompany each and every tender, otherwise it will be ruled out as informal. The lowest or any tender not necessarily ac-cepted.

THOMAS URQUHART, Mayor, Chairman Board of Control. City Hall, Toronto, Feb. 19, 1904.

### **PLANS WANTED**

The undersigned is prepared to receive plans for the erection of a Presbyterian church at Regina up to the FIRST OF MARCH, 1964. The building to be of brick on stone found-ation, concrete footings, seating capacity 1,000, Particular attention to be given to interior, ex-terior plain. For further particulars as to de-tails, etc., apply to P. MCARA. In.

P. MCARA, JR., Regina, N. W. T.

No. 2

#### CONTRACTS OPEN.

BRISTOL, N.B.-E. W. Bell purposes building a new mill at Suckney Brook.

CONROY, ONT. — T. Payton is pre-paring to build a brick residence. MONKTON, ONT. — Fred Hille-brecht will build a residence in this

village.

DEAD CREEK, ONT. - A new Methodist church will be built here this spring.

GUELPH, ONT.—Plans are being prepared for a large rink to be built in this city.

ENDERBY, B. C. — The Columbia Flour Mills Co. will double the output of their mill here.

CLINTON, ONT. — The Jackson Manufacturing Co. will probably enlarge their premises.

MONTREAL JUNCTION, ONT.-Andrew Monteith has purchased a build-ing lot on Herald avenue.

WESTMOUNT, QUE.—The Mon-treal Water and Power Co. purpose in-stalling a filtration system.

GODERICH, ONT.-The Goderich Planing Mill Co., recently organized, will install a new engine and boiler.

REXTON, N.B.-W. J. O'Leary is negotiating for the installation of an electric light plant here.

BLACKVILLE, N.B.-Certain local business men are forming a company io install an electric light plant here.

FORT WILLIAM, ONT. — J. C. Stinson is this week taking tenders for the erection of a double house for T. J. Walsh

STE. CUNEGONDE, QUE.-It is expected that the ercction of the new city hall will be commenced about May Ist.

COOKSHIRE, QUE.—A new Catho-lic church, to cost about \$15.000, will be built here next summer, of brick, with stone facings.

HANOVER, ONT.- D. Knechtel has purchased the Landerkin property and intends building a new Y.M.C.A., to cost abcut \$7,000.

MIDLOTHIAN, ONT. - Daniel Geddes will receive tenders up to March 15th for brick veneering, lathing and plastering of house on the bank of Lake Cecebe.

EAST ANGUS, QUE.—The Eastern Townships Bank have selected a site here on which to erect a banking building.

LONDON, ONT. — Matthews & Murray, architects, are preparing plans for alterations and additions to house on Queens avenue.

ANNAPOLIS, N.S.—A brick block go x 70 feet will be built here this spring by F. R. Butcher and the Canadian Bank of Commerce.

BROCKVILLE, ONT.-It is the intention to enlarge and remodel the Metropolitam Bank, putting in new front and interior fittings.

NEWCASTLE, N.B. Anderson Bros., late of Woodstock, Ont., have made arrangements to build a furniture factory at this place.

ATHERTON, ONT.—Bids received by W. H. Cook up to March 5th for erection of brick church in township of Charlotteville.

DRUMMOND CENTRE, ONT.--Plans have been prepared for a building to be erected by L. O. L. No. 7, Drummond, of brick, 26 by 52 feet.

RIDGETOWN, ONT.-Howard Council will petition the Grand Trunk Railway to build a larger bridge over the Thames river than at present contemplated.

BRANTFORD, ONT. — Principal Gardner, of 'he Brantford Institute for the Blind, urges the erection within the province of a home for the blind.

EDMONTON, N. W. T. — W. G. Tretheway, promoter, of Montreal, has submitted to the town council plans for an electric railway to be built here.

KINGSTON, ONT.-H. P. Smith, architect, has just taken tenders on reconstruction of three stone buildings on Brock street for the Sisters of the Hotel Dieu.

COLLINGWOOD, ONT.—John Wilson, architect, is preparing plans for a residence to be built on Third street for P. W. Arnold, manager of the Collingwood Furniture Co.

NORWICH, ONT. — Cawthorpe & Co. have submitted a proposition to the council to build a grist mill here, of brick, on stone foundation, capacity 75 barrels per day, cost \$12,000.

