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CANADIAN CONTRACT RECORD

A WEEKLY JOURNAL OF PUBLIC WORKS AND TENDERS

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.

Vol. 9.

SEPTEMBER 21, 1898

No. 34.

THE CANADIAN CONTRACT RECORD, PUBLISHED EVERY WEDNESDAY

As an Intermediate Edition of the "Canadian Architect and Builder."

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C. H. MORTIMER, Publisher,

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Telephone 2162.

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Bell Telephone 2299.

Information solicited from any part of the Dominion regarding contracts open to tender.

Advertising Rates on application.

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TOWN DEBENTURES

Tenders will be received by the undersigned up to 1st OCTOBER, 1898, inclusive, for the purchase of DEBENTURES of the Town of Deseronto for \$25,013.66, bearing 4 per cent. interest, repayable in thirty yearly instalments.

The lowest or any tender not necessarily accepted.
F. S. RATHBUN, Treasurer,
Town of Deseronto.

TENDERS WANTED

The Town of Cobourg, Ontario, will receive separate tenders, addressed to John Purser, Chairman of the Fire, Water and Light Committee, until 12 o'clock noon, of the 31st OF OCTOBER NEXT,

1st. For the Supply of Water for Fire Protection and Public Use, and
and. For Lighting the Streets of the Town.

For particulars address the undersigned.

D. H. MINAKER,
Town Clerk.

Cobourg, Ont., Aug. 30th, 1898.

TENDERS for City of Calgary DEBENTURES

Sealed tenders, marked "Tender for Debentures," will be received at the office of the undersigned up to the FIRST OF OCTOBER, 1898, for the purchase of \$25,000 CITY OF CALGARY DEBENTURES. Said Debentures are redeemable in twenty-five years from the first day of September, 1898, and bearing interest at the rate of four per cent. per annum, payable half-yearly.

The highest or any tender not necessarily accepted.

C. McMILLAN,
City Clerk.

Calgary, Alberta, 26th August, 1898.

THE CORPORATION

OF THE

City of Three Rivers

Sealed tenders, for the Construction of a PIER AND SUCTION PIPE into the River St. Maurice, in this City, will be received by the undersigned up to the

26th SEPTEMBER, 1898, AT 7 O'CLOCK, P.M.

Plan and specifications may be seen at the office of the undersigned.

Tenders must bear the bona fide signature of the contractor, and must be accompanied by an accepted cheque made payable to the order of the Corporation of the City of Three Rivers, equal to five per cent. of amount of the tender. This cheque will be forfeited if the party declines the contract or fails to complete the work contracted for, and will be returned in case of non-acceptance of tender.

The lowest or any tender not necessarily accepted.

I. T. DESAULNIERS,

Sec.-Treas. T.R. Corporation.

City Hall, Three Rivers, 14th Sept., 1898.

CITY OF BRANTFORD

FLOOD PREVENTION WORK

Sealed tenders, endorsed "Tender for Flood Prevention Work," and addressed to Charles Whitney, Esq., Chairman of the Board of Works, Brantford, Ont., in care of the City Clerk, will be received till two o'clock in the afternoon on

SATURDAY, OCTOBER 1st, 1898,

for the following work :

Section "A"—Concrete Pier, Abutment of Stone and Concrete.

Section "C"—River Excavation, Embankments and Rip Rap Walls.

Section "D"—Timber Sluiceway Dam, 169 Feet in Length.

Plans and specifications may be seen, and forms of tender obtained, at the office of the City Engineer, Brantford, on and after Sept. 17th, 1898.

A deposit in the form of a marked cheque, payable to the order of the City Treasurer, for the sum of 5 per cent. on the value of the work tendered, must accompany each and every tender, otherwise they will not be entertained.

The lowest or any tender not necessarily accepted.

CHARLES WHITNEY,

Chairman Board of Works.

T. HARRY JONES,

City Engineer.

City Hall, Brantford, Sept. 13th, 1898.

AN EXPLANATION.

In order to prevent any misapprehension, the Phoenix Bridge and Iron Works, of Montreal, desire the CONTRACT RECORD to state that the contractors for the bridge at Cornwall which collapsed recently was a United States concern of similar name, with which the Montreal firm are in no way connected.

John Robinson, contractor, has commenced business at Cascade City, B.C.

CONTRACTS OPEN.

SOUTH UNIACKE, N.S.—H. Laws purposes building an hotel here.

HESPELER, ONT.—E. S. Beer will erect a brick residence on Cooper street.

ELMIRA, ONT.—Mr. Zilliax, whose hotel was burned recently, will rebuild immediately.

HARTLAND, N. B.—Keith & Plummer are about to commence the erection of a new store.

AURORA, ONT.—J. Fleury's Sons are preparing to make additions to their machine shop.

SEBRINGVILLE, ONT.—It is the intention of S. Brickman to erect a new building this fall.

OWEN SOUND, ONT.—J. P. McBeth is organizing a joint stock company here to manufacture chairs.

