

CANADIAN CONTRACT RECORD

A WEEKLY JOURNAL

PUBLIC WORKS • TENDERS •
ADVANCE INFORMATION •
AND MUNICIPAL PROGRESS

EVERY WEDNESDAY

This paper reaches every week the Town and City Clerks, Town and City Engineers, County Clerks and County Engineers, Purchasers of Municipal Debentures and leading Contractors in all lines throughout Canada.

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THE CANADIAN CONTRACT RECORD, PUBLISHED EVERY WEDNESDAY

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WANTED—A FIRST-CLASS ARCHITECTURAL Draughtsman; one with experience required. Apply, stating terms, etc., G. M. BAYLY, Architect, Ottawa.

TO ARCHITECTURAL STUDENTS

A second course in water color drawing, under the direction of Mr. C. M. Manly, will be commenced in the rooms of the Ontario Association of Architects on Saturday next, the 25th inst. This course will be especially valuable to advanced students.

TENDERS

Will be received up to 5 o'clock on WEDNESDAY, THE 27TH JANUARY, for the erection of a

LARGE FRAME HOUSE

On Centre Island, Toronto. Plans and specifications to be seen and all information to be had at the office of the architect.

A. R. DENISON,
20 King Street West.

Lowest or any tender not necessarily accepted.

Notice to Artists and Designers

The undersigned has been instructed by the Board of Directors of the

King Edward Hotel, Toronto,

to receive colored designs for a "Coat of Arms and Crest" to be embodied in one design and emblematic of the name of the hotel, and to be of such a character of design that it can be used for decorative purposes, either in part or whole.

The Board offers the following premiums:
\$500 to be paid to the author of the first selected design.

\$300 to be paid to the author of the second selected design.

\$200 to be paid to the author of the third selected design.

The Board will appoint experts whose decision will be final, the designs selected to be the property of the Hotel Board.

Competitors are requested to submit their designs on mounted sheets, size 24" by 24". Design must be delivered under a motto representing the author, on or before the 27th DAY OF FEBRUARY, 1902. Any further information can be obtained at the office of the undersigned.

E. J. LENNOX,
Architect.

Southampton Waterworks.

STEEL TANK

AND

MASONRY TOWER.

Tenders will be received by James Howe, Esq., Town Clerk, Southampton, Ontario, up till FRIDAY, 7TH FEBRUARY, 1902, for supplying all material and doing all work complete.

For Steel Tank—erected.

For building Masonry Tower.

Plans required for each separately. Plans can be seen and full particulars obtained at Southampton or Toronto.

JOHN GALT, C.E. and M.E.,
Consulting Chief Engineer,
Toronto, Ont.

CONTRACTS OPEN.

SUNDRIDGE, ONT. — Improvements will be made to the veneer and box factory in the spring.

CALGARY, N.W.T.—It is understood that the Salvation Army contemplate building a fine barracks here.

WOLSELEY, N.W.T.—The farmers have decided to form a company to erect a grain elevator of 35,000 bushels capacity.

BLYTH, ONT. — Bainton Bros., whose tannery was burned, have purchased a site and will build a new tannery.

WINDSOR, ONT.—The plans prepared for the proposed library building call for a two storey brick structure, with basement.

WHITBY, ONT.—Bids are invited by John E. Farewell, county clerk, up to Friday, January 31st, for the purchase of \$16,000 debentures.

KINGSTON, ONT.—The students of Queen's University have already subscribed \$12,000 towards the erection of the proposed Grant hall.

TWEEDSIDE, N. B.—James Swan and Alex. Sawn are about to erect a steam saw mill here for the manufacture of lumber and excelsior.

WEBBWOOD, ONT.—The council will send a deputation to Toronto to ask the provincial government for a bridge across the Spanish river.

GLACE BAY, N. S.—The property known as the McPherson corner has been leased by S. Fried, who will erect two large buildings thereon.

PELLE ISLAND, ONT.—A by-law was carried here authorizing the corporation to bonus a steamship service to ply between here and the mainland.

PARIS, ONT. — T. McCosh, town clerk, invites tenders up to noon of Monday, January 27th, for the purchase of \$7,000 local improvement debentures.

ST. JOHN, N.B.—The New Brunswick Coal & Railway Co. have not yet let the contract for extension of their road to Fredericton.

HULL, QUE.—The Oblat Fathers have decided to erect a stone gateway at the entrance to the Catholic cemetery, to be 24 feet high, cost \$1,000.

GODERICH, ONT.—A scheme has been mooted to build a breakwater outside the harbor for the purpose of sheltering vessels seeking entrance.

MONCTON, N. B.—Plans are being prepared by a Toronto engineer for a steam plant and other improvements for the Intercolonial Railway here.

