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CANADIAN CONTRACT RECORD

A WEEKLY JOURNAL
OF
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 29, 1898

No. 22.

THE CANADIAN CONTRACT RECORD,
PUBLISHED EVERY WEDNESDAY
As an Intermediate Edition of the "Canadian Architect
and Builder."

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Builder" (including "Canadian Contract
Record"), \$2 per annum, payable in advance.

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Telephone 2362.

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

Advertising Rates on application.
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SEALED TENDERS

Will be received until SATURDAY, JULY 9TH, for
the work required in the erection of a
RESIDENCE IN ROSEDALE.

Plans and specifications may be seen at the office of
the architect, to whom tenders are to be addressed.
The lowest or any tender not necessarily accepted.
F. S. BAKER, Architect,
90 Yonge Street, Toronto.

**TENDERS
FOR
SANITARY SEWER IN LINDSAY**

Tenders will be received by the undersigned, up to
3 o'clock p.m. on MONDAY, JULY 4TH, instant, for
the construction of a Sanitary Sewer on the south side
of Kent Street, from Lindsay to William Street, and
forming a junction with the trunk sewer on Lindsay
Street, of 6 inch vitrified tile, at an average depth of
about 9 feet. Tenders to include all material and work
and to provide all necessary public and private con-
nections along said sewer, the length of which will be
about 600 feet.

F. KNOWLSON, Town Clerk,
Lindsay, Ont.

CITY OF WINNIPEG

Tenders for the Supply of Cast Iron
Pipe, Specials, Hydrants, &c., for
the Purpose of a Waterworks
System.

Sealed tenders, addressed to W. G. Bell, Esq., Chair-
man of the Committee on Fire, Water and Light of the
City of Winnipeg, for the supply of the Cast Iron Pipe,
Specials, Hydrants, Valves, &c., require for the estab-
lishment of a Waterworks System in the City of Winni-
peg, will be received at the office of the undersigned up
to 8.30 p.m. on

Monday, 8th August, 1898.

Specifications, bills of quantities, &c., may be ob-
tained on application at the office of the City Engineer,
Civic Offices, Winnipeg.
The lowest or any tender not necessarily accepted.

C. J. BROWN, City Clerk.
City Clerk's Office, Winnipeg, June 8th, 1898.

TENDERS

For the erection of a brick annex to the Dundas Street
Central Methodist Sunday School, London, Ont., will
be received until

MONDAY, JULY 11th,

at the office of Moore & Herry, Architects, London,
where plans and specifications may be seen. Lowest
or any tender not necessarily accepted.

WM. BOWMAN,
Chairman of Committee.
C. J. BEAL, Secretary.

TO CONTRACTORS

Sealed tenders will be received by the Public Works
Committee of the Council of the City of St. Thomas,
addressed to the City Engineer, until

Noon on Monday, July 4th,

for the repaving of Talbot Street, from Mary Street
westerly to the end of the present pavement.

Each proposal to be accompanied by a marked
cheque or cash deposit for three per cent. of the amount
of the contract.

Specifications of the work and all information may be
obtained at the office of the City Engineer.

The lowest or any tender not necessarily accepted.

JAS. A. BELL,
City Engineer
ALD J. WALLIS,
Chairman of Committee.

**TOWN OF TRENTON
WATERWORKS**

Proposals, addressed to A. W. Hawley, Esq., Presi-
dent Trenton Water Company, Trenton, Ont., will be
received at his office up to noon, THURSDAY, 30TH
DAY OF JUNE, 1898, for the Construction of Reser-
voir, 100,000 gallons capacity, either of masonry or con-
crete.

Construction of Reservoir Well at pump house.
For the supply of Cast Iron Pipe, Special Castings,
Hydrants, Valves &c., required for proposed Water
Works System in the Town of Trenton.

Full particulars can be had and plans and specifica-
tions seen at Trenton Water Co.'s office, Trenton, Ont.
Separate or bulk tenders accepted.

Marked bank cheque, 6 per cent., payable to the
Treasurer of Trenton Water Company, must accompany
tender.

The lowest or any tender not necessarily accepted.

J. D. EVANS, M.C.S., C.E.,
Engineer.
Trenton, June 20th, 1898.

**TENDERS WANTED
FOR
Drainage Work**

Sealed tenders, endorsed "Tenders for Drainage,"
and addressed to J. A. Cockburn, Chrysler, Ont., will
be received up to the hour of 12 o'clock, noon, on MON-
DAY, THE 15TH DAY OF JULY, 1898, for the
Deepening, Widening, Straightening, Improving, etc.,
Blue Creek, in the 7th Concession, Township of Finch.

Estimated cost of excavation	\$ 978.13
Bridges	101.00
Grubbing, etc	187.50
	\$1,266.63

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 I. H. Wiggins,
Engineer, Gleggavry Block, Cornwall, Ont., on and
after Monday, July 4th, 1898.

The lowest or any tender not necessarily accepted.