LINDSAY, ONT.—Estimates of the cost of granolithic walks have been submitted to the town council.

DAUPHIN, MAN.—Tenders have been taken by S. Geekie for the erection of a Presbyterian church.

STE. EMELIE DE L'ENERGIE, QUE.—Messrs. F. Basinet and M. Dufresne are about to build residences.

FREDERICTON, N.B.—The city council has decided to defer the purchase of a road roller until next year.

GUELPH, ONT.—Robert Stewart, of the Guelph planing mills, has commenced the erection of an addition to his mill.

SAULT STE. MARIE, ONT.—A charter for a steam or electric railway from this place to Michipicoten has been applied for.

AMHERSTBURG, ONT.—It is stated that J. H. Bishop, of Wyandotte, Mich., has decided to establish a branch factory here.

CARMAN, MAN.—The Sons of England are applying for incorporation for the purpose of erecting a hall; capital stock, \$5,000.

ST. THOMAS, ONT.—Bell & McCubbin, civil engineers, are preparing plans for a new steel bridge, 66 feet long, to be built at Delhi.

STE HILAIRE, QUE.—The Hamilton Powder Co.'s mills at Boloecil were almost totally destroyed by an explosion a few days ago.

GRAND FORKS, B.C.—The citizens are endeavoring to secure the establishment of a bank and the erection of a smelter at this place.

YARMOUTH, N.S.—There is said to be a possibility of the Yarmouth electric railway being extended to Port Matland next spring.

GALT, ONT.—A by-law to provide \$12,000 for a new fire hall and repairs to bridges was carried by the ratepayers on Monday last.

BOLTON, ONT.—On the 28th inst. the ratepayers will vote on a by-law to raise

\$16,000 for the construction of a water-works system.

CROOKSTON, ONT.—James Curly is preparing to erect a building.—Mr. Ramsay has commenced work on the erection of a residence.

MITCHELL, ONT.—A by-law will be submitted to the ratepayers to provide for borrowing the sum of \$5,000 for sidewalk improvements.

BETON, ONT.—Offers are wanted by the village up to October 15th for the purchase of \$3,500 of debentures. Address, Joseph Wright, Clerk.

ST. HYACINTHE, QUE.—Mr. L. Z. Gauthier, architect, of Montreal, will shortly submit to the Council of this place plans for a new central market.

HICKSON, ONT.—Some citizens have been negotiating for the construction of a telephone line to connect this village and Tavistock, a distance of six miles.

CHATHAM, ONT.—J. L. Wilson & Son, architects, are taking tenders this week for the erection of a brick veneer residence on Joseph street, North Chatham.

WOODSTOCK, N. B.—Proposals are invited by George W. White, on behalf of the county, for the erection of a gaol in this town. Plans at office of A. Henderson. Tenders close Oct. 4th.

CHEMAINUS, B.C.—The E. & N. Railway Co. are locating a branch railway to be used for logging purposes. It is also understood that the road will be extended to the copper mines.

KINGSTON, ONT.—The Frontenac Hotel at Round Island Park is to be improved to the extent of \$50,000. An annex containing 46 rooms will be built, and a new electric light plant put in.

CRANBROOK, MAN.—The Hudson's Bay Company have purchased property on which to build a hardware store.—Mr. Sherlock, of Lethbridge, is about to commence the erection of a stone building.

COLLINGWOOD, ONT.—A. D. Knight, Town Treasurer, wants tenders on behalf of the corporation for the purchase of about \$21,500 of local improvement and public school debentures. The date limit is October 19th.

BELGRAVE, ONT.—William Wightman, secretary Building Committee, will receive tenders up to 6 p.m. of November 1st for the building of a brick church in this village during the year 1899. Plans at D. Sprout's store.

WINDSOR, ONT.—Messrs. Ferguson and Goldstein Bros., tobacco manufacturers, of Montreal, are making an inspection of the tobacco fields in Essex and Kent counties, with a view to establishing a factory in this vicinity.

BILLINGS BRIDGE, ONT.—Tenders are asked for improvements and an addition to the Presbyterian church at this place. Plans at office of M. C. Edey, architect, Sparks street, Ottawa, and tenders to be addressed to James Baillie.

PORT ARTHUR, ONT.—A new brick block, two storeys, with stone foundation, will be erected this fall by D. Campbell, of the Royal Hotel. The ground floor will be fitted up with stores, while the upper flat will be devoted to offices and an assembly room.

ROSSLAND, B.C.—It is reported that C. P. R. engineers have surveyed a line of railway from Sayward, on the Columbia river, to Kuskonook, on Kootenay Lake.—The City Council has given notice of its intention to construct sewers to cost in the neighborhood of \$10,000.

ORILLIA, ONT.—In connection with the proposal to utilize the water power of Ragged Rapids for the generation of electric light and power, it is stated that Mr. William Kennedy, jr., of Montreal, has been instructed to prepare plans and specifications for the hydraulic work.

