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CANADIAN CONTRACT RECORD

A WEEKLY JOURNAL OF THE CONTRACTING INDUSTRY

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.

JUNE 8, 1898

No. 19.

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,

CONFEDERATION LIFE BUILDING, TORONTO.
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TENDERS

Sealed Tenders, separate or bulk, addressed to S. Dubber, Esq., Chairman of Building Committee, will be received by the undersigned up to six o'clock p.m., 17TH JUNE, INSTANT, for the various trades required in the erection of a

BRICK AND STONE TWELVE ROOM SCHOOL BUILDING

on Balaclara Street, St. Thomas, Ont., plans and specifications for which may now be seen and forms of tender obtained at the office of J. Z. Long & Son, Architects, St. Thomas, Ont. A deposit of 2½ per cent of the amount of the tender must accompany each tender. The lowest or any tender not necessarily accepted.

J. Z. LONG & SON, Architects,
Journal Building, St. Thomas.

CITY OF WINNIPEG

WATERWORKS

Proposals, addressed to W. G. Bell, Chairman Fire, Water and Light Committee, Winnipeg, Man., will be received at the office of the undersigned up to 8.30 o'clock on

MONDAY EVENING, THE 25TH DAY OF JULY, 1898,

FOR THE

Construction and Supply of a System of Wells and Pumping Plant

for the supply of 4,000,000 gallons of water daily to the reservoirs of the City.
Information and specifications may be obtained from H. N. Rutten, City Engineer.

C. J. BROWN,
City Clerk.

SITUATION WANTED

AN ENERGETIC MANAGER—OR HEAD bookkeeper and correspondent—wishes situation with large contractor and builder, or wholesale lumber firm, first-class references and good experience. Apply "S. E. J., c/o CONTRACT RECORD, Toronto.

To Contractors

Whole or separate tenders will be received by the undersigned up to WEDNESDAY, JUNE 15TH, 1898, for the erection of a BRICK SCHOOL BUILDING of two rooms in School Section No. 9, Scarborough Junction. Plans and specifications may be seen at the office of the Architects. The lowest or any tender not necessarily accepted.

SIMPSON & ELLIS, Architects,
9½ Adelaide Street East, Toronto.

Sealed Tenders

Separate or bulk, addressed to S. Dubber, Chairman of Building Committee, will be received by the undersigned up to 6 o'clock p.m. of the 17TH JUNE NEXT, for the various trades required in the erection of a Brick and Stone School Building on Wellington Street, in the City of St. Thomas, Ont.

Plans and specifications may now be seen and forms of tender obtained at the office of N. R. Darrach, Architect, St. Thomas, Ont.

A deposit of 2½ per cent. of the amount of tender must accompany each tender.

The lowest or any tender not necessarily accepted.

N. R. DARRACH, Architect.

St. Thomas, Ont., June 6th, 1898.

Toronto Public Schools

TO BUILDERS AND CONTRACTORS

Sealed tenders, whole or separate, will be received, addressed to the undersigned, up to

MONDAY NOON, JUNE 13TH,

for the several works required for the enlargement of Grace Street and Gladstone Avenue Schools.

Also for the usual midsummer

Repairs, Alterations and Improvements

in all trades at various other schools

Plans and specifications may be seen and all information obtained at the office of Mr. C. H. Bishop, Superintendent of Buildings, on and after Monday, the 6th instant, between the hours of 8 a.m. and 6 p.m., including Saturday.

Each tender must be accompanied by the deposit mentioned in the said specifications and form of tender. The lowest or any tender will not necessarily be accepted.

JAMES BURNS,
Chairman of Property Committee,
Toronto Public School Board.

WATERWORKS

Listowel, Ont.

Sealed tenders, addressed to the undersigned, will be received by this Corporation up to 8 p.m. of

Wednesday, the 29th June, 1898

Separate or bulk tenders wanted, covering all material and labor complete, for POWER HOUSE, STEAM BOILER, ELEVATED STORAGE TANK, WATER MAINS, VALVES, HYDRANTS, &c.
Full particulars can be had and plans and specifications seen at Listowel, or at the head office of the Consulting Chief Engineer, JOHN GALT, C.E. and M.E., Canada Life Building, Toronto.

Marked bank cheque, payable to the Corporation, for 6 per cent. of tender, must accompany bid.

The lowest or any tender not necessarily accepted.

W. E. BINNING, Town Clerk.

TO CONTRACTORS

Tenders addressed to the House of Industry, care of Hevelius Jones, Esq., Chairman of Building Committee, will be received up to 12 o'clock (noon), SATURDAY, THE 11TH INST., for all the various and necessary works required in making extensive alterations and additions to the House of Industry, corner of Elm and Elizabeth Streets.

Plans and specifications may be seen, and all other information obtained, at my offices

E. J. LENNON, Architect,
Cor. King and Yonge streets, Toronto.

TENDERS WANTED

FOR

Drainage Work

Sealed tenders, endorsed "Tender for Drainage, and addressed to J. A. Cockburn, Cryster, Ont., will be received up to the hour of 8 o'clock p.m. on

Tuesday, the 6th Day of July, 1898,

for the deepening, widening, straightening, improving, etc., of the Payne River and Beaver Creek, in the 1st concession of the Township of Finch.

Section 1, Payne River, length 1 mile.	
Estimated cost of excavation	\$5,532.50
Highway Bridge	600.00
Section 2, Payne River, length 4,600 feet.	
Estimated cost of excavation	2,280.00
Section 3, Beaver Creek, length 4,300 feet.	
Estimated cost of excavation	861.00
Bridges	75.00
Total	\$9,348.50

Plans, specifications, forms of tender, etc., to be seen at the office of J. A. Cockburn, Esq., Clerk of the Township of Finch, and at the office of T. H. Wiggins, Engineer, Glengarry Block, Cornwall, Ont., on and after Monday, June 27th, 1898.