J. R. W. CRYSLER, Reeve.
J. A. COCKBURN, Clerk.

T. H. WIGGINS, Engineer.
NOTE.—This work will probably be extended.

TENDERS WANTED

Sealed tenders will be received by the undersigned,
on behalf of the County of Humber, on the 2 o'clock p.m.
on SATURDAY, THE 30TH DAY OF JULY NEXT,
instant, at the Wingham post office, for taking down,
removing 2 1/2 miles, and erecting one span of an Iron
Bridges 47 feet long, also for erecting the superstructure
of a steel span of 70 feet in length, from centre to centre
of the seats. Roadway to be 16 feet wide. Height
above water about 45 feet. Hand bottom. The bridge
is to be erected at the Village of Manchester, about
seven miles from Blyth Station, on the T. H. & Bruce
R.R. All further information may be obtained by
mail.

The lowest or any tender not necessarily accepted.
Security required for the due completion of the con-
tract.

The bridges must be completed on or before the 15th
day of September next, 1898.

JOHN ANSLEY,
County Commissioner.
Wingham, June 20th, 1898.

**TENDERS
FOR
GRANOLITHIC WALKS**

Tenders will be received by registered post only, ad-
dressed to R. H. McKay, Chairman of Streets Com-
mittee, Walkerton, up to 4 o'clock p.m. on SATUR-
DAY, JULY 2 D, 1898, for the construction of Grano-
lithic Walks on the following streets: Durham Street
North, about 300 feet long, 10 feet wide; Durham
Street South, about 924 feet long, 10 feet wide, also
street crossings, Colborne Street, West Side, about 334
feet long, 5 feet wide; Gibson Street, East Side, about
676 feet long, 5 feet wide; Jackson Street, East Side,
about 390 feet long, 5 feet wide; Jackson Street, West
Side, about 1155 feet long, 5 feet wide; and street cross-
ings: Yonge Street (west side), about 10 feet long and
five feet wide.

Specifications may be seen and forms of tender ob-
tained at the Town Clerk's office, Walkerton. A de-
posit in the form of a marked cheque, payable to the
order of the Town Treasurer, for the sum of 2 1/2 per
cent. of the value of the work tendered for, must accom-
pany each and every tender, otherwise they will not be
entertained. Tenders must be accompanied by the signa-
tures of the contractor and his sureties, or they will be ruled
out as informal.

The lowest, or part of, or any tender not necessarily
accepted

W. S. GOULD, Town Clerk
Walkerton, Ont., June 21st, 1898.



Tenders For Fire Hose

Tenders addressed to the undersigned, will be
received by registered post only, up to 12 o'clock noon
on WEDNESDAY, JULY 6th, 1898, for supplying
3,000 feet of 1 1/2 inch fire hose without couplings.

Forms of tender and all further information may be
obtained upon application at the office of the Fire
Department, Richmond Street, Fire Hall, Toronto. A
cash deposit or marked cheque equal to 5 per cent. of
the total amount of the contract if under
\$1,000, and 7 1/2 per cent. if over that amount, must
accompany each tender, and the same will be forfeited
to the city in the event of the person whose tender is
accepted failing to execute the necessary contract or
give satisfactory sureties for the due fulfilment of the
same.

The deposit of unsuccessful tenders will be
returned.

The lowest or any tender not necessarily accepted.

JOHN SHAW (Mayor),
Chairman Board of Control.
City Hall June 27th, 1898.



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

Wednesday, July 6th, 1898,

for the construction of the following works.

ASPHALT PAVEMENT:

Cowan Avenue, from King Street to Queen Street.

BRICK PAVEMENT:

Dundas Street, from Queen Street to Arthur Street.

MACADAM ROAD:

Bernard Avenue, from Avenue Road to Bedford Road.

CEDAR BLOCK PAVEMENTS:

Murray Street, from Clee Howell Street to north end

Shaw Street from Queen Street to Arthur Street

TAMARAC PAVEMENT

Scott Street, from Front Street to Esplanade (on concrete).

CONCRETE SIDEWALKS:

St. George Street, west side, from Harbord to Bloor Street.

Queen Street, south side, from 44 feet west of Victoria Street to a point 110 feet farther west.

Elizabeth Street, east side, from College Street to first lane north.

Queen Street, north side, opposite new City Hall.

Albert Street, south side, opposite new City Hall.

TRACK ALLOWANCE PAVEMENTS—

SCORIA, GRANITE OR BRICK:

Queen Street, Yonge Street to Bathurst Street.

King Street, Simcoe Street to Spadina Avenue.

Yonge Street, Bloor Street to Davenport Road.

Plans and Specifications may be seen and forms of tender obtained at the office of the City Engineer, Toronto, on and after June 27th, 1898.

A deposit in the form of a marked cheque, payable to the order of the City Treasurer, for the sum of 2 1/2 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 22, 1898

CONTRACTS OPEN.