PEMBROKE, ONT.—The town council

has decided to call for tenders for both cedar and stone retaining walls at the junction of Millar and Mary streets. A decision as to which material is to be used will be made after the tenders are opened. Tenders close Friday, September 30th.

ST. CATHARINES, ONT.—Haines Bros., of New York, who have secured control of the Niagara Central Railway, announce their intention of operating the road by electricity. Various changes to the road-bed will be made, and the trestle work at Merriton and Thorold done away with.

VICTORIA, B.C.—It is probable that the City Council will appoint an inspector of electric wiring.—Gallagher & Wilson, solicitors, will apply at the next session of the legislature for the incorporation of a company to build a railway from Trail to Sayward, on the Columbia river, thence to Salmo.

VANCOUVER, B.C.—It is understood to be the intention of the Hastings Saw Mill Company to erect a large saw mill at Village Bay.—The City Engineer estimates the cost of a main sewer, 24" in diameter, on south side of False Creek, from Carolina street to English Bay, at \$80,000. The Board of Works will report on the matter.

LONDON, ONT.—Tenders are asked by the Ontario government for the erection of the Normal school building in this city. Plans at Room 10, Masonic Temple building.—Tenders closed yesterday for the brick and carpenter work of a cold storage building to be built on Bathurst street. George C. Zimmerman, 361 Richmond street, is superintending architect.

PARRY SOUND, ONT.—Messrs. Galbraith, of Tara, are about to commence the erection of a saw mill on the old Dough site.—Bregg Bros. are tearing down the old frame building on the Masonic lot, so as to permit the erection of an addition to the block, to cost about \$3,000.—It is understood that William Taylor intends building a brick block.—W. L. Haight proposes building an addition to his residence.

BERLIN, ONT.—Proposals are wanted by H. Aletter, Town Clerk, up to September 30th, for the purchase of \$102,000 of waterworks debentures, bearing interest at 3½ per cent. per annum.—The Hospital Board have decided to build an addition, 30 x 40 feet, of white brick, to the Berlin and Waterloo hospital.—Mr. A. W. Campbell, Provincial Road Inspector, was in town on Tuesday discussing the question of road improvements.

DESERONTO, ONT.—The Standard Chemical Co. of Canada, which has taken over the chemical works plant of the Rathbun Company, have made arrangements for the extension of the works. The large brick kilns used for carbonizing the wood will be supplemented by 40 iron retorts. The improvements will involve an expenditure of \$30,000. It is said that the starting of the smelting works has resulted in a number of persons deciding to erect new residences next spring.

NEW WESTMINSTER, B.C.—As a result of the recent fire, preparations are already under way for commencing operations on fifteen substantial brick buildings to take the place of some of those destroyed. The Dominion government will erect a temporary building for the purpose of post-office and custom house. The Bank of Montreal has purchased the lot on which the Y.M.C.A. hall stood, and will erect a solid brick bank building thereon.—We understand that it is the intention of Major Dupont, of Victoria, to proceed at once with the erection of a brick building in this city, on the site of the block destroyed by the recent fire.

QUEBEC, QUE.—W. D. Baillairge, assistant city inspector, has invited tenders for the erection of a hot house at Victoria Park, and for the extension of the conserva-

tory.—Building permits have been granted as below: C. E. Roy, St. Joseph street, repairs, cost \$3,000; A. McCarthy, Bagot street, repairs, cost \$1,100; E. L. Z. Farardau, repairs to building, corner Ste. Helene and Caron streets, cost \$4,000.—It is said that the Federal government will shortly undertake the necessary reparations at Point Levis.—The plans for the new church and presbytery for the parish of St. Hubeot, county of Temiscouata, prepared by David Ouellet, architect, of this city, have been approved of by the Bishop of Rimouski.

HAMILTON, ONT.—The City Council have decided to extend the franchise of the Street Railway Company for fifteen years. As soon as the financial arrangements are completed, some improvements will be made in the system.—Notice has been given by the City Council that it is proposed to construct pipe sewers on West avenue, Hunter street and Hughson street, at a cost of \$500, \$240 and \$260 respectively. A cement sidewalk will be constructed on James street, between Vine street and Cannon street, cost \$520.—J. F. Rastrick & Son, architects, invite tenders up to Friday, 23rd inst., for the erection of 20 separate cottages in this city.—The Sewers Committee have decided to invite tenders at once for a brick sewer on Aberdeen avenue, from Locke to Garth street, cost \$3,900, and on Wood street, of 24" pipe, cost \$2,250.

PETERBORO, ONT.—The town engineer has been instructed to prepare plans and specifications for the construction of a number of sewers.—The Street and Bridge Committee has been authorized to invite tenders for the construction of bridges over the creek on Sherbrooke, Dalhousie, Donegal and Smith streets. Concrete piers and iron girders will be used.—The Peterboro Light & Power Co. have requested the council to grant exemption from taxation on proposed improvements. The company intend to build a new power house. If the request is granted, the Dickson Company will widen and deepen their raceway. The proposition has also been submitted that instead of building the London street bridge over the race 20 feet wide, the town will make it 52 feet wide on condition that the Dickson Company build the centre pier.—The Peterboro and Ashburnham Street Railway has been sold to Arthur Stevenson. It is probable that some improvements will be made.