BROCKVILLE, ONT.—Commissioner Menish has been appointed to arrange for the repairing and retubing of two boilers in the electric light power house.

ST. GEORGE, N.B.—A syndicate of American capitalists has make an offer for the purchase of the Dewar lumber property for the purpose of establishing pulp mills thereon.

THOROLD, ONT.—Messrs. Patterson & Davidge are rapidly completing arrangements for the erection of a paper mill in connection with the Thorold Pulp Co.'s plant.

BELLEVILLE, ONT. — Gilbert Parker, M. P., has offered to build a new library building on condition that the corporation will take it over and make it a free institution.

FORT WILLIAM, ONT.—The Mayor has drawn the attention of the council to the necessity of constructing a waterworks system and further extending the sewerage system.

OWEN SOUND, ONT.—The plans are being prepared for altering and enlarging the Balmy Beach auditorium and for the installation of an electric plant for lighting the hotel and cottages.

ASHBURNHAM, ONT.—R. B. Rogers, in a paper read before the Ashburnham Civic Association, calls attention to the necessity of constructing sewerage and waterworks systems.

HALIFAX, N.S.—It is the intention of the Halifax Tram Co. to make extensive improvements to the lighting department of their plant. It is also probable that another battery of boilers will be installed.

WENTWORTH, N.S.—C. A. Meserve, manager of the Boston & Nova Scotia Wood Pulp Co., is in consultation with New York capitalists regarding the question of starting work on the building of the pulp mill.

LONDON, ONT.—H. C. McBride, architect, is calling for tenders for alterations to two stores on Dundas street for J. C. Wood.—Work will shortly be commenced on the new warehouse on Richmond street for the Frost & Wood Company; estimated cost, \$5,000.

RICHMOND, QUE.—L. A. Vallee, engineer of the Quebec Public Works Department, recently inspected the various sites suggested for the new bridge between Richmond and Melbourne, towards which the Government has offered \$15,000.

BERLIN, ONT.—A deputation has been appointed to wait upon the government to discuss the improvement of the sewage system of the town.—The Berlin & Bridgeport Electric Railway Co. have elected W. H. Breithaupt as president. It is the intention to build the road this year.

RAT PORTAGE, ONT.—Major A. Carmichael contemplates building a three storey brick block on Main street.—A deputation from this vicinity last week waited upon the Ontario government requesting aid for the \$12,000 bridge across the Winnipeg river between Rat Portage and Keewatin.

ST. MARYS, ONT.—J. A. Humphris, architect, has plans out for brick residences for Dr. Smith, cost \$3,500, and for Ernest White, to cost \$3,200. Same architect is preparing plans for residences for Mrs. F. Farr, to cost \$2,000, Thomas Tremble, to cost \$1,200, and J. Billing, to cost \$1,000.

KASLO, B.C.—The city council will likely take steps this year to build a combined fire and drill hall.—Negotiations for the erection of a 200-ton smelter and refinery here have been concluded by a Glasgow syndicate represented by T. B. Stewart.

SAULT STE. MARIE, ONT.—A committee of St. Andrew's Presbyterian church will meet at an early date to consider the building of a new edifice.—R. H. Shrigley will build a new residence on Wellington street.—A London gentleman is considering the building of three stores, 35x100 feet, opposite the jail in this town.

NELSON, B.C.—A steel bridge is to replace the wooden structure across the Kootenay river a few miles south of this place. A steel bridge may also be built at the Slokan crossing.—The Public Works Department at Ottawa will take steps to remove the obstacles to navigation at the Narrows at the Arrow Lake.

NORTH SYDNEY, N.S.—W. A. McKay has been in town inspecting the electric light plant which his company expect to take over on February 1st, and which will be completely remodelled.—It is reported that Vooght Bros. intend to install an electric light plant in the departmental store that they are to erect in the spring.

NIAGARA FALLS, ONT.—It is rumored that the Bank of Hamilton will make extensive alterations to the Ganter block which they purchased recently.—The by-law to grant a bonus of \$2,500 to the McPherson Switch & Frog Co. will be submitted to the ratepayers on February 24th.—A number of local capitalists purpose erecting dwelling houses next spring.

ORILLIA, ONT.—At a special meeting of the vestry of St. James church held last week, the church-wardens were authorized to borrow \$3,500 for the purpose of erecting a new Sunday School building and putting in a new pipe organ, J. G. Sing, of the Dominion Public Works Department, took soundings last week for a wharf at Couchiching Beach Park, for which he has been instructed to prepare plans. The wharf will be 200 feet in length, on concrete piers.