MIDLAND, ONT.—William Carson will build a residence on Hugel Square.

LISTOWEL, ONT.—Tenders have been invited for building granolithic walks.

MORDEN, MAN.—J. F. Galbraith has commenced the erection of a residence.

NEWMARKET, ONT.—Robert Meads is about to erect a residence on Park ave.

SOUTH WOODSLEE, ONT.—William Wilcox is preparing to build a residence.

PERTH, ONT.—The construction of granolithic pavements is being advocated.

MERRICKVILLE, ONT.—Tenders are asked for extensive repairs to the public school.

BURK'S FALLS, ONT.—The R.C. congregation have decided to build a new church.

HULL, QUE.—The City Council has decided to provide a waterworks system at once.

CALEDONIA, ONT.—The corner stone of the new Presbyterian church was laid on Friday last.

FERGUS, ONT.—Improvements are to be made in the school building, including new system of heating.

PETROLEA, ONT.—Mr. Erb, architect, has prepared plans for new church for the Methodist congregation.

ACTON, ONT.—It is expected that the erection of the proposed Baptist church will be commenced this fall.

RIVER CHARLO, N. B.—Tenders close this week, at office of P. Hamilton, for the erection of Presbyterian church.

WOODSTOCK, N. B.—The Carleton county council has authorized the Finance Committee to negotiate a loan of \$5,000.

WINDSOR, ONT.—The People's Telephone Co. have secured a franchise for Windsor, Sandwich and Walkerville.

WOODSTOCK, ONT.—A. Henderson is taking tenders this week for the erection of a store, 50 x 34 feet, 1 1/2 stories high.

GEORGETOWN, ONT.—Tenders are invited by Joseph Barber for painting and decorating the Presbyterian church here.

APOLIAQUI, N. B.—James Nollan, of Smith's Creek, is preparing to build a residence near the mouth of the Millstream.

RAPID CITY, MAN.—George Fox, implement dealer, has completed arrangements for the erection of a large stone warehouse.

WATERLOO, ONT.—Bryen E. Bechtel, Chairman Finance Committee, will receive tenders up to July 2nd for the purchase of debentures.

ALEXANDRIA, ONT.—Plans of the proposed new sewerage system were last week inspected by Dr. Bryce, of the Provincial Board of Health.

BROOKLE, ONT.—Tenders for the construction of two bridges on the tenth concession of Brookes will be received by L. Lindsay up to July 11th.

ST. THOMAS, ONT.—A by-law will be submitted to the ratepayers to authorize an additional expenditure of \$9,000 for the building of two schools.

MILLTOWN, N. B.—E. H. Balkan, secretary Board of School Trustees, has invited tenders for building an addition to the Boardman street school.

BERLIN, ONT.—Plans are being prepared by A. W. Holmes, architect, of Toronto, for a new R.C. church to be erected here this fall, to cost \$10,000.

KINKORA, P.E.I.—Tenders are asked up to July 4th, for the erection of a stone church here. Plans at office of W. C. Harris, architect, Charlottetown.

PORT COLBORNE, ONT.—Dr. Bryce, secretary Provincial Board of Health, will report on the extension of the waterworks and sewerage system of this town.

LEAMINGTON, ONT.—A by-law to provide for the improvement of drainage works in the township of Mersea will be voted on by the ratepayers shortly.

COLLINGWOOD, ONT.—The County Council has appointed a committee to report as to the advisability of purchasing one or more stone crushers and one steam roller.

PORT DALHOUSIE, ONT.—Dr. Bryce, of the Provincial Board of Health, will report to the municipality as to the necessary improvements to the sewerage system.

SANDWICH, ONT.—A by-law authorizing the expenditure of \$2,500 for a new dock and the extension of the Mill street sewer was carried by the ratepayers last week.

PRESCOTT, ONT.—The vote on the by-law to raise \$100,000 for the construction by the town of water works and sewerage systems will be taken at an early date.

ASHBURNHAM, ONT.—On July 20th the ratepayers will vote on the question of raising \$15,000 by debentures to provide for the establishment of a water works system.

BETON, ONT.—Mr. Hunt, of Galt, has decided to build a four-story brick flour mill in this town.—The village has passed a by-law to raise \$3,500 for an electric light plant.

MONCTON, N. B.—D. Pottinger, general manager Intercolonial railway, will receive tenders up to Friday, July 15th, for the construction of a wharf and freight shed at the deep water terminus at Halifax, N.S.

PORTAGE LA PRAIRIE, MAN.—Tenders for the erection of a four-room addition to the East Ward school will be received by W. A. Priest, secretary-insurer, up to July 4th. Plans at office of P. C. Silverthorne, architect.

ST. JOHN, N. B.—Tenders close on Saturday next, at the office of A. B. Pickett, architect, for the enlargement of St. James' Sunday school house.—The Director has recommended street improvements, to cost over \$20,000.