WINNIPEG, MAN.—The Committee on Works has recommended to the City Council that the piers in connection with the Salter street bridge be constructed by day labor, at an estimated cost of \$1,800, and that the following works be carried out. Sewer on Furby street, from Portage avenue to Nellie avenue, cost \$3,000; sewer on Alexander avenue, from Bushnell to Nena street, cost \$2,200; macadam pavement on King street, from James street to Fonseca street, cost \$5,160; macadam pavement on Furby street, from Portage avenue to Cornish street, cost \$10,470; granolithic walk on south side McDermott avenue, cost \$415; block pavement on Logan avenue, from Nena street to McPhillips street, cost \$8,000. The committee have also recommended that tenders be invited up to October 19th, for the construction of an asphalt pavement on Portage avenue, from Main street to Hargrave street, and that the macadam pavement on Logan avenue, from Ellen street to Nena street, be proceeded with by day labor, at an estimated cost of \$9,757.

OTTAWA, ONT.—Mr. W. G. Poupore, M.P. for Pontiac, is said to be negotiating with an American syndicate for the establishment of smelting works at Ottawa and on the Georgian Bay.—Mr. Ali, lumber manufacturer, of Thirty-One Mile Lake, had an interview last week with Mr. C. D. Major, member for Ottawa

county, concerning the construction of a bridge on a creek near his mills. Mr. Ali states that two American capitalists intend building a pulp mill on the lake next spring.—A scheme has been proposed by Dr. P. H. Bryce, Provincial Health Officer, to build cottage hospitals in the vicinity of this city, the estimated cost of which he places at \$20,000.—Representatives of British firms were in this city recently looking for a suitable site on which to erect an extensive cotton spool factory. It is understood that Messrs. J. & P. Coates, of Paisley, Scotland, Clark & Co., of Paisley, Chadwick & Co., of Manchester, and Brooks & Co., of Liverpool, are interested in the project.—The by-law providing for the construction of a main drainage system having been carried, arrangements are now being made for commencing the work. It has been decided to engage an engineer to prepare the necessary profiles and drawings, at a salary not to exceed \$175 per month. It is probable that the work will be undertaken in three sections, and that it will be let by public tender. The Main Drainage Committee has decided to recommend to the city council that the corporation supply the cement and brick required, but it is doubtful that this course will be pursued.—The following permits for buildings were issued last week: Peter Burke, frame dwelling, Bell street, cost \$750; Wm. McConville, brick stores and dwellings, York street, cost \$4,000; E. Blosseau, brick veneered shops and dwellings, St. Patrick street, cost \$1,800; H. B. Thibert, solid brick carriage shop and dwelling, Clarence street, cost \$1,500.

MONTREAL, QUE.—The J. W. Peck Shirt Manufacturing Company, of this city, have offered to build a factory at St. Henri, provided they are granted a bonus and exemption from taxation.—J. Alcide Chausse, architect, is preparing plans for the following: Piano factory, to be erected at St. Louis du Mile End, Que.; five dwellings and a bakery on Chausse street; six dwellings on Crescent street; a private residence at St. Zotique, Que., and six dwellings at Maisonneuve, Que.—The City Surveyor has been instructed to prepare an estimate of the cost of laying an asphalt pavement on Wellington street, from Congregation to Fortune streets, and from the latter to Butler street.—The city has agreed to contribute the sum of \$1,000,000 for the harbor improvements, including the following work: Flood protection wall, \$179,071; macadam pavement on Commissioner street, \$41,125; filling in Commissioner street, \$18,140.—A dispute having arisen regarding the erection of No. 7 fire station, the Fire Committee of the City Council has decided to offer the contractor the sum of \$700 for additional work found necessary. If this amount is not accepted, the architect will be instructed to call for new tenders.—The Society for the Protection of Women and Children are talking of erecting a building for inebriates.—The plans for the new office building for the G. T. R., prepared by Mr. Waite, architect, of Buffalo, were submitted to the Road Committee on Saturday last. The building will be 200 by 135 feet, five storeys, with two towers, and front halls of granite.—A vigorous effort is being made to secure the necessary funds with which to build the proposed hockey rink. The athletic clubs are subscribing quite liberally.