BLAIRMORE, N.W.T.--The International Coal and Coke Co. purposes establishing waterworks and electric light systems here in the near future.--The C. P.R. will build a new depot.

CORNWALL, ONT.—The Walthausen Hat Manufacturing Co. has closed negotiations with the Council to establish a factory here. It is agreed to build a three-storey factory 150 feet square.

PORT ARTHUR, ONT. -- C. W. Wheeler. architect, hav. purchased a lot on south side of Arthur street on which he will build a business block.--The Canadian Elevator Company will erect a large grain elevator here, the council having granted them exemption from taxation.

SARNIA, ONT.—J. W. Smith will receive tenders up to March 1st for erection of a four-roomed school building. Plans by N. R. Burrowes, architect. —The County Council have purchased the old Bank of Upper Canada building for county offices and will make alterations thereto.

HUNTINGDON, QUE. — Tenders will be received by Andrew Philps up to March 14th for masonry, carpentry and

painting of new St. Andrew's Presbyterian church. Plans at Mr. Philps, office.

TILSONBURG, ONT. — Joseph Aspinal desires tenders by March sith for bricklaying, plastering, carpentry, painting and glazing, heating, roofing, and farnishings for erection of Masonic building.

INGERSOLL, ONT.—John E. Boles, James P. Boles, C. C. L. Wilson, Charles White, W. F. Johnston and Cecil Johnston, of this town, have each purchased lots at Port Burwell on which to build summer residences.

PERTH, ONT.—The Private Bills Committee of the Ontario Legislature has agreed to permit this town to spend the necessary money to complete the sewerage system without going to the electors.

HAMILTON, ONT, -- The Hamilton, Grimsby & Beamsville Electric Railway Co. will make additions and improvements to their plant.-- A three-storey apartment house is to be erected on the corner of King and Walnut streets.

SAULT STE. MARIE, ONT.-A deputation from this place have asked the Ontario Government for a subsidy for the Bruce Mines and Algrma Railway for a distance of 21 miles beyond the limit for which a subsidy has already been granted.

CALABOGIE, ONT.-Patrick Barrett will receive tenders up to 27th inst. for construction of a truss bridge over the Madawaska river at Calabogie Lake, consisting of two spans 41 and 45 fret respectively. Plans by J. L. Morris, C.E., of Pembroke.

STRATFORD, ONT.—James Hyslop has had plans prepared for a two-storey brick residence to be built on the Embro road. — The new R.C. church for St. Joseph's congregation, referred to in last issue, will be built on the corner of Douro and Well streets, the site having already been purchased. Work will be commenced in the spring.

MINTO, MAN.—Alex. Rose, of the Municipality of Whitewear, will receive tenders up to March 15th for erection of a bridge over the Souris river, to consist of two Howe truss spans, one of 100 and one of 70 feet, together with pile approaches.

DOUGLASTOWN, QUE.—The Dominion Government is asking for tenders up to March 11th fcr construction of a pier at this place. Plans on application to the Postmaster here, and at offices of P. Beland, Clerk of Works, Quebec, and C. Desjardins, Post Office Building, Montreal.

WOODSTOCK, ONT.—A committee has been named to formulate a scheme for the building of a new city hall.— Wallace & Luttle, of this city, will apply for a charter for an electric railway between Brantford and Hamilton. David Brennan, of Detroit, and other American capitalists are interested.

HALIFAX, N.S.—The bill to provide for the borrowing of money for paving of streets will be presented to the Legislature shortly. If sanctioned, work will be 'segun in the early summer. The question of improved water service for the northern part of the city is also under consideration.

LETHBRIDGE, N.W.T.—The time for receiving tenders for sections of waterworks system has been extended as follows: To March 31st for masonry foundation, boilers and wells and galleries; to April 14th for pump-house and pumping machinety Willis Chipman, C.E., of Toronto, is consulting engineer.

FORT FRANCIS, ONT.—The syndicate represented by E. W. Backus, of

Minneapolis, has finally concluded an agreement with the Ontario Governmeni regarding power development on the Rainy River at this place. The agreement provides that the syndicate shall develop the water power to its full capacity, \$50,000 dollars to be expended within nine months and the whole to be completed by May 1, 1906.

LINDSAY, ONT.-Mr. Ashley, of the Rathbun Co., has purchased a lot on the corner of St. Paul and Colbcrne streets on which he will build two houses.-D. Hallihan will build a house on St. Paul street, and Joseph Killaby will build several houses on the same street.-D. Crimmons has had plans prepared for a cottage to be built on corner of St. Patrick and Colborne streets.-John Walker will build on the Wilkinson property on St. Peter street.