RICHMOND, QUE.—Tenders will be received by W. E. Jones, secretary St. Francis Bridge Co., up to July 25th for raising, taking apart, and depositing on the shore the wrecked span of the bridge now in the water off Melbourne shore.

FORT WILLIAM, ONT.—The town council have resolved to grant a bonus of \$50,000 and a free site to a company which proposes erecting iron smelting works. Messrs. John Crerar and S. F. Eagle, of Chicago, are interested in the proposed industry.

PETERBORO, ONT.—B. F. Ackerman proposes building an addition to his establishment on George street, having a frontage of 70 feet.—Tenders will be received by the town up to July 4th for the construction of granolithic walks. W. E. Belcher, town engineer.

COBOURG, ONT.—Tenders close on Saturday next at noon for the purchase of \$20,000 of debentures. Neil F. Macnatchon, county treasurer.—The Cobourg Woollen Works have been purchased by Dick, Ridout & Co., of Toronto, who will improve the buildings and add new machinery.

LINDSAY, ONT.—The town commissioner has recommended that the Council purchase a stone crusher.—Rev. Mr. Johnston is building a new residence at the corner of Victoria avenue and Bond street, to be brick veneer, fitted with electric light, furnace, bath and modern improvements.

QUEBEC, QUE.—It has been decided not to extend the electric railway to Montmorency this year, but everything will be in readiness to change the system from steam to electricity next year.—Berlinquet & Lemay, architects, are taking tenders for the interior finishing of the Chapel of the Patronage, Cote d'Abraham.

BRANTFORD, ONT.—The plans proposed by the city engineer for the prevention of floods provides for an extension of the G.T.R. bridge, at a cost of \$7,000.—The Brantford Electric & Operating Co. will expend the sum of \$10,000 in putting in new plant, having received the contract for street lighting for ten years.

VANCOUVER, B. C.—The Great Northwestern Telegraph Co. are about to build a line from this city to New Westminster.—Thomas F. McGuigan, city clerk, has invited tenders for the purchase of \$93,000 of local improvement debentures.—The City Council has arranged for a loan of \$56,000 for constructing asphalt pavements.

CHATHAM, ONT.—Powell & Carswell, architects, want tenders by July 2nd for a two storey frame house at Merlin.—J. L. Wilson & Son, architects, are taking tenders this week for a brick school house in school section No. 13, township of Dover.—The town engineer has been instructed to advertise for tenders for road machinery.

STRATFORD, ONT.—The City Council has accepted the plans submitted by Alex. Hepburn & Son, architects, of this town, for the restoration of the municipal building, and those submitted by G. W. King, architect, of Toronto, for the new building. According to these plans, the reconstruction will cost \$21,000 and the new building \$28,000. Other architects who submitted plans were: J. L. Wilson & Son, Chatham; H. J. Powell and R. B.

Barber, Stratford; Strickland, Symons & Rae, Toronto; J. W. L. Siddall, Toronto; George Craddock, London; Wells & Raeside, Montreal; and J. Ades Fowler, Goderich.

HALIFAX, N. S.—F. W. W. Doane, city engineer, is taking tenders this week for the construction of a bathing pier at Greenbank.—R. J. Wilson, secretary School Commissioners, wants tenders by Monday, July 4th, for the erection of additions to Compton avenue and Morris street schools, from plans by Elliott & Hopson, architects.—It is expected that the Dominion Government will shortly invite tenders for the grain elevator to be erected here.

VICTORIA, B. C.—The British Columbia Electric Railway Co. have asked for an extension for two years of the time for the completion of their railway.—Mr. Shaughnessy, vice-president of the C.P.R., states that arrangements between the Columbia and Western Railroad Co. and the government relative to the construction of the railway from Robson, B. C., to Boundary, have been definitely settled. He is under the impression that negotiations will shortly be completed between the government and the promoters of the Vancouver, Victoria and Eastern railroad for the immediate construction of the line from Pentiction to Boundary.—The city engineer has recommended the rebuilding of the Rock Bay and James Bay bridges.

LONDON, ONT.—The Hospital Committee has recommended that steel beams to carry the division walls be used in the new Jubilee Hospital.—The city engineer will report as to the cost of a vitrified brick or macadam roadway on Dundas street, between Wellington and Waterloo streets.—The School Board are now inspecting the schools with a view of deciding upon necessary improvements.—At a recent meeting of the Sewage Committee, the question of adopting the chemical precipitation plan for the disposal of sewage was referred to the city council. A report was read from the American Sanitary Engineering Co., of Detroit, Mich., stating that the estimated cost of sewage disposal works, comprising three sewage tanks, three filters, with necessary channels, piping, machinery, etc., the plant to have a daily capacity of 1,000,000 gallons, would be \$41,800.