TORONTO, ONT.—The Ontario Government invites tenders up to Wednesday, October 5th, for all trades, except steam heating, plumbing and ventilation, required in the erection of Normal School building at London. Plans at Department of Public Works, this city, and at Room 10, Masonic Temple building, London.—The congregation of Hope Congregational church are considering the advisability of enlarging the church to

twice its present capacity. A committee has been appointed to report on the matter.—The Toronto Electric Light Company and the Metropolitan Railway Company have submitted tenders for the electric lighting of the village of Deer Park.—Mr. E. J. Lennox, architect, will shortly invite tenders for granolithic sidewalks to be built in connection with the new city hall.—The Board of Control has decided upon a scheme to provide access to the island across the western gap. The contrivance proposed takes the form of a steam ferry or scow, 65 x 25 feet in area, to cost \$12,800.—A report prepared by Mr. James Milne, electrical engineer, on the cost of constructing and operating the elevators in the new municipal buildings, recommends that the current be obtained from the Toronto Electric Light Co.—The City Engineer has been taking levels with a view to the establishment of a sewage farm in the east end. An estimated cost of the work will be furnished at an early date.—A committee of the city council has reported in favor of the Dundas street site for a new cattle market.—The Assessment Commissioner states that he has almost completed negotiations with the Toronto Carpet Co. for the erection of a new factory at the corner of King street and Fraser avenue, to cost \$40,000. The company have applied to the city for the construction of a water main, 300 feet long, on Fraser avenue, for fire protection purposes.—Messrs. Bond & Smith, architects, have invited tenders for alterations to a building on Hayter street, and will shortly ask tenders for three stores to be built in this city. They are also reconstructing a residence at 32 Lowther avenue.—Dr. Sheard, Medical Health Officer, has completed a report on the disposal of the sewage of the city, in which he states that the construction of some form of interception or trunk sewer will have to be undertaken at an early date.—The improvements in connection with the Metropolitan Railway Co.'s system are being proceeded with. It is proposed to extend the railway northward to Lake Simcoe, westward to Schomberg, and in a northeasterly direction to Jackson's Point and Beaverton. A new power house is being constructed at Bond Lake.—Building permits have been granted as follows: J. H. McNairn, three storey brick residence, west side Callendar street, near Harvard avenue, cost \$4,700 (Langley & Langley, architects; Dunkley Bros., builders); W. J. Joyce, 2-story and attic brick dwelling, east side Brunswick ave., near Ulster street, cost \$2,000; H. MacLeod, 2-story

and attic detached brick dwelling, Leopold street, near Margaret street, cost \$3,000; J. W. Gray, brick foundation and alterations to residence, 22 Carlton street, cost \$1,000 (C. C. Mitchell, contractor); Robt. Jaffray, 2-story brick addition, 622-24 Queen street west, cost \$1,600 (Burke & Horwood, architects; Wickett Bros., builders.)

FIRES.

Recent fires included the following: The factory premises of W. G. Harris, 25 to 31 William street, Toronto; loss on buildings \$5,000, insurance \$3,000.—Stables and warehouse of A. W. Brodie, at Hespeler, Ont.; loss \$4,000.—D. A. Ghent's carriage and winger factory at Burlington, Ont.; loss \$8,000, partially covered by insurance.—Building at 731 Craig street, Montreal, owned by J. O. Gravel, of the Canadian Rubber Co., and occupied by a number of firms; loss on stock and machinery, \$15,000.—Buildings at Bickley Bay, 150 miles from Vancouver, B.C., owned by the Channe Mining Co.; loss \$5,000; small insurance.—Storage sheds of the Montreal Street Railway Co., including 60 cars and 7 sweepers; total loss, \$200,000.—King Bros.' lumber yard at Pabos, Que.—Residence of P. H. Leagere, M.P.P., at Grand Digne, N.S.; loss \$5,000, no insurance.—Residence of Robt. Cossett at Smith's Cove, three miles from Digby, N.S.—James Devall's planing mill at Simcoe, Ont.—A. B. Dockstader's residence and general store at Port Haney, B.C.; insured.—C.P.R. station at Joliette, Que.—Residence of Mrs. P. McNulty at Port Dalhousie, Ont.; loss on building, \$800.

CONTRACTS AWARDED.

SMITH'S FALLS, ONT.—Dwelling house for Mrs. John Ennis. J. H. McGillivray, contractor.

FREDERICTON, N. B.—Improvements to Y.M.C.A. building: William J. Scarr, contractor.

MAGOG, QUE.—Brickwork of Robillard's block; D. Loomis & Sons, of Sherbrooke, contractors.

ST. LAMBERT, QUE.—The council has decided to purchase a Dore road machine, at the price of \$225.

COLLINGWOOD, ONT.—Two stores for Miss Connell: Wilson Bros., contractors; to be built of buff brick.

ST. JOHN, N. B.—Steam heating has been decided upon for the alms house, the tender of J. E. Fitzgerald, St. John, having

(Continued on page 4.)

THE HAMILTON BRIDGE WORKS CO., LIMITED.

HAMILTON - CANADA

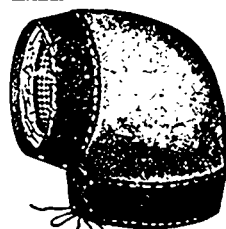
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MONTREAL WINNIPEG

been accepted; price \$3,200. This leaves about \$1,800 to be expended for general repairs.

COLDWATER, ONT.—Presbyterian church: W. H. Croker, Orillia, architect; J. R. Eaton, Orillia, contractor, \$2,115.