FERGUS, ONT.—A cold storage and abattoir company, formed here, have instructed G. M. Bayley, architect, of Ottawa, to prepare the necessary plans, etc., for their building. The cold storage part of the work is to be erected accord-

ing to the Hanrahan system (J. F. Hanrahan, Ottawa), which system is the one adopted by the Ontario government. The system is also in use in lumber kilns, laundry driers, etc., with extraordinarily good results.

SYDNEY, N.S.—Capt. John Carlin proposes to erect on Carlotte street a three storey brick building, 83 x 75 feet, with marble and glass front, for which plans are now being prepared. Building operations at this place are expected to be very brisk next summer.—The Nova Scotia Steel & Coal Co. have decided to develop coal areas at Sydney Mines. A branch railway two miles in length will be constructed.—The Cape Breton Electric Co. are about to commence the construction of proposed tramway.

VICTORIA, B.C.—It is reported that Matthew & Son, builders, of this city, are about closing negotiations with a British syndicate for the erection of fifty good-sized houses in this city during the next two years.—The contract has not yet been awarded for the new cable station. Plans were prepared by Thomas Hooper, architect, of this city.—The city engineer has communicated with a number of bridge experts throughout the United States and Canada regarding the preparation of plans for the superstructure of the Point Ellice bridge, the idea being to have the substructure built by day labor.

COLLINGWOOD, ONT.—The council has recommended that the Public Library Board have plans prepared immediately for the proposed library building.—The council will advertise for sites on which to build the proposed grist mill and the new premises of the Zock Jewelry Co.—Among other matters to be considered by the council this year will be the rebuilding of the town wharf, the heating of the municipal buildings, and the construction of additional sewers.

ST. THOMAS, ONT.—In his inaugural address to the city council the Mayor recommends that steps be taken to secure the establishment of a quarantine station here, and that a committee be appointed to secure the extension of the street railway system.—Thomas Bros., of Norwich, purpose making the buildings to be built here larger than was at first intended. The plant will cover an area of 200 square feet and will be three storeys high throughout. They purpose manufacturing washboards, butter boxes and box shooks for the export trade.

VANCOUVER, B.C.—The by-law to provide a site for new hospital was carried by the ratepayers on the 10th inst.—It is stated that David Spencer, of Victoria, has decided to erect a fine building on his property on the south-west corner of Hastings and Homer streets in this city.—The Minister of Public Works has advised the Board of Trade that the question of building a new federal building here will be considered immediately.—Work will be commenced at once to build a brick and stone hotel on Water street, to contain 29 bedrooms, dining room and billiard parlor. The present lessee of the Western Hotel will take over the new house.

HAMILTON, ONT.—The trustees of Erskine church have decided to renovate the church and remodel the galleries, at cost of \$2,000.—It is the intention of the Sewers Committee to commence work on the proposed trunk sewer as soon as possible.—G. M. Mills, architect, has prepared plans for four handsome houses to be erected on York street by Thomas Crooks, for which contracts will be awarded in a few days. Mr. Mills has also in hand a new store for the Fowler Canadian Co., to have plate glass windows and marble counters and fittings,

also extensive alterations to foundry of the D. Moore Company.—The authorities of St. John's Presbyterian church have decided to install a new organ, at a cost of \$1,800.

WINNIPEG, MAN.—The city clerk is this week taking tenders for the construction of a sewer along Spence street from Portage avenue to Broadway.—The Elmwood Cemetery Co. are taking tenders for sewer construction.—It is said that the estimates of the Canadian Pacific Railway for this year may provide for a new station in this city.—The Attorney General's department has drawn the attention of the city council to the necessity of building a morgue.—Charles Chamberlain has just returned from New York, where he is said to have completed arrangements with capitalists for the erection of pulp and paper mills and the development of 100,000 horse power on the Winnipeg river, 65 miles from this city.

OTTAWA, ONT.—It is probable that the Presbyterians of the Glebe will build a new church in the near future.—The Department of Railways and Canals are asking for tenders up to Wednesday, 29th inst., for widening and strengthening the north bank of the Cornwall canal, east of Pitts street, in the town of Cornwall.—In his inaugural address the Mayor emphasized the importance of building a bridge over the canal at Somerset street and or extending the water service to the rifle ranges.—The Board of Trade will probably take steps to erect a building for the purposes of the Board.—James and George Clarke, of New York city, and Thomas Meaney, of Toronto, will apply to the Dominion Parliament for an act incorporating a company to develop water powers and construct railways, wharves, pulp mill, etc.—Incorporation has been granted to the Pontiac Power Co., capital \$100,000, head office in this city. Louis Simpson and J. C. Brooke are interested in the company.