HAMILTON, ONT.—The inspector of the Canadian Underwriters' Association recommends the procuring of new frames for the main pump at the waterworks station, at a cost of about \$4,000.—It is understood from Mr. A. T. Wood, M. P., that nothing will be done this year regarding harbor improvements, but that a sum of \$50,000 will be placed in next year's estimates for rebuilding the piers and deepening the canal.—The Property Committee of the County Council are considering plans for the enlargement of the registry office.—Interior alterations will be made to the Times Printing Co.'s offices, at a cost of \$1,500.—The ratepayers will be asked to vote on a by-law for the construction of four trunk sewers, estimated to cost \$50,000. The vote will be taken on July 27th.—The City Council has decided to take no action at present towards heating and ventilating the city hall, the cost of which would, according to a report by Adam Clark, be about \$3,100.—The directors of the Young Women's Christian Association are making an appeal to citizens for subscriptions to erect a new building, plans for which have been prepared by William & Walter Stewart, architects; estimated cost, \$15,000.—The City Engineer is figuring upon the installation of a smoke-consuming and fuel-saving device at the high level pumping station.—The Finance Committee propose to expend \$20,000 in improving York street, from Macnab to Queen streets; King street, from Wellington to Wentworth streets; Main street, from Macnab to Walnut

streets; and John street, from King to Murray streets.

MONTREAL, QUE.—Saxe & Archibald architects, are preparing plans for alterations and improvements to the Seymour property on Fort street, for Mrs. Henry Folsom, of St. Albans, Vt.—A. G. Ross & Co., real estate agents, Canada Life Building, want a site, situated in St. Anns or St. Gabriel wards, suitable for factory purposes.—It has been decided to proceed with the plan known as No. 12 A of the harbor improvements. This plan includes the following work: Shore wharfing, 3,850 feet in length, 275 feet in width; three wharves each 300 feet wide, two of these being 1,000 feet in length and one 660 feet in length.—The city is receiving tenders this week for the supply of granite, porphyry, scoria or massillon paving blocks, and for the supply and laying of rock, Trinidad or alcatraz asphalt pavements.—Mr. A. W. McQuat, public school inspector, in a letter to the commissioners, points out the necessity of a new school building for Outremont.—J. Emile Vanier, architect, 107 St. James street, is now taking tenders for masonry and cut stone for the new church and annexes for the wardens of the Parish of St. Jean Baptist, to replace the building destroyed by fire some months ago.—A. Roy Macdonald is enlarging Elm Hall at Westmount. The front of the building will be of Vermont blue marble.—Tenders are asked by the city up to July 9th for the erection of a fire station, corner Notre Dame and Beaudry streets, St. James Ward. Plans at office of J. B. Resther & Sons, architects, Imperial Building.

OTTAWA, ONT.—It is reported that the Ottawa Electric Railway Co. intends extending the road to Britannia. It is also rumored that a bridge is to be built across to Aylmer.—The report is current that the Grand Trunk Railway Co. is preparing to build a branch of their road into this city, and that their surveyors are now locating a route.—The Central Canada Fair Association have commenced extensive improvements to be carried out at the exhibition grounds. It is possible that the authorities will decide to erect a building for a dog show.—George Sleeman, of Guelph, was in the city recently selecting a site for a proposed brewery building.—The Warren Scharf Paving Company, who secured the contract from the city for street pavements, purpose establishing a paving plant at once, and are looking for a suitable site.—It is probable that at an early date improvements to the waterworks system will be carried out. It is advocated by some that the pumping machinery should be

increased to a capacity of 20,000,000 gallons per day, the present aqueduct enlarged, and hydraulic pumps or a steam auxiliary provided. By a special act of the Ontario Legislature, passed last year, the corporation was empowered to issue debentures to the extent of \$75,000 for improving this system. Of this amount, only \$15,000 has been spent, leaving \$60,000 still available.—Building permits have been granted as follows: John W. H. Watts, brick dwelling, Cartier street, cost \$3,000; John Ferguson, stables and ice-house, Albert street, cost \$1,500; Chas. Magee, two frame houses, Lewis street, cost \$2,400; C. Hopewell, two detached brick veneered houses, Flora street, cost \$2,000; Thos C Kehoe, brick veneered house, Sweetland ave., cost \$2,000; Charles E. Reid, alterations to house at 253 Augusta street, cost \$2,100.

TORONTO, ONT.—The following local improvements are proposed. Fourteen foot asphalt pavement on each side of track allowance on York street, from King to Front street, cost \$9,000; cedar block pavement on Scollard street, from Yonge to Hazelton avenue, cost \$3,400; concrete sidewalk on south-east corner Simcoe and Wellington street, cost \$550; brick sidewalk on Portland street, from Front to King street, cost \$650.—A committee of the city council are now inspecting the various sites offered for the location of a smallpox hospital.—Plans have been prepared by F. H. Herbert, architect, for the remodelling of three dwelling houses on Ontario street for John W. Carter, at an estimated cost of \$5,000.—It is announced that plans have been prepared by a New York architect for a mammoth hotel to be built on the south side of King street, extending from the western end of R. Walker & Son's building to the Catto building, giving a frontage of 210 feet and a depth of 200 feet. An arcade will be formed from Scott street to Wellington street on the south, and from there a sub-section forming a radiating centre will extend to Colborne street entrance. The building as now proposed will cost \$750,000, and will be built by an English syndicate.—The site is being prepared for a five-story factory building, 180 x 51 feet, to be erected on Pearl street for the Swiss Laundry Company. It will be of brick, and fitted with modern appliances.—Building permits have been granted as follows: Canada Permanent Loan Co., alterations to buildings, 14 to 22 Toronto street, cost \$11,000 (R. J. Edwards, architect; E. Mitchell & Co., builders); Trustees Toronto General Hospital, pair attached one-story and mansard houses, 23 and 25 Farley ave., cost \$1,800; J. B. Sparrows, interior alterations and addi-