VICTORIA, B.C.—The City Council have agreed to submit to the ratepayers a by-law to provide \$ 40,000 for new school buildings.—The Dominion Government has made an appropriation of  $\$ 3_3$ , ooo towards the Marine Hospital in this city, which sum will be expended in improvements.— Preparations are being made to commence the building of the new C.P.R. hotel on James Bay flats, the architect of which is F. M. Rattenbury.

OTTAWA, ONT.—The Crown Bank has leased the premises at 97 and 90 Sparks street, which will be remodelled for banking purposes.—Plans have been completed for the new club house for the Rideau Canoe Club. It will probably be built on the canal at the eastern end of Mutchmor street.—Erskine Presbyterian congregation will likely build a new church this year on the corner of Concession and McLaren streets. Rev. A. E. Mitchell is pastor.

ST. JOHN, N.B.—Plans for the new drill shed to be built here are in the hands of Col. White. They show a main building 200 by 100 feet, a field battery building 160 by 45 feet and a building is expected to cost between \$75,000 and \$100,000 and will probably be commenced this spring.—It is understood that the Imperial Dry Dock Co. has returned all the deposits accompanying tenders excepting one, and that the directors are endeavoring to arrange with this [contractor about some minor details before accepting bis tender.

MONTREAL, QUE. — Only \$0,000 remains to be subscribed towards the erection and epuipment of the proposed Y.M.C.A. building at McGill University, work on which will likely be commenced the coming summer. — Superintendent Ferns, of the Fire Alarm Department, has recommended the erection of a fireproof building, to contain the latest and most approved apparatus. —Building permits have been granted as follows : Napoleon Braconnier, two-storey house, Cavillier street, cost \$1,000; Miss S. Monarque, two-storey dwelling and store, Ontario street, cost \$1,000; L. Mathieu, one-storey dwelling and store, Maple street, cost \$1,000.

WINNIPEG, MAN., —Darling, Pearson & Over, architects, have just taken tenders on erection of brick and stone buildings for the Canadian Bank of Commerce at Portage la Prairie and Medicine Hat.—James Chisholm, architect, is this week receiving tenders for erection of a stone and brick church for the Zon Methodist congregation on Pacific avenue.—The Canadian Pacific Railway purpose carrying out extensive improvemeat work on the western division during the coming season. A large amount of money will be expended in track improvement and several new stations will be built, including a \$50,000 station and general offices at Calgary Feb

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Only \$9,000 towards the he proposed I University, commenced perintendent Department, on of a firee latest and Building peras follo storey house, oo; Miss S. ng and store, L. Mathieu, Maple tore,

arling, Pear-e just taken k and stone lank of Comand Medicine hitect, is this erection of a or the Zion Pacific ave-fic Railway ive improve-ern division n. A large expended in several new ing a \$50,000 s at Calgary

out the province will be replaced by steel structure, and considerable filling in, bal-lasting, etc., will be done.— The City Engineer has reported that it woold cost \$60,000 to pave Pender street with wooden blocks from the C.P.R., track to Burrard street.—A local firm of archi-tects are about to call for tenders for seven dwelling houses and have com-pleted plans for a four-storey building 25 by 100 feet to be erected on Hastings



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street .- The Building Committee of the Public School Board have recommended that competitive plans be invited for a four-roomed school building to be built in Fairview West. - The Canadian Pacific Railway Company are looking into the question of consolidating their electric lighting plants in this city.—John Hendry, president of the V. W. & Y. Railway, is applying for power to build a wharf 820 feet out on Burrard Inlet, in front of this city.—I. N. Cole has com-menced the construction of a factory for the manufacture of wire bound wooden the manufacture of wire-bound wooden

pipe. TORONTO, ONT. - Chadwick & Beckett, architects, have in hand plans for a store for W. C. Lee at corner of Lee avenue and Queen street.—It is the in-tention of Trinity College to erect extensive new buildings as an addition to the present residence.—Tenders are wanted at 192 Lisgar street for erection of a pair of houses.—It is understood that the authoritues of St. Andrews' College are taking tenders on the new building to be rested in Receded A vaccount lot on taking tenders on the new building to be erected in Rosedale.—A vacant lot on Bathurst street, near Herrick street, changed hands inst week for building purposes.—The Board of Control are asking for tenders by Tuesday, March 8th, for the construction of two scows to be delivered in Toronto Harbor.—Royce & Henderson, of this city, acting for the Toronto Suburban Railway Co., have applied to the Ontario Government for power to build an electric railway from