SAULT STE. MARIE, ONT.—New hospital building, M. Fautaux, contractor, cost \$20,000; to be completed by January 10th, 1899.

HALIFAX, N.S.—The contract for I.C.R. pier and sheds has been let to Rhodes, Curry & Co., of Amherst, at the price of \$35,000.

LONDON, ONT.—The tender of the Ontario Loan & Debenture Co. for \$70,000 of 3½ per cent. debentures has been accepted, price, \$70,817.

HANOVER, ONT.—The contract for the Maple Hill bridge has been let to Grafton & Son at \$4.50 per foot, J. Tyndale securing the abutment and approaches at \$320.

OTTAWA, ONT.—The management of the Intercolonial Railway have let the contract for 150 box cars and 100 flat cars to the Rhodes Curry Co., of Amherst, N. S., and that for 150 box cars to the Crossen Car Co., of Cobourg.

HAMILTON, ONT.—The following tenders have been accepted: Sewer on King street, E. Buscombe. Cleaning and straightening two sections of the Mountain drain: John Eustice, at \$240, and R. C. and F. C. Rundell, at \$195.

MONTREAL, QUE.—Contracts have been let as follows for a four storey stone building for the Gould Cold Storage Co., to cost \$6,000: Masonry, Edwards & Son; carpenter work, James Shearer Co. The architects are Messrs. Hutchinson & Wood.

CALGARY, N.W.T.—The tender of McDiarmid & Co., of Winnipeg, has been accepted for the erection of the

C.P.R. repair shops, round house, turntable, etc.; price \$47,000. The stone will be obtained from Edworthy's quarry, and the lumber from Vancouver.

SARNIA, ONT.—The Grand Trunk Railway Co. has let the contract for the erection of a roundhouse here to George A. Proctor, local contractor, at the price of \$60,000, exclusive of turntable and other fittings. The round house at Port Huron will be built by G. S. Germain, of that town.

PETERBORO, ONT.—The council has decided to purchase a road roller from the Sawyer-Massey Co., of Hamilton, at the price of \$3,000, delivered in town. The Pitts Co., of Buffalo, tendered at \$2,950.—The tender of the William Hamilton Mfg. Co. for a rock crusher, at \$1,025, has been accepted.

CHARLOTTETOWN, P.E.I.—The government have accepted the plans prepared by C. B. Chappell, architect, for the new Prince of Wales College and Normal School, and have let the contract to McDonald & Schurman. The cost of the building will be about \$35,000. There were four sets of plans submitted to the government for the building.

QUEBEC, QUE.—Following are the contractors for the Bell Telephone Company's new building on St. James street: Masonry, M. Jinchereau; carpenter work, M. Derarènes; painting, J. M. Tardinel; plumbing, Vandy & Matte. Mr. Perron, of Riviere-a-Pierre, has the contract for the granite for the building. Mr. David Quellet is the architect.—Nap. Vezina has the contract for heating apparatus for the Chateau Saguenay at Chicoutimi.

Cliffe & Co., plumbers, New Westminster, B.C., have sold out to A. Goltrey.

BUSINESS NOTES.

Arthur F. Baker and Charles Fyfe have registered as proprietors of Baker & Co., ornamental plasterers, Montreal.

Métivier, Beauvais & Poulin, masons, Montreal, have registered partnership.

Euclide Gauthier and Ensebe Paquette have formed a partnership in Montreal as bricklayers, under the firm name of Gauthier & Paquette.

The firm of Sacks & Laird, plumbers, Berlin, Ont., has been dissolved. In future the style will be the Sacks Plumbing & Heating Co.

The business of Snoddy Bros., plumbers, Hamilton, Ont., is reported to be in the possession of the bailiff.

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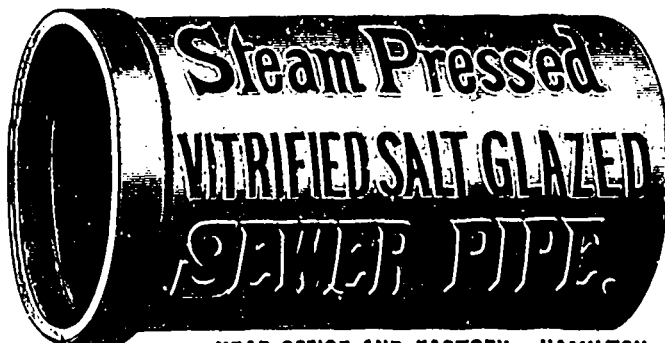
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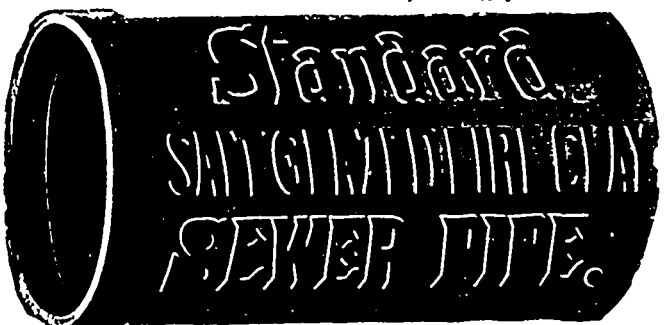
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TO MUNICIPAL OFFICERS.