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tions to Toronto Opera House, Adelaide street west, cost \$1,200 (J. A. Radford, architect).

CONTRACTS AWARDED.

HALIFAX, N. S.—Fire hose. Gutta Percha & Rubber Co., Toronto.

PARRY SOUND, ONT.—Dock for Kerr & Harcourt: Richard Fortune, contractor.

FREDERICTON, N.B.—Residence for G. C. Hunt: Henry Clark, contractor; cost \$8,000.

HAMILTON, ONT.—Building weigh scales for city: Coleman Lumber Co., \$1,095.—Water meters. Westinghouse Mfg. Co.

PORT ARTHUR, ONT.—It is understood that contracts have been let for the erection of buildings to replace those destroyed last week.

MOUST FOREST, ONT.—\$15,000 worth of 30 year 4 per cent. debentures, and \$25,500 worth of waterworks debentures have been sold to the Ontario Mutual Life Assurance Co.

KINGSTON, ONT.—Addition to dwelling for L. L. Henderson Power & Son, architects: Free & Lytton, masonry; G. Birch, carpenter work; Simmons Bros., plumbing; T. M. Milo, painting and glazing.

COLLINGWOOD, ONT.—Contracts have been let as follows in connection with House of Industry: Extending water system of Beeton, Fildes & Hogarth, Toronto, \$1,406; sewerage, storage and discharges, Bennett & Wright Co., Toronto, \$1,798; marble tablet, Buley & Healy, \$120; removing barn and building stone basement, W. H. Sleight, \$538; fire doors, elevators, dumb waiters, etc., Bennett & Wright Co., \$1,700.

LONDON, ONT.—The Board of Education have accepted the following tenders for a four-room addition to the Collegiate Institute: Brickwork, Moran & Ridge, \$3,358; carpenter work, Ward & Pepper, \$2,675; painting and glazing, R. Lewis, \$369; plastering, Gould Bros., \$185; galvanized iron work, J. C. Park, \$43.50; metallic ceiling, Jos. W. Chambers, \$218; slating, John Whittaker, \$248; heating, James Thompson, \$248; plumbing, F. C. Hunt, \$77; electric wiring and fixtures, London Electric Co., \$155; total, \$7,576.

MONTREAL, QUE.—The Luxfer Prism Company have recently been awarded contracts for prism work and forlux frames for Henry Morgan & Co., and also for forlux prisms for Messrs. Caverhill & Kissock and John Murphy & Co.—Saxe & Archibald, architects, have let contracts as follows for the erection of a residence on Grosvenor avenue for Chas. Manhill. Masonry and brickwork, Higgins & Stuart; carpenter and joiner's work, Mr. Ford. Same architect has let the following contracts for a block of six houses for M. S. Foley, Greene avenue: Masonry and brickwork, Higgins & Stuart; carpenter and joiner's work, D. M. Long. Peter Lyall has secured the contract for the masonry, brickwork, carpentry, plastering and steel work of the theatre building for the Western Theatre Co., to be built at the corner of Guy and St. Catharines street, from plans prepared by J. B. McElfatrick & Son, architects, New York. The price of this contract is about \$41,000.

TORONTO, ONT.—The Luxfer Prism Company, Ltd., have secured extensive contracts from the Imperial Bank to improve the light in the head office of the bank on Wellington street; also for the branch at corner of Yonge and Queen streets. The Luxfer Prism Company

also have contracts for prism work on the Winnipeg branch, and on a new building now under construction at Vancouver, B. C.—The Property Committee of the Public School Board accepted the following tenders on Monday last: Enlargement of Brock avenue school by two additional rooms. Masonry, T. Cannon & Son, \$1,955; carpentering, E. Hollett & Co., \$2,442; painting, Campbell & Brochie, \$134; plastering, James Petrie & Co., \$144; roofing, H. Williams & Co., \$117; tinsmithing, A. B. Ormsby & Co., \$39; metal ceilings, Douglas Bros., \$135; heating and ventilating, J. F. Pease Furnace Co., \$450. Clinton street school, addition of two rooms: Masonry, Davidge & Lunn, \$1,376; carpentering, E. Hallest & Co., \$2,910; plumbing, J. Sherlock & Co., \$358; painting, T. Barrett, \$365; plastering, E. Warren, \$190; roofing, A. J. Moody, \$297; tinsmithing, A. Mathews, \$49; metal ceilings, Metallic Roofing Co., \$195; heating and ventilating, Smead, Dowd & Co., \$87. Dewson street