QUEBEC, QUE.—The civic authorities have decided to expend \$50,000 this year upon the proposed park on the Plains of Abraham.—It is understood that A. A. Masservey has purchased the Pageau property, corner St. Stanislas and Elgin streets, and will build a terrace of houses in the near future.—It is understood that the Marine Department has decided to erect a permanent pier at the Lower Traverse. Work on the structure will be commenced immediately.—A representative of the Dominion Coal Co. has interviewed the harbor commissioners respecting the lease of a portion of the Louise Basin. If satisfactory arrangements can be made, the company will establish a plant here for distributing purposes, at a cost of \$75,000.—It is said that J. Lane has transferred his franchise for an electric railway from Three Rivers to Shawinigan Falls to the Belguim Syndicate, of the latter place, who will commence the work at once.—Roy & Cannon, solicitors, will apply for the incorporation of the New Richmond Timber Co., to build pulp and paper mills.

MONTREAL, QUE.—R. J. Inglis has decided to erect a four storey building on the north side of St. Catharine street, between Tooke Bros. and the Marler building. The plans prepared by McVicar & Heriot, architects, show a four storey structure of Indiana limestone. There will be two large stores on the ground floor, passenger elevator, steam heating, and improved plumbing. The main store will be finished in quartered oak, with tapistry fabrics on the walls, and heavy oak ceiling. The store on the east side will be finished in whitewood. The upper store will be laid out for business offices.—U. H. Dandurand states that he is negotiating for property in the east end on which a syndicate desires to

establish immense works. It is understood that the syndicate is the Canadian Pacific Railway, which purposes doubling the capacity of their car and locomotive shops.—It has been decided to complete the double-tracking of the Grand Trunk Railway between this city and Chicago. The equipment of the system will also be added to.—The directors of the Montreal Light, Heat & Power Co. have been authorized to issue \$2,500,000 of debentures, \$500,000 of which will be expended in extending the works of the company.—At a meeting of the shareholders of the Quebec Southern Railway, held a few days ago, it was stated that the road would be extended from Sorel to Lévis at once.—The city council has granted the Montreal Terminal Railway a franchise to enter the city and construct a single track.—Greenshields, Greenshields & Henicker, solicitors, of this city, will apply to the Dominion Parliament for an act authorizing the Three Rivers and North Shore Electric Railway Company to extend its railway from the city of Three Rivers along one or both sides of the river St. Maurice to the village of Shawinigan Falls, a distance of 25 miles.—The Canadian Pacific Railway Co. will apply to Parliament for a charter to construct a railway from Piles Junction to Shawinigan Falls and Grand Mere, a distance of 24 miles.—A new building committee will be appointed to select a site for the church to be built by the congregation of Oliver Baptist church.—The city council has entered into an agreement by which the Union Abattoir Co. will build an abattoir in Point St. Charles, at a cost of \$100,000.

TORONTO, ONT.—C. J. Gibson, architect, has prepared plans for a summer residence for a Pittsburg gentleman near Beaumaris, Muskoka. The house will be erected on an island of 40 acres, about a mile from Beaumaris, and will cost about \$80,000. Mr. Gibson's commission includes the building of wharfs, ice-houses, etc., and the purchase of a steam yacht. Work will be commenced as soon as possible, so that the house may be ready for occupation next summer.—It is reported that the York County Loan & Savings Co. will next spring erect a large office building, on the south side of Queen street, opposite Chestnut street.—The Sovereign Bank will on February 1st take possession of the building adjoining the Manning Arcade now occupied by C. J. Townsend, auctioneer. Extensive alterations will be made to the premises.—The authorities of St. James Cathedral have decided to build a new rectory on the site of the old rectory on Adelaide street, at a cost of \$10,000.—At a joint conference last week of the Toronto Exhibition Board and the Parks and Exhibition Committee of the City Council, the initial steps were taken towards the erection of new buildings at the Exposition grounds, for which an expenditure of \$133,500 has been authorized. It is probable that the plans prepared last year will be accepted. The plans for the main building were drawn by Gouinlock & Baker; the dairy building by Gregg & Gregg; and the art gallery by Beaumont Jarvis.—The City Engineer has recommended the construction of the following local improvement works: Asphalt pavement on Baldwin street, Spadina to Augusta, cost \$4,750; tar macadam roadway on McPherson avenue, Avenue Road to a point 629 feet 7 inches east, cost \$2,760; concrete sidewalks—Carlton street, south side Sackville to Gifford, \$342; Lansdowne