The lowest or any tender not necessarily accepted.

J. R. W. CRYSLER, Reeve.

J. A. COCKBURN, Clerk.

T. H. WIGGINS, Engineer.

NOTE: The work below is an extension of this work.

TENDERS WANTED

FOR

Drainage Work

Sealed tenders, endorsed "Tender for Drainage," and addressed to R. C. McGregor, Esq., Sandringham, Ont., will be received up to the hour of 8 o'clock p.m. on

Thursday, the 7th Day of July, 1898,

for the deepening, widening, straightening, improving, etc., of the Payne River in Finch and Roxborough Townships.

Section 3, Payne River, Length	35,400 ft.
" 4, " " "	14,400 "
" 5, " " "	20,110 "
Estimated cost, Earth Excavation	\$12,203.64
Read Culverts	425.00
Total	\$12,628.64

Plans, specifications, forms of tender, etc., to be seen at the office of R. C. McGregor, Esq., Clerk of Roxborough Township, and at the office of T. H. Wiggins, Engineer, Glengarry Block, Cornwall, Ont., on and after Monday, June 27th, 1898.

The lowest or any tender not necessarily accepted.

H. CAMPBELL, Reeve.

R. C. MCGREGOR, Clerk.

T. H. WIGGINS, Engineer.

NOTE.—This work is an extension of the (Payne River and Beaver Creek drainage) above work.



Notice to Contractors

Tenders will be received, by registered post only, addressed to the Chairman of the Board of Control, City Hall, Toronto, up to noon on **MONDAY, THE 20th INSTANT**, for the construction of the following pavement:

CEDAR BLOCK PAVEMENT

On McCaul Street, from Queen Street to College Street.

Specifications may be seen and forms of tender obtained at the office of the City Engineer, City Hall.

A deposit in the form of a marked cheque, payable to the order of the City Treasurer, for the sum of 2½ per cent on the value of the work tendered for, must accompany each and every tender, otherwise they will not be entertained.

Tenders must bear the bona-fide signature of the contractor and his sureties, or they will be ruled out as informal.

Lowest or any tender not necessarily accepted.

JOHN SHAW, Mayor,
Chairman Board of Control.

City Hall, Toronto, June 6th, 1898.



ELEVATORS FOR NEW CITY BUILDINGS

Tenders addressed to the Chairman of the Board of Control, City Hall, Toronto, will be received, through registered post, up to noon on

Wednesday, the 22nd Inst.,

for placing elevators in the new City Buildings, now in course of erection in this city.

Plans and specifications and forms of city contract may be seen and forms of tender, and all information obtained upon application at the office of E. J. Lennox, Architect, corner of King and Yonge streets, Toronto, on and after Thursday, the 9th inst.

Each and every tender must be on the forms supplied by the architect, and be accompanied by a marked cheque equal to 2½ per cent on the amount of the tender. Tenders must also bear the bona-fide signature of the party tendering and his sureties, and must comply in every particular with the terms of this advertisement and the specifications.

Should any person or persons whose tender is accepted fail to execute the necessary contract, and give security satisfactory to the City Treasurer for the due fulfilment thereof, his or their deposit will be forfeited to the city.

The deposits of unsuccessful tenderers will be returned.

The lowest or any tender not necessarily accepted.

JOHN SHAW, Mayor,
Chairman Board of Control

Toronto, June 4th, 1898.

CONTRACTS OPEN.

STANLEAD, QUE.—S. Murdoch proposes building a residence.

HARTLAND, N. B.—S. Boyer has commenced the erection of a residence.

COLDWATER, ONT.—Rowland Brush is erecting a brick veneered dwelling 30 x 20 feet.

AMHERST, N. S.—James Bulmer is about to erect a residence on Church street.

CHESLEY, ONT.—The Methodist congregation has decided to build a new church.

PICTON, ONT.—The Methodists will build a new church and Sunday school building.

ST. LEONARD'S, N.B.—Irving Hoyt is having the foundation built for a new residence.

WINDERMERE, ONT.—A Presbyterian church, to cost \$1,200, will be erected at an early date.

NINGA, MAN.—Miller & Hainer and W. P. Landon contemplate erecting new stores this year.

KASLO, B. C.—The sum of \$200 is offered as a premium for accepted plans for municipal buildings.

PORTAGE LA PRAIRIE, MAN.—Work

will shortly be commenced on the new St. Mary's church.

ALMONTE, ONT.—W. Boyle has purchased property on Charles street and intends building thereon.

EDMONTON, N.W.T.—William N. Sutherland has purchased property on which to erect a residence.

QUEENSTON, ONT.—Isaac Usher & Sons are preparing to build two large kilns at their cement works.

LEAMINGTON, ONT.—The authorities of St. John's church have purchased a site for the proposed new edifice.

BRIDGEWATER, N. S.—Brignell, Bent & Rhodes propose erecting a stamp mill at their mine at Pleasant River.

HULL, QUE.—It is expected that the contract for the Toronto Rubber Co.'s new factory will be awarded this week.

KEMPTVILLE, ONT.—A by-law will be submitted to the ratepayers to provide for borrowing money for local improvements.

CAISTOR CENTRE, ONT.—Contributions will shortly be requested towards the erection of a Latter Day Saint church here.