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February 24, 1904

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February 24, 1904

Woodbridge, York County, to Niagara Falls.-It has been decided to ask for Falls.-It Fails-it has been decide to ask for new tenders for the building of the Berkeley street fire hall. — The City Engineer strongly urges the purchase of a new stone crusher.—At a meeting of the Industrial Exhibition Board held last week, it was decided to ask the City Council for \$13,000 for a fire-proof addition to the Art Gallery and \$20,000 for a new Administration Building and Press Bureau. A proposition to erect a build-ing in which to judge cattle and horses will be considered at the annual ing in which to judge cattle and horses will be considered at the annual meeting.—The City Enguneer has re-ported that a complete electric light plant for the Island would cost \$90,000. —The Polce Commissioner's have de-cided to establish a new station at the corner of Blong and Pape avenues, where a new building will likely be erected for the purpose. — The premises at 34 King street west, recently occupied by the Canada Cycle & Motor Co., have been secured by the Crown Bank of Canada. The entire building will be remodelled. — Build-ing permits have been granted as follows: Mrs. S. J. Graydon, pair two-storey and attic brick and stone dwellings, 668 and 670 Huron street, cost \$7,000; storey and attic orick and stone dweinings ( $\delta\delta$  and  $\delta$  of Huron street, cost \$7,000; also two-storey and attic brick and stone dwelling,  $\delta$ 72 Huron street, cost \$4,000; Joseph S. Montgomery, three two-storey and attic stone and brick dwellings, corner Euclid avenue and Harbord street, cost \$8,000; George Wallis, two-storey cost \$\$,000; George Wallis, two-storey and mansard addition to store and dwell-ing, rear 345 College street, cost \$2,000; E. Ockley, pair two-storey brick dwell-ings, 85 and 87 Lansdowne avenue, cost \$4,500; H. G. Muntz, pair two-storey brick dwellings, 41 and 43 Concord avenue, cost \$3,000; Dr. Laker, two-storey and stip brick and store dwelling storey and attic brick and stone dwelling, Dundas street, near Arthur, cost \$3,000.

## CANADIAN CONTRACT RECORD

factory of the Knechtel Co. : H. Prast, Contractor: four stores, 120 by 52 feet. FORT WILLIAM, ONT.—Elevator for Ogilvie Flour Mills Co.: Macdonald Engineering Co., of Chicago, contractors.

BERLIN, ONT. – Remodeling in-terior of post office : Canadian Office & School Furniture Co., of Preston, successful tenderers.

HAMILTON, ONT.-Yaies & Son, a new firm of contractors, have secured the contract of building several houses for the Eastern Building Co.

MONKTON, ONT.—New Methodist church: Carpenter work, Horn & Calder, of Listowel; masonry, brickwork, etc., Geo. Fritz; painting, N. L. Pletsch. W. E. Binning, of Listowel, is architect.

PEMBROKE, ONT.—Three tenders were received for construction of exten-sion of sewer outlet as follows : Mr, O'Leary, Ottaw1, \$13,500 ; Lemoine & Fortier, Pembroke, \$6,925; E. Behan, Pembroke, \$5,830 (accepted).

LONDON, ONT.-The Water Com-missioners have accepted the following tenders: Pipe laying, T. Leathorn & Co. lead pipe, James Cowan & Co.; hydrants, valves, brass work, iron castings and stop cock boxes, Stevens Manufacturing Co.; lumber, Dyment - Baker Company.— Alterations and new store front for Odd-fellows Building, corner Dundas and Clarence streets: R. G. Wilson, contrac-tor.

tor. VANCOUVER, B. C.-Four tenders were received by the city for galvanized pipe and fittings for waterworks pur-poses, the figure in each case being \$3,161.25. No award yet made. Boyd, Burns & Co. secured the contract for

WARREN'S PATENT

brass work at \$1,049. Other tenders were: Fairbanks Co., \$1,260.60; Robert-son-Godson Co., \$1,100. McLennan, McFeely Co. secured the contract for hardware.--Wharf for the New England hardware.—Wharf for the New England Fish Co.: Ironsides, Rannie & Campbell, contractors; price about \$20,000.