avenue, west side, Blqoi to Jeanette avenue, \$347; St. George street, west side, Bernard to Dupont, \$1,645; Wellesley street, north side, Jarvis to Homewood, \$59; Wellington Place, north side, Spadina to Portland, \$1,274; First avenue, south side, Degrassi to Logan, \$705; Elliott street, north side, Broadview to Bolton, \$592; Brook avenue, north side, Howland to Logan, \$684; Wellesley street, north side, from 124 feet west of Parkview avenue to 126 feet east of Parkview avenue, \$249; King street, north side, Power to Sackville, \$1,171; Sherbourne street, west side, Queen to Wilton avenue, \$1,189; Parliament street, east side, Winchester to Amelia, \$454; Bellevue avenue, east side, Bellevue Place to Oxford street, \$1,469; Huron street, west side, D'Arcy street to a point 145 feet north, \$163.—Tenders are wanted by R. Rutledge & Son, Toronto Junction, for plastering and carpenter work.—The City Engineer has recommended the construction of a garbage destructor on the Island, at a cost of \$2,000.—It is expected that the provincial estimates will contain an appropriation of \$20,000 for dredging in Lake Temiscamingue.—Gordon & Hellwell, architects, are taking tenders up to noon to-day for painting and glazing of a house on Crescent road.—The Ontario Government estimates were laid on the table of the

House on Monday last. The chief expenditures on capital account are \$100,000 towards the new science building, to cost \$200,000, for the University of Toronto, \$15,000 to complete the infirmary at London Asylum; \$19,450 to complete the buildings at the Cobourg Asylum, and \$11,000 for lock extension and reconstruction of swing bridge at Port Carling. The expenditure on colonization and mining roads includes \$15,000 for Temiscaming road, \$20,000 for new short roads and repairs, \$10,000 for mining roads and \$5,000 for the Rainy River District road.—The following building permits have been granted: Alice Brown, pair semi-detached, two storey and attic brick and stone dwellings, west side Albany avenue, near Barton avenue, cost \$4,500, (N. H. Bradley, architect; William White, builder); Trustees Macpherson Estate, two storey and attic brick and stone dwelling, west side Cluny avenue, near Crescent Road, cost \$6,000 (S. H. Townsend, architect; Orr Bros., contractors); Douglas K. Ridout, two storey and attic brick residence, north side Crescent Road, near Yonge street, cost \$5,000 (S. H. Townsend, architect; James Stewart, builder); Corporation of Toronto, two storey brick offices and a bank, Wellington avenue, on Stanley Park, cost \$10,000 (A. R. Denison, architect; H. Lucas, builder); Will-

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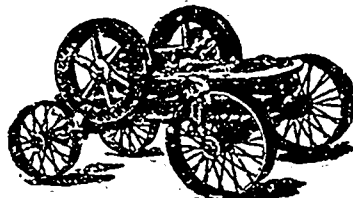
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MUNICIPAL DEBENTURES BOUGHT

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

am Clark, pair two storey and attic, semi-detached brick dwellings, east side Shaw street, near Bloor street, cost \$2,000; W. J. C. McCrear, pair semi-detached two storey and attic brick dwellings, north side Winthrop avenue, near Broadview avenue, cost \$6,000 (S. H. Moorehouse, architect; Charles Bulley, builder); Fairles Milling Co., one storey brick store, 556 Dundas street, cost \$2,000 (John E. Webb, builder); Joseph Henderson, pair semi-detached two storey and attic brick dwellings, corner Maple avenue and Glen Road, cost \$8,000 (F. H. Herbert, architect; Smith & Wood, builders); Brickenden Bros., six attached two storey brick fronted dwellings, east side Logan avenue, near Eastm avenue, cost \$4,800, (Walter Nash, builder); Dominion Government, repairs and alterations to the Armouries, University street, cost \$2,000.

FIRES.

Residence of A. Lefrancers at Chateau Richer, Que.; totally destroyed.—Residence of John Schofield at Pelee Island, Ont.—Distributing station of the Royal Electric Company, Montreal, damaged to extent of \$50,000; covered by insurance.—Residence of R. R. Mackenzie at Boulardene, N. S., totally destroyed; loss \$2,000.—Residence of Mrs. A. Drew, one mile east of Oshawa, Ont.; loss \$2,000.—The Sherbrooke Hotel at Sherbrooke, Que., almost totally destroyed; loss about \$15,000.—Store of A. Zeiger, furrier, 250 Yonge street, Toronto; damaged to extent of \$5,000.—Residence of J. P. Featherstone, registrar of the High Court at Ottawa, damaged to extent of \$3,000.

CONTRACTS AWARDED.

LISTOWEL, ONT.—The council have sold \$10,000 debentures to W. C. Kent.

COLLINGWOOD, ONT.—The contract for new two storey brick residence of B. F. Lewis has been given to J. Sterman.

VICTORIA, B. C.—Laurie & Colby are the successful tenderers for erection of club house for the Victoria West Athletic Club.

PETERBOROUGH, ONT.—The contract for the wire for the transmission line of the Otonabee Power Co. has been given to the Dominion Wire Co., of Montreal.