WINDSOR, ONT.—It is probable that a by-law will be submitted to the ratepayers to raise money for street improvements.

CHARLOTTETOWN, P. E. I.—The Charlottetown Light & Power Co. was granted incorporation at the last session of parliament.

PORTSMOUTH, ONT.—Tenders have been opened for the new school house for St. John's church, but no award has yet been made.

LAKEFIELD, ONT.—An effort is being made to secure the construction of a swing bridge over the Trent Valley canal at this place.

CALGARY, N.W.T.—The council has accepted the proposal of the Canadian Pacific Railway Co. for the erection of machine shops here.

HARRISTON, ONT.—W. D. McLellan, clerk, will receive applications up to June 15th for the position of engineer for the township of Minto.

HAMPSHIRE, ONT.—Tenders have been invited for building a Methodist church at Lot 31. Albert Tremere is chairman of building committee.

LOGGIEVILLE, N.B.—Tenders are asked by William D. Savoy, up to June 15th, for stone foundation for new school house at Black Brook, district No. 3.

BOBCAYGEON, ONT.—Mr. George White-Fraser, of Toronto, was recently in town in connection with the proposal to build an electric railway in this vicinity.

DOUGLAS, ONT.—Martin Ringrose, proprietor of the Advocate, will build a new dwelling house.—Thos. Dallihan is preparing to rebuild the Congress Hall here.

VICTORIA, B.C.—A by-law to authorize a loan of \$15,000 to complete the improvements to the waterworks at Beaver Lake was defeated by the ratepayers last week.

CLEARWATER, MAN.—W. Cranston, secretary treasurer of the municipality, will receive tenders up to June 15th, for the purchase of \$2,400 of school debentures.

PRESCOTT, ONT.—A by-law will be submitted to the ratepayers to authorize the issue of debentures for \$100,000 for the construction of water works and sewerage systems.

HINTONBURG, ONT.—D. Rice has purchased a lot on which to build a residence.—A by-law to raise \$7,000 by debentures for school improvements has been passed by the council.

CRYSTAL CITY, MAN.—Among the new buildings projected are a large parsonage, a school building of brick, to cost \$5,000,

residence for Dr. Riddell, and store for Wm. McKittrick.

GLADSTONE, MAN.—On June 10th the ratepayers will vote on a by-law to provide \$5,000 for school purposes.

SANDY HILL, ONT.—The agitation for a new Anglican church at this place has been revived, but the Bishop of Ottawa has not yet given his consent to its erection.

CHATHAM, N.B.—It is proposed to engage an engineer to report on the question of a sewerage system for the town.—Tenders will be invited for repairs to the public wharf.

GOLDEN, B.C.—The Golden Rink Co., Limited, has been formed, to build a curling and skating rink; capital stock, \$5,000.—A fire department has been organized to afford fire protection.

WOODSTOCK, ONT.—Tenders have been invited by the city for the construction of cement concrete walks.—Plans have been prepared for alterations to the Methodist parsonage on Wellington street.

OWEN SOUND, ONT.—Tenders for building an addition to Brooke school will be received by W. J. Graham, secretary treasurer of the board, up to June 11th. Plans at office of J. C. Forster, architect.

GUELPH, ONT.—The Smelting Mfg. Co., represented by J. Brown, of Toronto, have made a proposition to the city to establish smelting works here, the buildings for which would cost \$135,000. A bonus of \$50,000 is asked.

ST. JOHN, N. B.—Work will shortly be commenced on the grain elevator at Sand Point, to be built by the C.P.R., under the supervision of J. A. Jameson. The building will be 182 feet in length, 94 feet wide and 148 feet high.

PETERBORO', ONT.—The Council has voted in favor of submitting to the ratepayers a by-law to raise \$10,000 for the erection of bridges and the purchase of a steam road roller. The vote will be taken on Wednesday, June 29th.

SARNIA, ONT.—Officials of the Grand Trunk Railway Co. recently made an inspection of the Sarnia tunnel. It is understood that the question of adopting electricity for hauling trains through the tunnel is still under consideration.

FULFORD, QUE.—Irwin Joyl, proprietor of the tannery, intends putting in an electric light plant for lighting his buildings and streets of the village. Melvin Gaylor and Irwin Joyl have formed a partnership and propose erecting a large public hall.

LINDSAY, ONT.—A committee of the town council has recommended that \$1,000 be appropriated for roads on William street.—The engineer has been requested to prepare estimates of cost of constructing certain sewers, in accordance with a report by Mr. Willis Chipman, C.E.

RAT PORTAGE, ONT.—Incorporation is asked for the Rat Portage Cold Storage Co., capital \$50,000, to build a block adapted for their purposes on the corner of Matheson and Fort streets, at an estimated cost of \$10,000. E. F. Head and A. C. Boyce are interested in the project.

PARRY SOUND, ONT.—Lennox & Kerr, of Walkerton, have decided to build a two-storey building here, 50 x 100 feet.—Messrs. Galbraith, of Tara, have about completed the purchase of some limits and the old Beatty mill site here. They intend erecting a saw mill and furniture factory.

KINGSTON, ONT.—Arthur Ellis, architect, has invited tenders for building a farm house near Collin's Bay.—The foundation for Dr. R. T. Walkem's brick residence on Arch street is about completed.—The Finance Committee will recommend a bonus of \$25,000 to the Dominion Cotton Mills Co. to remove their plant from Montreal to this city. This will necessitate the enlarging of the

local mill. Walter Barwick, Toronto, represents the company.