CALGARY, N. W. T.-J. J. Jackson & Co., of Vancouver, B. C., have been awarded the contract by the Canadian Pacific Railway for the construction of an irrigation canal along the Bow rever here. The work, which is very exten-sive, will be commenced in the spring and will require about two years to comsive, will be commenced in the spring and will require about two years to com-plete.—Business block for Alexander Allan: Architect, W. M. Dodd; con-tractor, F. Fairey. Building will be one storey, 130 x 80 feet, brick vencer, con-taining seven stores, with metallic ceilings, iron and plate glass fronts, cost \$20,000 \$20,000.

Thomas F. McGuigan, City Clerk of Vancouver, B. C., is authority for the statement that a cement mill is a much needed industry in British Columbia. The consumption of cement is increasing rapidly and there is only one plant on the Coast, nearly all the cement used coming from England or Germany. There is an abundance of suitable raw material.

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#### FIRES

FIRES. Cold storage warehouse at Trenton, Ont., owned by the Apple & Produce Cold Storage Co., rutuily destroyed; loss \$50,000.—Store of J. C. Trotter, Wood-stock, Ont., damaged to extent of \$20,000.—Flour mill at Morden, Man., owned by C. F. Heckels; loss \$10,000. —Four-storey brick building at 128 John street, Toronto. occupied by the Turnbull Elevator Co. and Geo. R Burt, piano manufacturer, damaged to extent of \$6,000.—Residence of Dr. Seager at Bridgen, Ont., completely de-stroyed.—Flax mill at Ripley, Ont., owned by the Ripley Flax Co.; loss, \$3,000.—Factory of the Berlin Felt Boot Co. at Berlin, Ont.; loss \$15,000. Building was owned by George and Oscar Rumpel.—Grand Trunk station at Glence, Ont.—Martin Block at Buck-ingham, Que., occupied by B. Paquet, shogmaker, J. B. Montpelier, confection-ery, Gorman Bros., wholesale liquor dealers, and E. Johnson, jeweller; loss \$15,000. \$15,000.



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Charlotte County Telephone Co., St. Stephen, N. B., incorporated, capital \$7,-500. Directors, Frank W. Andrews, J. E. Ganong and L. S. Mills.

Canadian Plumbing Improvement Co., St. John, N. B., incorporated, capital \$12,-000. John N. Smith and Matthew Harding, of St. John.

International Peat Co., Limited, Toronto, incorporated, capital \$250,000. Directors, Frank White, J. J. Main, Toronto, and others.

Deep Oil & Gas Co., Limited, Toronto, incorporated, capital \$100,000. Directors, Dr. Luke Teskey, C. E. J. Smith and others.

Cement, Stone & Building Co., Limited, Toronto, incorporated, capital \$50,000, to manufacture all kinds of building materials and to take contracts for building. W. D. McVey, H. H. Thomson, Robert Tag. gart, R. M. Young and Wm. McBean.

Double Use Mitten Co., Dundas, Ont., incorporated, capital \$100,000, to manufacture gloves and mittens. Directors, H. G. Smith, C. H. Frost and H. C. Gwin.

Toronto Furniture & Supply Co., Limited, Toronto, incorporated, capital \$100,-000, to manufacture furniture and house furnishings and supplies. Directors, T. Clarke, Thomas Walker and W. H. George.

National Typewriter Co., Limited, Toronto, incorporated, capital \$40,000. Directors, F. H. Hurlburt, W.A. Mills and Wm. York.

Tuf Sole Shoe Co., Limited, Toronto, incorporated, capital \$50,000. Directors B. L. Kennedy, S. I. Kennedy, J. W. Phillips and P. M. Goff.

Q. & C. Bonzano Rail Joint Co. of Canada, Montreal, incorporated, capital \$20,000. M. J. Holden, merchant, of Montreal; E. M. Smith, civil engineer, of New York; J. W. Woods and J. A. Ritchie, of Ottawa.

International Railway Bridge Co. of New Brunswick, seeking incorporation, to construct a railway bridge across the Restigouche river between Campbellton and Mission Point and to build a railway across said bridge. Arthur I. Trueman, Ottawa, solicitor for applicants.

Crowford Bay & St. Mary Railway Co., seeking incorporation, to construct a rail-

way from Crowford Bay, on Kootenay Lake, to Fort Steele, in district of East Koocenay, British Columbia, and to generate electricity. MacDonald & Winn, Rossland, solicitors.