The CONTRACT RECORD is desirous of publishing, as far as possible, advance information regarding projected works of construction in all parts of Canada, such as sewerage and waterworks systems, railways, street pavements, public and private buildings, etc. Municipal officers would confer a favor upon the publisher by placing at our disposal particulars of such undertakings which are likely to be carried out in their vicinity, giving the name of the promoter, character of the work, and probable cost. Any information thus furnished will be greatly appreciated.

SEWAGE SYSTEM AT SUTTON, ENGLAND.

The town of Sutton, Surrey Co., England, contains about 13,000 inhabitants. For years it has been noted as the home of many of those famous cricketers that made Surrey the banner cricket county of England. Within the last two years, however, it has become the Mecca for engineers and others interested in sanitary problems. Here there has been devised and put into operation a system of sewage disposal that for effectiveness and cheapness is claimed to have no rivals.

This system is known as the "natural" system, because it makes nature do the work that it is fitted to do. Readers of our daily papers and magazines have grown somewhat tired of the discussions on "microbes"; some good people even left off eating various delicacies for fear of the microbes in them. Here, however, in this sewage system is a place where microbes can perform their rightful functions in the economy of nature by consuming the deposits of sewage. When this sewage leaves the main pipe it is conducted through an iron screen. This screen retains paper, cork and substances in bulk, which even in the best regulated families, inevitably find their way into the sewage pipe. After passing through the screen the sewage drops some few feet into a coarse bed 50 feet long, 30 feet wide, and 5 feet deep. This bed, which much resembles a large shallow meat dish, is lined with coarse brick throughout, and in the bed are broken brick, burnt clay, and coke breeze. These substances retain the bacteria and give them hiding and breeding places. There are two of these coarse beds at Sutton that took about \$5,000 dollars to build and put in working operation. After going through these coarse beds the sewage is led through a fine bed in which are the same materials in a finer form. This bed does exactly the same work as the coarse. When the sewage leaves the fine bed it is thoroughly purified, and those in charge at Sutton

have no hesitation in drinking the water. Pipes conduct it from the fine bed into the river Surbiton, which it helps to keep pure.

The system has been in operation in Sutton for two years. By the side of the beds stands a little house. In this house are registered the tests made by the Government inspector twice a week. These tests have been very satisfactory and are open to public inspection. Before this system was put into operation Sutton had a system of chemical precipitation which cost them 4 pence per head of the population per year to run. The bacteriological system, to give it its distinguishing name, costs one-half penny per head of the population, just one-eighth of the former cost, so from the standpoint of economy the test is satisfactory. But this is not all, they actually make it produce a revenue. The officials gather from the iron screen two barrelsful of matter daily. Thus they bury in a large field and on it they grow peppermint. This peppermint is taken to a distillery near by and turned into oil, the money from the sale of which helps to pay the running expenses. Still another test is that a large piece of meat if put into the beds is entirely eaten up in the course of a few hours. This natural method of sewage disposal is being closely watched in England, and large cities that have been thoroughly dissatisfied with sewage farms, precipitation systems and the like are making preparations to put in this system on a large scale. The inventor of this system is Dr. Dibden, a famous chemist of London, England.

For the first few days that the beds are used, there is little or no purification, but as soon as the bacteria find their lodging places they begin to work.

The people of Sutton are not allowed by the English law to issue debentures for these works, so they still have the system of precipitation in use, but the money they are saving by the bacteriological system they are using to extend it, so that in the course of another year they will have this system entirely. The trouble with a chemical system is that in process of time, by the action of natural gases, the chemicals themselves become dissolved and pass away, so that there has to be a constant renewal of the chemicals and a disturbance of the sewage.

Mr. F. A. Cambridge has been appointed electrician for the city of Winnipeg, Man.

THE RENFREW WATERWORKS SYSTEM.

The town of Renfrew, Ont., has recently completed a waterworks system, of which a brief description may prove interesting. The contract was let for \$51,874, and provided for laying 34,000 feet of water pipe and 19,000 feet of sewer pipe. The water pipe was to be laid to such a depth as to admit of 5½ feet of covering over the pipe. There are 52 valve chambers and 87 fire hydrants in the waterworks system, and the sewer system contains the necessary number of man-holes and lamp-holes—some 60 of each. A circular stand pipe, 80 feet high, and of a capacity of 157,000 gallons, is erected on Carswell's hill.

The power house is constructed at the north side of the Bonnechere river, from which source the water supply is obtained, and is over a mile distant from the stand pipes. The machinery consists of two boilers and engines of 100 horse power each, two magnificent pumps and a condenser and two filters, with a capacity of over 200,000 gallons in twenty-four hours.