NORTH DUMFRIES, ONT.—T. C. Douglas, Reeve, will receive tenders up to Saturday, June 18th, for construction of bridge, with stone or wood abutments, over Grand River, 3 miles below Galt; bridge to be 385 feet long, 16 feet high, 10 or 12 foot roadway. Tenders for iron and wood structures will be considered.

HALIFAX, N. S.—At a recent meeting of the public school commissioners, plans of proposed additions to school buildings were adopted. A committee was appointed to report as to the best method of heating the schools.—The City Council has voted the sum of \$50,000 towards the erection of a grain elevator in this city.

MONTREAL, QUE.—P. W. St. George, city surveyor, will receive tenders up to noon of Monday, June 13th, for the construction of a sewer on Chambord street, from end of existing sewer to lot subdivision No. 82.—Chief engineer Lumsden, of the C.P.R., states that the preliminary survey for the proposed line to Sudbury will be completed in two weeks. The construction of the road will include a number of quite important bridges.—MacDuff & Lemieux, architects, are asking for tenders for a stable for the corporation of St. Henri.

LONDON, ONT.—No. 2 committee of the Board of Education have adopted plans for a four-room addition to the Collegiate Institute, to cost \$7,000. The building will have metallic ceilings, slate roof and natural wood finish. Tenders for building same will be received up to the 16th inst. Herbert Matthews, architect.—A petition is being signed asking the Middlesex county council to construct a bridge over the Thames river on the town line between Dunwich and Aldborough.—No. 3 committee of the City Council will recommend that tenders be invited for an electric light plant for lighting the streets of the city.

BRANTFORD, ONT.—T. Harry Jones, city engineer, is preparing plans for extensive alterations, including plumbing and heating, to the city hall.—The Fire and Light Committee have abandoned the proposal to install a municipal lighting plant, and have recommended that a contract for street lighting be entered into with the Brantford Electric & Operating Co.—G. W. Hall, architect, has prepared plans for alterations and additions to the premises occupied by the Verity Plough Co., for the Gould, Shapley & Muir Co.—The City Engineer has recommended the construction of sewers on Bridge, Wellington, Alford, Mary, Sarah and Murray streets, and on Park avenue.—The city council has given notice of its intention to construct a large quantity of cement walks and several sewers.

WINNIPEG, MAN.—The C. P. R. will build stations this summer at Moose Jaw, Altona, Winkler, La Riviere, Rothwell, Eva, Pipestone, Reston, Pierson and Maple Creek.—Plans are invited for a central fire hall building to be built in this city.—The provincial government intend to construct a system of drains in Ste. Agathe municipality, at an estimated cost of \$7,500.—Tenders have been invited for drains, concreting, brick and stone work for the proposed McIntyre block. Specifications at 230 Portage avenue.—The directors of the Western Agricultural & Art Association have decided to invite tenders at once for an addition of 50 feet to the grand stand. It is proposed to expend about \$6,000 on improvements.—H. F. Forest, manager of the Great Northwest Central Railway, states that it is the intention to extend the line 50 miles this summer.—Stewart Mulvey, secretary treasurer school board, will receive tenders up to 9th inst. for building a school on the Pembina site, from plans by J. H. G. Russell, architect.—The city wants ten-

ders by the 15th inst. for macadamizing Bannatyne, Hargrave and Alexander streets.—It has been decided to call for tenders for two new street sprinklers, to be delivered by July 1st, estimated cost \$650.—The city engineer has recommended the construction of a sewer on Garry street, between St. Mary and York street, estimated cost \$900.

QUEBEC, QUE.—The Great Northern Railway Co. have asked the city for a subsidy of \$200,000, \$50,000 to be paid upon the completion of the Hawkesbury bridge, \$50,000 upon the construction of workshops in this city, and \$100,000 upon the completion of the road.—David Quellet is preparing plans for a church, sacristy and presbytery to be erected at Saybec.—It is understood that the amalgamation of the Quebec, Montmorency & Charleboix Railway and the Quebec District Railway has taken place, and that the former will shortly be converted to an electric system.—Mr. Talbot, architect, has prepared plans for new stores for Lacroix, Pichette & Cie, St. Joseph street, Levis, and for extensions of the Hotel Dieu, two wings, one 35 x 120 feet, the other 58 x 88 feet, 4 stories high; approximate cost \$58,000.—Jos. Ve.rault, merchant, is making an extension 50 x 26 feet to his residence.—David Quellet, architect, is asking for tenders for the R. C. church and sacristy at St. Samuel de la Beauce. He also will take tenders shortly for the interior decoration of the R. C. church of St. Coeur de Marie, county of Megantic.—A. Piou & Cie intend building a 4 storey brick extension to their works, from plans by Thomas Raymond, architect.—Tanguay & Vallee, architects, are preparing plans for the new church to be built in the parish of St. Sauveur.

OTTAWA, ONT.—The Furnishing Committee of the Public School Board has recommended that tenders be invited for furniture for new school, the date limit to be June 20th.—The site is being prepared for the warehouse to be erected for J. M. Garland at the corner of Queen and O'Conner streets.—L. K. Jones, Department of Railways and Canals, wants tenders up to Tuesday, August 2nd, for the supply of 1,000 tons of 50 lb. steel rails and fastenings and 5,000 tons of 80 lb. steel rails, all to be delivered in the month of April, 1899.—It is understood that H. N. Bate and other prominent citizens are urging the necessity of building an Anglican church on Theodore street east.—The property owners on Sussex street have asked for an asphalt pavement, the cost of which is estimated