Cedar Rapids Manufacturing & Power Co., Montreal, seeking incorporation, to develop water powers on the River St. Lawrence, in ccunty of Soulanges, Que. Barnard & Dessaulles, Montreal, solicitors.

A charter has been granted to A. B. Ormsby, Limited, with a capital of \$100,-000 and head office in Toronto, to carry on the business of a building contractor. The directors are A. B. Ormsby, S. A. Ormsby, T. A. Rowan, Norman Sommerville and E. Lackie.



# The Hamilton Bridge Works Company, Limited HAMILTON, CANADA

# NOTICE

Owing to the tremendous accumulation of snow, it is altogether likely that heavy floods will occur when soft weather comes in the spring. Even with ordinary conditions, many bridges are carried away by floods, and therefore, under the conditions that may be reasonably expected to govern the coming spring, it is likely that many bridges, that have stood through the floods of previous years, will be lost this year. We have provided for such a state of affairs and have put into stock about 3000 tons of steel, suitable for bridges of all kinds, and are prepared to furnish spans from standard lengths in the shortest possible time. Kindly keep this in mind, and if your municipality should require any bridges, communicate with us by telegraph or letter and we will give the matter our prompt attention.

HIGHWAY BRIDGES A SPECIALTY Large Stock I BEAMS, CHANNELS, ANGLES and PLATES **CENERAL STEEL CONTRACTORS** always on hand.

P. P. Giguere & Co., plumbers, Quebec, Que., have registered.

Wm. A. Cook has registered the busi-ness of the Glen Falls Portland Cement Company, Montreal.

McFurlane & Douglas, of Ottawa, are manufacturing fire resisting windows, a public test of which which was recently made. They are made of galvanized iron and specially prepared wired glass.

Speight & Van Nostrand

# LAND SURVEYORS, ETC. Room 405 Temple Building, TORONTO, CAN. Field Notes of the late F. F. Passmore. Manufacturers of L ERRICKS rons, Sheaves, Hooks and Sti



### CANADIAN CONTRACT RECORD

#### BUSINESS NOTES.

Park & Blackbourn, painters and decorators, Kamloops, B.C., have dissolved partnership, R. C. Blackbourn continuing.

The Plastererz' Section of the Toronto Builders' Exchange have arranged with the plasterers and lathers in their employ for a renewal of last year's wage schedule. It is announced that at the annual meeting of the National Portland Cement Company, Limited, the financial report submitted showed a net loss on the year's business of \$10,087.60.

The statement of the Canadian Scoria Block Company, of Toronto, which became financially involved recently, shows a deficit of \$11,000. The liabilities amount to \$17,000, while the present assets, consisting of machinery and buildings, are valued at \$6,000.

At the annual meeting of the Imperial Portland Cement Co., Limited, held in Owen Sound last week, a satisfactory report was submitted. The directors subsequently elected the following officers : President, Dr. Dow; vice-president, Matthew Kennedy; secretary, F. N. Donnelly.



# Pumps for Waterworks

Waterworks Systems Installed

Steam, Hydraulic, Electric, Gasoline, Air Lift and Automatic Rams.

Steam Boilers and Filters



#### February 24, 1904

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#### SEWAGE DISPOSAL AT PROVINCIAL GAOL, VICTORIA, B.C. By E. MOHUN, M. CAN. SOC. C.E.

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In October, 1901, the author received instructions to design and construct a sewage disposal system for the Provincial Gaol at Victoria. It was found that to connect with the city sewerage system would involve a large expenditure, and it was finally determined to dispose of the sewage on the gaol property of about twelve acres.

An examination of the existing work showed it to be in a most offensive and dangerous condition. The discharge was into an untrapped brick cesspool, the overflow from which ran into a field. Near the cesspool the ground was excrement sodden! and the odor three or four hundred feet away was something phenomenal when wafted on a favouring breeze.

The pipes, six-inch diameter, from the gaol had been laid regardless of grade and direction, and a very considerable per centage of them were broken. Under the circumstances the prevalence of disease was not sur, rising.

The daily flow of sewage varied from 1,200 to 1,800 gallons a day, which it was proposed to dispose of by surface irrigation. The soil was not an ideal one for such purpose, as it consisted of a stiff clay fit for brickmaking, with practically no loam on the surface, and it was with fear and trembling that surface irrigation was resorted to. Had that failed, double contact beds would have been the next method adopted.