school, addition of three rooms: Masonry, E. Gearing, \$890; carpentering, M. Hutchinson, \$3,843; plumbing, J. Sherlock, \$158; painting, James Phinnimons, \$539; plastering, T. Gander & Son, \$235; roofing, A. J. Moody, \$480; tinsmithing, A. B. Ormsby & Co., \$49; metal ceilings, Metallic Roofing Co., \$320; heating and ventilating, Smead, Dowd & Co., \$1,235. Dufferin school, addition of three rooms: Masonry, T. Gearing, \$2,170; carpentering, M. Hutchinson, \$2,757; plumbing, J. Sherlock, \$287; painting, T. Barrett, \$270; plastering, James Petrie & Co., \$200; roofing, A. Mathews & Co., \$191; tinsmithing, A. B. Ormsby & Co., \$109; metal ceilings, A. Mathews & Co., \$122; heating and ventilating, Purdy, Mansell & Co., \$569. Givens street, addition of three rooms: Masonry, T. Cannon & Son, \$2,274; carpentering, M. Hutchinson, \$2,859; plumbing, J. Sherlock, \$92; painting, R. J. Stanley, \$470; plastering, T. Gander & Son, \$220; roofing, A. J. Moody, \$220; tinsmithing, Tucker &

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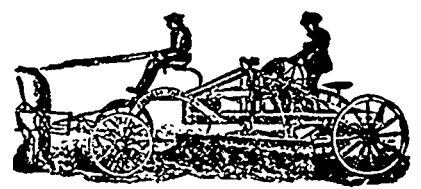
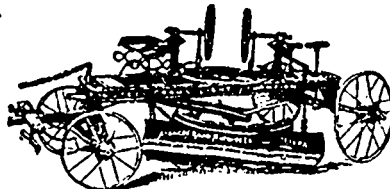
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Dillon, \$30; metal ceilings, Metallic Roofing Co., \$115; heating and ventilating, J. F. Pease Furnace Co., \$515. Ryerson school, addition of five rooms: Masonry, T. Cannon & Son, \$3,472; carpentering, J. R. Marshall, \$4,300; plumbing, J. Sherlock, \$353; painting, T. Barrett, \$600; plastering, James Petrie & Co., \$378; roofing, H. Williams & Co., \$245; tinsmithing, A. B. Ormsby & Co., \$129; metal ceilings, Douglas Bros., \$216; heating and ventilating, Purdy, Mansell & Co., \$595. Tenders for repairs and alterations to other schools were also accepted.—The following paving contracts were awarded by the Board of Control last week: Clinton street, brick, John F. Connolly, \$12,671; Close avenue, brick, John F. Connolly, \$7,109; Yonge street, between King and Hayter, scoria blocks on track allowance, Constructing & Paving Company, \$2.17 per square yard; St. Patrick street, cedar block, Constructing and Paving Co., \$1,300; Simcoe street, concrete walk on east side, between Wellington and Front streets, Gardner & Co., \$2.10 per foot for 12-foot kerb, and \$2.90 for 16-ft. 9-in. kerbs; Euclid avenue, asphalt, Warren-Scharf Co., \$8,529.40; Yonge street, from Bloor to Davenport, asphalt, Constructing and Paving Co., \$10,068.—E. J. Lennox, has let contracts as follows for store front for Bilton Bros., King street: Stone work, Walter Page; woodwork, Chas. Rogers & Sons; painting and glazing M. O'Connor.—A. R. Dennison, architect, has let contracts as follows for new buildings for Geo. H. Hees & Co., Davenport road: Masonry, H. Lucas; carpentry, R. G. Kirby; painting, John Stewart; heating, Purdy, Mansell & Co; other trades not let.

OTTAWA, ONT.—The following tenders were received by the city for new fire hall in St. George's ward, from plans by J. F. Alexander, architect: Cowie & Wilson, \$6,666 (accepted); Felix McCullough, \$7,312; A. Garvock, \$7,319; McEivela & Copeland, \$6,900; Richard Tobin, \$7,150; Geo. Ambridge, \$6,998; Patrick Kennedy, \$7,790; Racine & McGowan, \$7,500.

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DISPOSAL OF SEWAGE.*

By P. H. BRUCE, M.A., M.D.
(Concluded).