at \$33,000.—Robert Surtees, city engineer, will receive tenders up to Wednesday, June 15th, for the excavating, etc., required for the construction of pipe sewers on Kent and Sparks streets.—The Fire and Light Committee have selected a site on the south side of Theodore street for the new St. George's ward fire station. F. J. Alexander, architect, has been appointed to change the plans and superintend the work.—The Sisters of the Precious Blood Monastery on St. Patrick street have purchased the McKay homestead on the canal bank, and will proceed at once to remodel the same.—Tenders for about 4,000 cubic yards of excavation in Widemar channel, at lower entrance of Sault Ste. Marie canal, have been invited by L. K. Jones, secretary Department of Railways and Canals.—It is expected that plans for the new bridge at Maria street will shortly be prepared by the Department of Public Works.—J. C. O'Keefe is erecting a brick dwelling house on Russell avenue, cost \$3,000.—In connection with the remodeling of St. Patrick's church, it is stated that other improvements and decorations are contemplated, consisting of a main altar in marble, new altar for the Lady Chapel, 40 colored windows, and some repairs and re-arrangements of the organ and heating apparatus; estimated cost, \$15,000. The above work has not yet been arranged for. L. Z. Gauthier, of Montreal, is architect. Plans are being prepared by E. L. Howard, architect, for a new hotel to be erected on the Moylan property at Aylmer. S. and Freeman Daniels are the promoters.

HAMILTON, ONT.—The city council has given notice of its intention to construct cement sidewalks on McNab, James and King streets, stone curbing on Hughson street, and 12 inch pipe sewer on Cannon street.—Major Gray, of the Dominion Public Works Department, last week made an inspection of the Hamilton harbor, and as a result will recommend that the south dock on the bay side at the canal be extended 100 feet, and that a passage be made through the northerly pier on the bay side.—A conference was held last week between the Fire and Water Committee and representatives of the Canadian Fire Underwriters' Association. The latter claim that as yet ample fire protection has not yet been provided.—R. Paton has taken out a permit for a brick dwelling, corner Bay and Napier street, for W. J. Morden, cost \$1,200.—The Hamilton Gas Light Co. has secured a permit for a brick

(Continued on page 4).

THE HAMILTON BRIDGE WORKS CO., LIMITED.

HAMILTON - CANADA

Railway and Highway Bridges

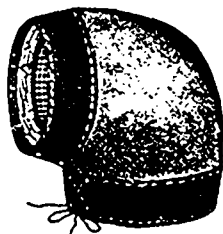
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MONTREAL WINNIPEG

building, corner Mulberry and Bay sts., cost \$2,500.—The special committee appointed to report on the establishment of a municipal lighting plan will hold a meeting at an early date, when statistics as to cost of operation in other cities will be given.—It is reported that the George E. Tuckett & Sons Company intend building a \$25,000 addition to their premises.—A meeting of persons interested in the building of a grain elevator here was held last week. It was decided to ask the City Council and Board of Trade to take up the matter.

ST. THOMAS, ONT.—James A. Bell, county engineer, has taken tenders for building a brick structure, 16 x 52 feet, at the Elgin House of Industry.—The question of building a new union depot in this city for the accommodation of the Canadian Pacific, Grand Trunk and Wabash Railways will be considered at a conference of representatives to be held in Toronto this week. The Wabash officials are urging the erection of such a station, and unless an agreement is reached with the other companies, they may build a depot on their own account.—The figures submitted by contractors for building the new city hall are considerably above the estimated cost, and it is probable that alterations in the plans will have to be made. The lowest tender for mason cut stone, iron and slating work was \$34,611. The plans are by N. R. Darrach architect.—Tenders for building the new public school from plans by J. Z. Long & Son and N. R. Darrach, architects, are invited this week.—The question of the purchase of a steam road roller is still under consideration.—N. R. Darrach, architect, is preparing plans for a two-storey brick residence for John Jago, and for a cottage for W. Green.

TORONTO, ONT.—St. James Square Presbyterian church management are said to have decided to put in a new heating system.—The congregation of St. Thomas church on Huron street have decided to extend the building, provided the necessary \$7,000 can be provided.—The Public School Board invites tenders in this issue for the enlargement of Grace street and Gladstone avenue schools, and for the usual midsummer repairs, and alterations.—The city council has given notice of its intention to construct a cedar block pavement on Shaw street, from Queen to Arthur streets, cost \$5,140; granolithic sidewalk on Queen street south side, from near Victoria street to a point 110 feet further west, cost \$231, and a concrete sidewalk on west side St. George street, Bloor to Harbord, cost \$1,413.—Mr. J. L. Mickle, of Port Arthur, was in Toronto last week purchasing materials for his new residence, and consulting with the architects, Messrs. Simpson & Ellis.—Tenders have been invited by the Separate School Board for steam heating of St. Paul's R. C. Separate school on King street east. The architect is A. W. Holmes, Janes building. The Separate School Board is also considering plans for the proposed new school on St. Patrick street, the erection of which has been recommended by the Sites and Building Committee.—The city invites tenders until to-morrow (Wednesday) for the construction of asphalt roadways on Jamieson ave., from Queen street to G.T.R. tracks.—Tenders are invited for addition to House of Industry, corner Elm and Elizabeth streets. Plans at office of E. J. Lennox, architect.—The Assessment Commissioner has recommended that the Temperance Hall property or the property in