SYDNEY, N. S.—The Cape Breton Electric Co. have given to the Canadian General Electric Co., of Toronto, the contract for the electrical equipment of proposed tramway.

SAULT STE. MARIE, ONT.—Inventor George A. Cox, of Toronto, has purchased \$60,000 per cent. sewer debentures, for \$57,000. The school bonds of \$5,100 were sold at par.

OWEN SOUND, ONT.—The Dominion government has let the contract for light house at Cape Croker to Alex. Keen.—Henry C. Wood has commenced reconstruction of the steam barge by Smith.

ST. JOHN, N. B.—B. Mooney & Co. have secured the contract for erection of brick building on Charlotte

street for Charles S. Everett.—William Lewis & Son, this city, will supply the bolts and castings for the New Brunswick Coal & Railway Co.

LONDON, ONT.—Herbert Matthews, architect, has accepted the following tenders for alterations to residence on Talbot street for J. Coote: Mason and brick work, Everett & Sing; carpenter work, J. Hook; galvanized iron and heating, W. Wyatt & Son; plastering, B. Gash; painting and glazing, Scranton & Erskine.

TORONTO, ONT.—The Ontario Wind Engine & Pump Company, Limited, of Toronto, have recently been given the contract to build one of their 12 ft. Canadian air motor submarine outfits for the government house on the island of Cyprus, in the Mediterranean.—The contract for a new organ for St. Peter's church has been given to Breckles & Matthews.

NIAGARA FALLS, ONT.—The Canadian Niagara Power Co. have just awarded the contract for the construction of the wheel pit and intake canal of the Canadian works, Dawson & Reilly, of St. Catharines, being the successful tenderers. The wheel pit will be 175 feet long, 160 feet deep and 20 feet wide. The intake canal will be 600 feet wide where it comes from the river and 14 feet deep. The contract amounts to upwards of \$500,000.—L. J. Webber has given out contracts for new residence as follows: Brick work, John T. Blair; wood work, Waugh & Robertson.

RAILWAY BUILDING.

While the year just ended has been one of great activity in railroad building in the United States, it was one of comparative inactivity in Canada, and outside of the Canadian Northern the mileage constructed has been light. This company laid about 250 miles and graded an additional 56 miles, as follows:

Atrokhram to Beaudette—86 miles.

St. Charles to Carmen—52 miles.

Beaverto Minnedosa, grading—56 miles.

Mr. W. F. Tye, chief engineer of construction of the Canadian Pacific, reports the following grading work during the year:

West Selkirk extension—26 miles.

Forest extension 42 miles.

Webbwood extension—10 miles.

Washada extension—20 miles.

Sunliuke extension—10 miles.

Kootenay and Arrowhead, B. C.—35 miles.

Field cut off—7 miles.

And the following track laid: forest extension—20 miles.

Kootenay and Arrowhead—25 miles.

The Grand Trunk has not during the year laid any new extension beyond the double tracking between Montreal, Toronto and Chicago and Port Huron. In the former section the double tracking is completed with the exception of a short distance west of Belleville.

The Cape Breton railway has built over a hundred miles and graded 40 miles.

In the United States, railway building was greater in 1901 than has been for eleven years past, the total approximating 5,057 miles of line. In 1890 the total was 5,670, and in 1900 it was 4,437 miles. The construction for the year added to the total mileage reported previous to that brings the total mileage of the country to approximately 190,370 miles. The South-West takes the palm for the year, Texas leading with 583 miles of new line distributed among 23 roads. Had it been possible to obtain rails the construction would have largely exceeded the figure.

During the year the various car building works in the United States and in Canada will have built 150,000 cars of all kinds, the largest output of any one year, and 20,000 in excess of last year. These figures do not include cars built by railroads at their own shops. Of this number 130,000 were freight, 2,080 passenger, 508 street cars for use on this continent; 4,385 freight, 85 passenger and 507 street cars for export.

Orders for 196,000 freight cars are at present on the books of construction companies.

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BUSINESS NOTES.

Bishop & Gilsby, plumbers, Greenwood, B. C., have dissolved.

The New Ontario Builders & Contractors Supply Company, Limited, has been incorporated, with head office at Sault Ste. Marie, Ont. The capital is \$20,000.