From Smith's creek to Mr. Barnett's residence at the southern end of the town the distance is about 2,400 feet. There are about 1,100 feet of extensions of water pipe being laid this fall on some three or four of the streets. The cost of operating the water works system is about \$1,200 per annum, including salaries of engineer and inspector, fuel for power house, etc.

The Berlin, Ont., Water Works Company have made an offer of their personal property to the town for \$102,000, which has been accepted by the council.

On September 10th Mr. C. H. Topp, city engineer of Chatham, Ont., was married in the Church of the Redeemer, Toronto, to Miss Edith Mills, of Bracebridge, Ont.

Road rolling in Easton, Pa., has been done of late by a 12½ ton Harrisburg steam roller. City Engineer H. R. Fehr reports that it has proved particularly useful in picking up old roadbeds. The cost of operating is said to be 30 per cent. less than with the horse roller formerly employed, and more and better work is done. The cost of operating per day is \$6.245, which is itemized as follows: Engineer, \$3.428; watchman, \$0.50; hauling, \$0.162; oil and grease, \$0.30; coal, \$1.772; packing and waste, \$0.083.

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	\$	\$	\$	\$
Mill cull boards and scantling 9 to 12 in. wide	10 00	10 00	12 00	
hipping cull boards, miscellaneous widths	12 00	13 00	13 00	
hipping cull boards, stocks	15 00	16 00	16 00	
Hemlock scantling and joist up to 16 ft.	10 00	12 00	10 00	
Hemlock scantling and joist up to 18 ft.	11 00	2 00	12 00	3 00
Hemlock scantling and joist up to 20 ft.	12 00	13 00	13 00	14 00
Cedar for paving, per cord		5 00		5 00
Cedar for kerbing, 4 x 14, per M.		14 00		14 00
Scantling and joist, up to 16 ft.		14 00		14 00
" " " " " " " " " " " "		15 00		16 00
" " " " " " " " " " " "		16 00		16 00
Scantling and joist, up to 22 ft.		17 00		17 00
" " " " " " " " " " " "		19 00		19 00
" " " " " " " " " " " "		20 00		21 00
" " " " " " " " " " " "		22 00		23 00
" " " " " " " " " " " "		24 00		25 00
" " " " " " " " " " " "		27 00		27 00
" " " " " " " " " " " "		29 50		29 50
" " " " " " " " " " " "		31 00		31 00
" " " " " " " " " " " "		33 00		33 00
" " " " " " " " " " " "		34 00		36 00
Cutting up planks, 1 1/2 and thicker, dry	25 00	28 00	25 00	30 00

LUMBER.

B. M.

1 1/2 in. flooring, dressed, F. M.	34 00	36 00	28 00	37 00
1 1/2 inch flooring, rough, B. M.	18 00	22 00	18 00	22 00
1 1/2 " " " " " " " " " " " "	25 00	26 00	27 00	30 00
1 1/2 " " " " " " " " " " " "	18 00	19 00	18 00	19 00
1 " " " " " " " " " " " "	18 00	20 00	18 00	22 00
1 " " " " " " " " " " " "	12 00	15 00	12 00	15 00
Beaded sheeting, dressed	20 00	35 00	22 00	35 00
Clapboarding, dressed		14 00	8 00	12 00
XXX sawn shingles, per M				
16 in.	2 40	2 35		3 00
XX sawn shingles	1 60	1 50		
sawn lat., No. 1	1 75	2 00	2 50	2 60
Cedar		2 90		2 90
Red oak	30 00	40 00	30 00	40 00
White	37 00	45 00	35 00	55 00
Basswood, No. 1 and 2	28 00	30 00	18 00	20 00
Cherry, No. 1 and 2	70 00	90 00	70 00	80 00
White ash, No. 1 and 2	24 00	35 00	30 00	35 00
Black Ash, No. 1 and 2	20 00	30 00	18 00	20 00
Dressing stocks	16 00	22 00	16 00	22 00
Picks, American inspection	30 00			40 00
Three uppers, Am. inspection	50 00			50 00

(Continued on Page 8.)

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 Special Castings and all kinds of
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3 inches to 60 inches diameter.

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In the "Canadian Architect and Builder."

(Continued.)

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BRICK—M

Table with 4 columns: Description, Toronto price, Montreal price, and another Montreal price. Includes items like Common W's, Good Facing, and Sewer.

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Table with 4 columns: Description, Toronto price, Montreal price, and another Montreal price. Includes items like Red No. 1 f.o.b. Milton, Buff No. 1, f.o.b. Milton, etc.

F. O. B. DON VALLEY.

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Table of advertisements for various services and products. Categories include Reversible Windows, Roofing Materials, Sanitary Appliances, Stained and Decorative Glass, Storm Doors, Ventilators, and Wall Plaster.

Toronto. Montreal.

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The following are the quotations to builders for nails at Toronto and Montreal:

Table with 4 columns: Description, Toronto price, Montreal price, and another Montreal price. Includes items like Cut nails, 50d & 60d, per keg, Steel " " " "

IRON PIPE.

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LEAD PIPE.

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GALVANIZED IRON.

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