rear of St. Patrick's market be chosen as the site for the proposed swimming baths.—A petition is in circulation asking that Parliament street, between Gerrard and Queen streets, be macadamized.—The Public School Board has decided on several sites and additions to provide more school accommodation. It is proposed to add four rooms to Kew Beach school, four rooms to Pape avenue school, and five rooms to Ryerson school.—In his last report to the Board of Works, the city engineer recommends the construction of the following local improvements: Major street, College to Bloor, brick on concrete, cost \$22,000; Euclid avenue, cedar block from Robinson to Arthur, cost \$3,960; Queen street, John to Bathurst, asphalt, cost \$43,900; Wilcox street, north side, St. George to Huron, cement concrete sidewalk, cost \$472; Homewood avenue, both sides, Carlton to Wellesley, cement concrete walk, cost \$2,410; Breadalbane street,

north side, Yonge to St. Vincent, roadway narrowed and new walk next to curb, cost \$318; Huron street, east side, Wilcox to Classic place, cement concrete walk, cost \$387; Gwynne avenue, King to Queen, cedar block pavement, cost \$2,055; Humbert street, Dundas to Dovercourt, cedar block, cost \$1,325; Collahie, Gladstone to Beaconsfield, cedar block pavement, cost \$6,000. The engineer also requests the city solicitor to prepare a by-law transferring the sum of \$30,000 at the credit of the street railway pavements to provide repairs of pavements on various parts of Yonge, Queen, King, College, Carlton and Lake streets. He suggests that the city advertise for tenders at once.—The recommendation to construct a 12-inch water main on King street, between Close and Jamieson avenues, has been passed by the city council, and the work will be carried out.—Building permits have been issued as follows. Bickell & Wickett, two-storey

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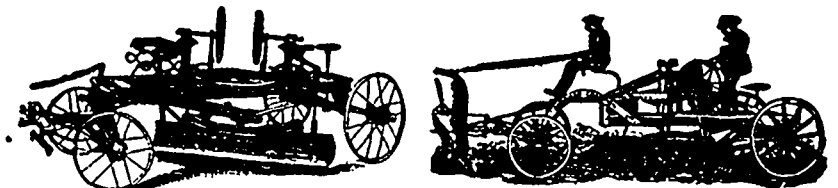
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addition to factory, Nos. 1 to 13 Cypress street, cost \$3,000; Walker & Rowland, pair two-storey and attic brick and stone residences, cost \$5,000.—The Board of Control will invite tenders shortly for a brick pavement on Clinton street.

FIRES.

The fires of the past week were as follows: Lewis Poulin's house at Stotts-ville, Que.—Buildings at Doucet's Landing, Que., owned by F. Camirand, damage several thousand dollars.—Western abattoir at St. Henri, near Montreal; loss, \$100,000; insurance \$41,000.—Car sheds of the Toronto Street Railway Co., corner Sumach and Queen streets; loss, \$2,000.—Saw mill of G. T. Cook, at Cook's Brook, Gay's river, N.S.; no insurance.—John Watt's planing mill at Aylmer, Que.; loss over \$15,000; insurance, \$1,000.

CONTRACTS AWARDED.

RODNEY, ONT.—German Methodist church: N. S. Lusty, contractor.

BRILLIN, ONT.—Cement sidewalks: Guelph Pavement Co., successful tenderers.

WHRATLAND, MAN.—New English church: Mr. Stirret, of Brandon, contractor.

PORTAGE LA PRAIRIE, MAN.—New Church of England: J. H. Bossons, contractor.

HALIFAX, N. S.—Loan of \$140,000: Aemilius Jarvis & Co., Toronto, successful tenderers.

OAKVILLE, ONT.—Coghill & Co. have secured the contract for dredging harbor here.

WINGHAM, ONT.—3½ miles of artificial stone pavements: A. Graham, of London, contractor.

ST. LEONARD'S, N. B.—Malcolm & Ross have obtained the contract to build the Restigouche railway, and will commence work at once.

WINNIPEG, MAN.—The contract for building horse stables for the Western Agricultural & Art Association has been let to John Forbes; price, \$2,504.

QUEBEC, QUE.—Manse for Chalmers' church: Walter Sharp, contractor; H. Staveley, architect; building two storeys, with mansard roof.—Hotel Dieu at Levis: Masonry work.

(Continued on page 6.)

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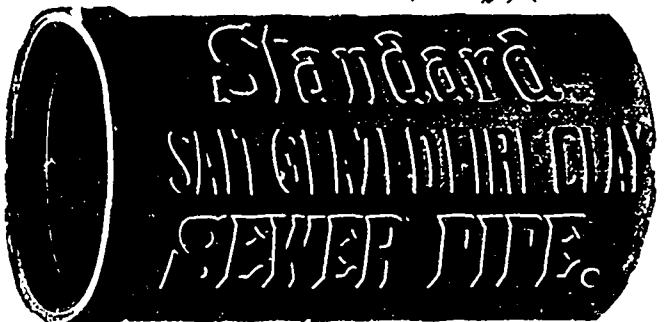


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Charles Mason; carpenter work, Oliver M. Chaud.—Residence for Mr. Evans at Sillery; Emile Cole, contractor, cost \$2,200. Contracts have been let as follows for extension to the convent of the Sisters of Charity, cost about \$20,000; Jean Turgeon, masonry; Jos. Gosselin, joiner's work. David Ouellet is architect.—Amedee Roy is building a cottage 42 x 28 feet, for Gaudias Richard, St. George street; cost \$1,500.

TORONTO, ONT.—Mr. F. H. Herbert, architect, has awarded the following contracts: New factory, Liberty street, for Messrs. John Lee & Company—masonry, Henry Lucas; carpenter work, J. C. Scott; plumbing, Bennett & Wright Co.; ironwork, St. Lawrence Foundry Co.; painting, H. W. Johnston; galvanized iron work, Metallic Roofing Co.; roofing, Rennie & Son; concreting, A. Gardner & Co. New residence, St. George street, for T. W. Horn—carpenter work, James C. Scott; other trades not let.—W. Mashiter & Co. have been awarded contract for hot water heating in residence for James Black, Palmerston ave., and for remodelling the plumbing in 10 Madison ave. for S. F. McKinnon.