The **CENTRAL CANADA** **LOAN AND SAVING COMPANY**

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BONDS

DEBENTURES

Municipalities contemplating the issue of Debentures will find it to their advantage to communicate with

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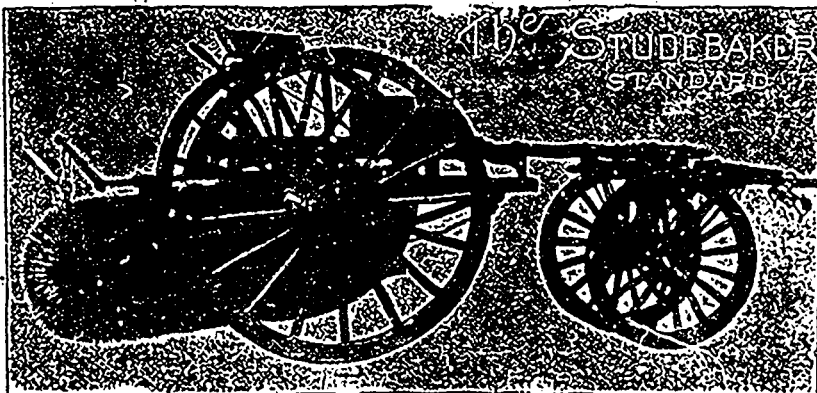
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CONTRACTORS' LOSSES AT THE PAN-AMERICAN EXPOSITION.

The closing of the Pan-American Exposition brought to light a condition of affairs which tends to throw some discredit on the management of the Exposition, and at the same time it is hoped will serve as a warning to those members of the building trades who may be asked to bid upon the erection of buildings or to do other work for expositions of similar character in the future. The expenditure in preparing for these expositions have grown out of all proportions to the receipts that can possibly be expected from admissions and other sources. The Buffalo Exposition has gone beyond all its predecessors in failing to meet its liabilities, the losses being over \$4,000,000. These losses do not all fall upon the stockholders of the enterprise, but over \$700,000 falls upon the different building trade contractors who were engaged in the erection of these beautiful pleasure palaces. We were informed in September by one painting contractor who had been employed in the decoration of several of the most important of the buildings, says the Painters' Magazine, that the Exposition Company then owed him a balance of \$26,000 on his contracts. He had hoped to receive half of this, but it is doubtful whether he obtained even this much of the balance due him. In any event his losses were heavier than the average painter could stand with a smiling face. This experience of the Buffalo building contractors should teach a lesson to those asked to bid on similar expositions in the future, and should cause the successful bidders to insist upon a guarantee that their money would be paid in full on completion of their work, before signing any contract. As these expositions are usually held in public parks, the provisions of the lien laws that apply to ordinary building operations are of no assistance to the contractors, who cannot recover by any legal process for the labor and materials they have furnished.

Scott & Gray, builders, McLeod, N. W. T., have dissolved partnership.

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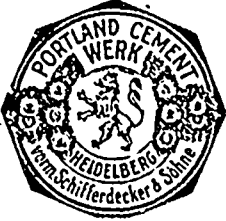


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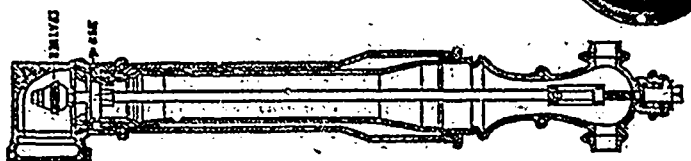
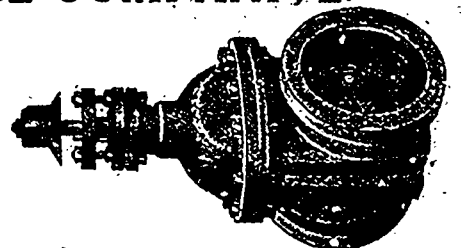
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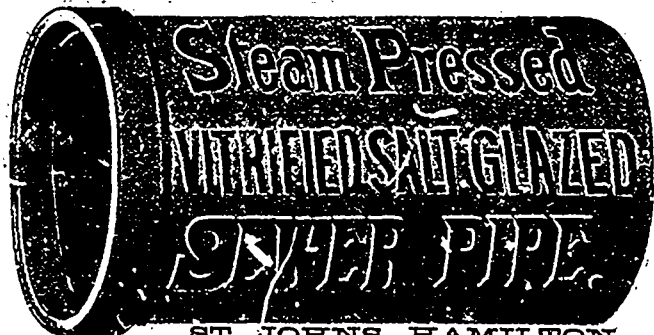
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SEWAGE DISPOSAL IN WESTERN ONTARIO.*

By W. M. DAVIS, C.E., BERLIN
(Continued from last issue.)

The bed was put in operation in August, 1900, and the beds later in the fall. The first noticeable effect was the abatement of the intolerable stench which at that time prevailed in the vicinity. The greater part of the suspended matter was removed from the sewage, the effluent looked like soap-suds and had a musty smell, a thin scum formed on the surface of the sewage in the tank. For the first five months the amount of sludge deposited in the main chamber was not more than 18". The beds were cropped as proposed and were irrigated at first with the raw sewage and afterwards with the septic effluent. The vegetables grown, chiefly mangel wurzels, were of excellent quality and the yield was good; some \$200 were realized from their sale, so that the work of 1900 may be considered as fairly satisfactory.