In the first place, the cesspool and old pipes were entirely abandoned. New eightinch pipes, properly jointed, and laid true to grade and alignment, connected the buildings with a catch pit, about  $z_50$  feet distant. From the catch pit the sewage flowed into a septic tank o 1,550 gallons capacity, the effluent from which passed into a 636 gallon flush tank, discharging about twice a day. The contents of the tank, after passing through an aerating trough, charged a concrete conductor, from which the distribution channels on the surface of the ground were fed.

CATCH PIT-The catch pit is of brick in cement, three feet square, and is fed by an 8 inch sewer from the gaol. Its effluent discharges into the septic tank, at 2 feet 3 inches below water level, through a sixinch trapped pipe set in concrete in one corner. The catch pit might perhaps have been dispensed with, but, bearing in mind the mischievous proclivities of prisoners and the strong probability that all sorts of foreign substances would be wantonly thrown down the closets, it was considered advisable to construct one, and its adoption has been amply justified by results. The pit is cleaned out at short intervals. and its miscellaneous contents buried.

SEPTIC TANK—The tank is built of five parts of sea shingle and sand to one part of White's Portland cement. It is 6' by 8' inside, with nine-inch walls, and is smoothly cemented. The floor has a fall of in 18 towards the inlet. There are two half brick baffle walls to prevent any direct current between the inlet and outlet, and also to increase the length of channel, and afford better opportunity for the deposition

\*Paper read before the Canadian Society of Civil Engineers, Montreal.

of the matters in suspension. This plan appears to the author to combine the advantages of the usual long narrow tank with economy.

The outlet is of two-inch wrought iron pipe, H shaped, with an entering limb *z* feet 3 inches below the horizontal discharge, the end of which in the flush tank is tapped and, as the ends are open, no syphonage can occur, and any obstruction is easily removed.

ad. ank feet to inches is attained. The syphon is a six-inch Miller, discharging through a six-inch Miller, discharging through a isix-inch Miller, discharging through a isix-inch Miller, discharging through a trough. (To be Continued.) **JOHN GALT, C.E.&M.E.** MEM. CAN. Soc. C.E. AND C.E.A., ETC. **CONSULTING ENGINFER and EXPERT** National Trust Building Toronto Specialties—Water Supply and Sewerage.

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#### February 24, 1904

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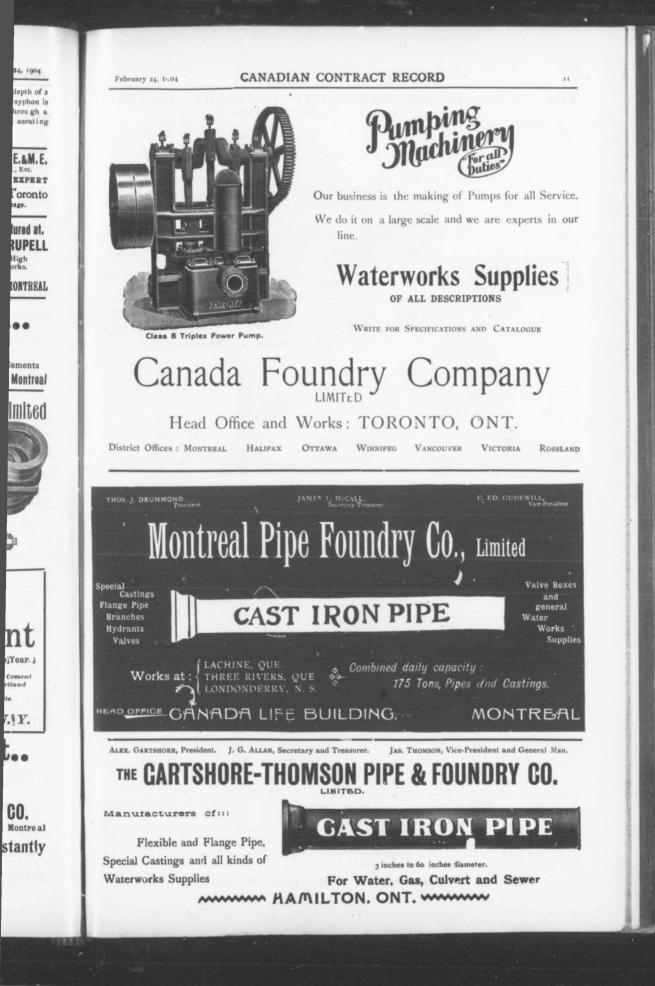
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