MONTRÉAL, QUE.—The tender of A. Paquette & Co. has been accepted for alterations to factory on St. Dominique street, for Fogarty estate, from plans by W. E. Doran, architect.—Contracts for two houses on La-gauchetiere street for Michael Stuart have been let as below: Masonry and brickwork, M. Giroux; carpentry and joinery, M. Scott; other contracts not let. W. E. Doran, architect.

SHERBROOKE, QUE.—J. Verret, architect, has in hand the following works: R. C. church of St. Hermengilde de Barford, in stone, cost \$19,000; Paquet & Godbout, contractors; church of St. Vincent de Hereford, in wood, cost \$8,000, Octive Blain, contractor; church of St. Charles Borromeo de Garthby, cost \$12,000, Paquet & Godbout, contractors; church of St. Adolphe de Dudswell, cost \$9,000, Cleophas Poulet, contractor; church of Notre Dame de Lourdes, cost \$3,500; church at St. Cecile de Whitton, cost \$6,000 (plans in course of preparation); church of St. Jacques le Majeur, cost \$10,000; alterations to the Hochelaga Bank, Sherbrooke.

OTTAWA, ONT.—The following tenders have been recommended for acceptance for building the First Avenue public school; Alex. Garvoek, brick and stone work, excavation and concrete work, \$9,441; Hugh Gilmour, carpenter and joiner work, \$5,925; M. Howe, painting and glazing, \$937; McKinley & Northwood, plumbing work, \$425; McKinley & Northwood, boiler and brickwork, \$520; McKinley & Northwood, steam heating apparatus, \$949; McKinley & Northwood, galvanized iron work and ceilings, \$1,787; F. Hunt, lathing and plastering, \$500.—The following tenders were received by the government for the work on the Koekliffe rifle range: John I. Lyons, \$10,222; John O'Toole, \$10,631; Michael O'Leary, \$10,883; C. E. McDougall, \$11,068; James White, \$11,830; Michael Tobin and J. F. Keating, \$12,609; George Stockand, \$13,955; Paquet & Godbout, \$15,230; James O'Connor, \$15,605; W. A. Archer, \$17,698; M. A. Piggott, \$19,232; Patrick Burns, \$21,230; John O'Leary, \$25,201. The tender of J. J. Lyons has been accepted.

LONDON, ONT.—Laying conduit to Springbank, 2,100 feet; James M. Drummond, contractor, \$1,900. The Hospital Building Committee has recommended the acceptance of the following tenders for building the new Victoria Hospital: Carpenter work, John Purdom, \$23,295; brickwork, Martyn & Hammett, \$27,495; painting and glazing, Pace & Fitzgerald, \$2,280; plastering, Pritchett & Murray Bros., \$4,170. Tenders for heating and plumbing were not asked. The building of the children's hospital will also be recommended, by the same contractors, at a cost of \$3,301. The tenders received were as follows, the latter tender in each case being for the children's hospital: Brickwork.—William Hayman, \$27,618.80 and \$1,785; Martyn & Hammett, \$27,495 and \$1,733; John Hayman & Sons, \$28,200 and \$1,900; Simpson & Murray, \$35,500 and \$3,000; Everitt & Sing, \$27,857 and \$1,877; Moran & Ridge, \$33,679 and \$1,840; J. Garratt, \$30,000 and \$2,500; Jas. S. Luney, \$33,104 and \$1,895. Carpentry, galvanized iron work and slating—Win. Tytler, \$25,275 and \$2,090; Isaac Sargent, \$26,298, including children's pavilion, or \$25,871 if it be not built; John Shopland, \$23,530 and

\$1,270; John Purdom, \$25,495, \$23,295, exclusive of children's pavilion; Jones Bros., \$25,150 and \$1,550; Tambling & Jones, \$23,355 and \$1,400 (bulk tender \$57,680, children's pavilion \$3,490). Painting and glazing—H. & C. Colerick, \$2,750 and \$200; I. Quick, \$3,100 and \$97; Geo. Howe, \$2,520 and \$130; Pace & Fitzgerald, \$2,280 and \$36. Plastering—Gould Bros., \$4,945 and \$195; John Fenn, \$5,750; Pritchett & Murray Bros., \$4,170 and \$257; Gould & Stratford, \$4,025 and \$200; Robt. Gash, \$4,625; Geo. Slade, \$6,434.

THE PROPER CARE OF WATERSHEDS.

In a recent lecture before the Franklin Institute of Philadelphia, Prof. W. P. Mason, of the Rensselaer Institute at Troy, N. Y., spoke of sanitary problems in connection with municipal water supplies, from which the following extracts are taken:

Everybody is talking or writing about water; but the public is far from being well posted. Ocular evidence of purity is popularly sufficient. The bright and limpid water from the well which drains a graveyard is quite satisfactory to those who would shudder over a cholera ship's touching at our most distant port. The \$5,000 just voted at Albany, N. Y., for studying the bubonic plague were better expended towards getting a pure water supply for that city.

A letter written me says: "Water taken midway between the surface and bottom of a river will always be found as pure as fresh spring water. Impurities on the surface will be blown ashore in a few hours, while those heavier than the water will sink to the bottom."