During the winter of 1901 it was observed that the deposit in the tank had seriously increased until in February there was so much sludge that the sewage in passing through the tank formed a narrow channel for itself and came out of the tank without any perceptible change. It is probable that this falling off in the efficiency of the tank was caused partially by antiseptics from the chemical and gas works which checked putrefaction in the tank, and partially by the tank being over-worked, but as no steps have been taken to determine the causes which have produced this result, it is impossible to speak with certainty. There being a demand among farmers for the sludge it was decided to put in a pump and clean out the tank as often as might be necessary, without bothering about the reasons for this necessity, or expending money in engineer's fees.

A recent measurement of the quantity of sewage shows the present dry weather flow to be 327,000 gallons per 24 hours, an increase of about 5% since the autumn of 1899.

The bacteria beds at present receive a dose of about 35,000 gallons each of the effluent per 24 hours or at the rate of about 420,000 gallons per acre per 24 hours, which, considering the nature of the effluent, would be rather a high rate. The beds have not decreased in capacity though in use nearly eight months; two or three inches of the gravel on top is sometimes clogged, but raking and a day's rest always relieves it.

The filtrate from the beds is colourless and almost odourless. The cost of the tank, which is built of concrete, was \$1,420, and of the beds \$1,025.

It would appear from these facts that in Berlin the solution of the disposal problem is in the extension of the existing works. The disposal plant in the city of Stratford,

consisting of a septic tank and 2 coke bacteria beds, was constructed by Capt. VanBuskirk, and has been in operation since 1899. This work was also of a tentative character, but too great demands were made on it and the results last winter were similar to those in Berlin.

The system at the Asylum for the Insane in London has long passed the experimental stage, having been in successful operation for 13 years. The sewage is collected in a tank in rear of the buildings and then pumped to the disposal field; vegetables of all kinds are grown with profit, and the sewage of a population of 1,500, amounting in volume to 100,000 gallons per 24 hours, is disposed of on a field of 6 acres.

There is absolutely no nuisance. The farm is an object lesson of the practical utilization of sewage. A large revenue is annually derived from the land, which is sandy loam and admirably fitted for the purpose.

The city of London is now carrying out a system designed by Mr. Willis Chipman. The sewage is carried to some distance from the city and is intended to pass through a detritus chamber and thence to coke filter beds, the filtrate being discharged into the Thames. The result will be watched with interest.

Work of this nature is in its infancy on this continent; but each year adds to our store of reliable data. We learn as much from the failures as the successes, though perhaps the latter are given more prom-

inence. In Europe, where they have had long experience, the conditions are different from ours that the results are misleading. For this reason our most trustworthy knowledge is gained in the school of our own experience.

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The new electric fire pump, which contains 100 gallons of water and is ready to start for a fire at any moment, is proving quite a success at Paris. It has an electric outfit on the Bouquet, Garcin and Schivro system, with the necessary storage batteries. The report of the colonel of the firemen's regiments points out an instance where the new fire pump rendered an important service. Owing to the fact that it arrived quickly at the fire with its water reservoir and its pumps all ready to act, it was the means of preventing the explosion of a cellar full of chemical products. The report states that the horse fire engine would have arrived too late, and that the hose could not have been coupled to the nearest fire plug in time to prevent the explosion.

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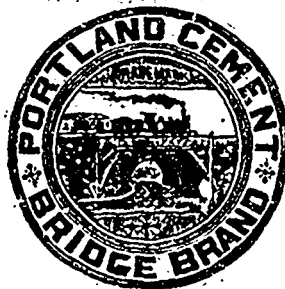
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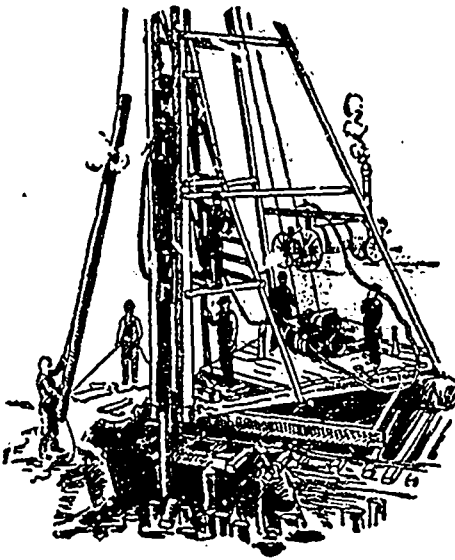
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