Highly desirable as it would be to keep the waters of our great rivers in potable purity, the enormous expense would be prohibitory, apart from the consideration of great injustice to established institutions. Large centres of population now in existence turn their sewage directly into the river on whose banks they stand, and an up-stream city might well complain should it be forced at great expense to establish sewage disposal plants when the town below for much less money could secure better water from some inland source.

A land should be looked upon as watered by its smaller lakes, its springs and brooks, and sewered by its great streams—especially by its navigable rivers. Its water sources should be protected by law with exceeding care, and no river or stream should be added to its list of drains except after proper consideration by a state board of health, followed by legislative permission.

The typhoid fever outbreak at Plymouth, Pa., showed the direct relation between epidemic disease and a polluted water supply. It was traced to a single typhoid patient whose dejecta were thrown out upon the snow upon a hillside at whose base ran the stream

supplying the town. The dejecta were frozen solid for weeks; but the March thaws dissolved and carried them into the stream below. Pruden long since showed that typhoid bacillus can survive three months' continuous freezing; while a more recent authority finds germ life standing the temperature of liquid oxygen, 298 degrees below zero, Fahrenheit.

The Massachusetts State board of health, by a series of experiments at Lawrence, has determined that through intermittent filtration with beds of gravel or sand, city sewerage may be converted into potable water.

On many a farm, and within the limits of many a town, human dejecta are disposed of in a vault of cesspool, and the purifying power of the earth depended upon to prevent pollution of the family well or of the adjacent stream. The distance from cesspool to well is often so short that the intervening soil has not the capacity to eliminate the amount of filth present, even by a process which must be essentially a continuous rather than an intermittent form of filtration. An elaborate series of analyses of the earth in the immediate vicinity of a cesspool showed that pollution extended to at least fifty feet from the cesspool.

In New York state the occurrence of typhoid fever cases in country, as compared with city, have been in the ratio of thirty-three to twenty-four. The average annual death rates for thirteen Massachusetts cities stand, before introduction of public water supply, 79.04 per 100,000, after such introduction, 38.03. For the whole state of Connecticut, the percentage of typhoid deaths to total deaths had fallen from 5.08 in 1870 to 1.84 in 1893. Such figures show the advantage of selected water supplies over the general run of those derived from the domestic well.

(To be Continued)

ARTIFICIAL STONE WALKS.

The following extract, taken from Road Commissioner Campbell's recent address in Orillia, may interest municipal authorities: "Planks are not an economical material for sidewalks. Timber subjected to alternate moisture from the ground and rain, and heat from the sun, cannot help but decay rapidly. A plank walk properly constructed will last five years, then repairs commence. At the end of fifteen years the walk has cost as much for repairs as it cost in the first place, therefore the average life of a plank walk may be seven years. The best material for sidewalks is artificial stone, such as is laid in front of the Sheppard block on Mississauga and Peter streets. The first cost of this is nearly three times that of plank. Plank averages about 5c. square foot; artificial stone, 12c. square foot. The latter, when properly laid, will last probably for a century; it has been on some Toronto streets now for thirty years, and is apparently as good as ever."

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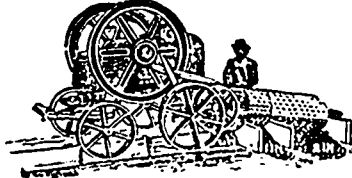
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Table listing Jencks's Machine Co.

Maniles, Grates, and Tiles.

Table listing Holbrook & Mollington, Mosaic Marble & Enamel Co., etc.

Mortar Colors and Shingle Stains.

Table listing Cabot, Samuel, Muirhead, Andrew, etc.

Ornamental Iron Work.

Table listing Dennis Wire & Iron Co., Malleable Iron Co., etc.

Painters.

Table listing Montreal Directory, Toronto Directory, etc.

Plasterers.

Table listing Gander, J. M., Hynes, W., etc.

Paints and Varnishes.

Table listing Muirhead, Andrew.

Parquet Floors.

Table listing Elliott, W. H., Hobbs Glass Works, etc.

Plate Glass.

Table listing Lyon, N. T., The Consolidated Plate Glass Co., etc.

Plumbers.

Table listing Montreal Directory, Toronto Directory, etc.

Reflectors.

Table listing Frink, I. P.

Roofing Materials.

Table listing Ormsby & Co., A. B., Metallic Roofing Co., etc.

Roofers.

Table listing various roofing contractors like Campbell & Gidday, Douglas Bros, etc.

Sanitary Appliances.

Table listing Garth & Co., Toronto Steel Clad Bath & Metal Co., etc.

Stained and Decorative Glass.

Table listing Horwood & Sons, Hobbs Glass Works, etc.

Shingles and Siding.

Table listing Metallic Roofing Co., Metal Shingle & Siding Co., etc.

Soft Pipe.

Table listing Toronto Foundry Co.

Storm Doors.

Table listing Hillock & Co., John.

Typewriters, Etc.

Table listing Archbold, Chas. E., Williams Mfg. Co., etc.

Ventilators.

Table listing Boston Blower Co., Wallberg, E. A., etc.

Wall Plaster.

Table listing Albert Mfg. Co., Atabastine Co., etc.

Toronto. Montreal.

Table listing prices for Hydraulic Cements, Thorold, Queenston, Napanee, Hull, Ontario, Keene's Coarse Whites, etc.

HARDWARE.

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

Table listing prices for Cut nails, Steel, Iron pipe, Lead pipe, Waste pipe, etc.

Galvanized Iron.

Table listing Adam's-Mars's Best and Queen's Head, etc.

Structural Iron.

Table listing Steel Beam, channels, angles, tees, plates, Sheared steel bridge plate, etc.