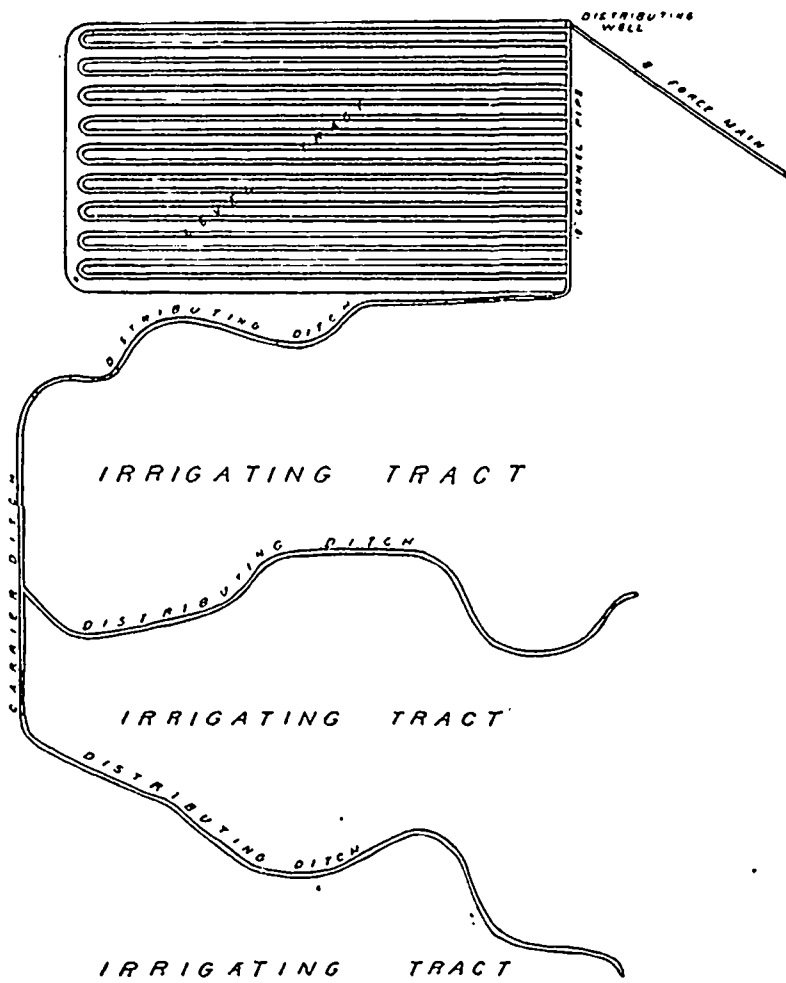
4. If such further purification is desired, the sewage is allowed to filter in a thin film over the coke or other filtering material in a tank without diaphragm, as in Fig. 2, which is constantly aerated under pressure by a blower, clear water flowing out of a trapped pipe at the bottom.

One such tank is enough to cleanse the average flow of sewage, and is used continuously, nitrification completing the decomposition of the sewage.

While, however, the methods which I have indicated fully indicate the principles of filtration, we must remember that no artificial methods can excel, if indeed they can equal nature's method of the destruction of organic matter and the purification of polluted waters. In England, France and Germany, we have illustrations of this at the sewage farms of large cities, as Birmingham, Coventry, etc., in England; at Gennevilliers, near Paris, France, and the great sewage farms of Berlin. There, with naturally sandy and pervious soils or sandy loams, made more pervious by sub-soil drainage, the raw sewage is either led by gravity or pumped to the carriers of the sewage beds, and either by broad irrigation on meadows, or by intervening broad and shallow ditches or furrows, paralleling the raised ridges, intermittent irrigation, or so-called intermittent downward filtration, is practised. The productiveness of these sew-

have proved to be good investments, even after including the handling of the sewage, which ought not to be considered when comparing such with other methods

What is essential to success in all these municipal works is stability in the appointment of a farm manager or overseer and of his assistants. It is in the nature



PLAN FOR SEWAGE DISTRIBUTION.

where nothing is produced. Nowhere, however, has the method had better practical illustration in this province than at the London Institution for the Insane, where for nearly ten years the flat bed system of cultivation, with intervening broad and shallow ditches for intermittent filtration, has been carried on. Products, approaching \$500 per acre annually in value, have been taken off the beds, consisting of small fruits and vegetables of the most splendid quality, while the whole field has been developed into the most perfect gardens and parterres that may be seen in any vegetable garden in the country. All this is accomplished by the aid of one foreman; all the rest of the work being performed by the inmates of the institution.

of things a business requiring some mechanical aptitude, agricultural skill and scientific knowledge of the process of plant life. The engineer may have some of these, and will with practice be able to obtain them all, and may if patient get such foremen as will certainly make a sewage farm pay the cost of maintenance. It is a method which must inevitably grow, as the municipal mind grows in the knowledge and practice of scientific methods, and the one which will guarantee the greatest success, both from the sanitary standpoint and economy in annual expenditure.

THE GREAT NILE DAM.

The great dam which Sir Benjamin Baker and the firm of Jno. Aird & Co. are going to construct across the Nile just below the Temples Philæ, will be the first great engineering work to be completed in the twentieth century. Its value to Egypt commercially can hardly be estimated; its effect and the dimensions of the great reservoir which it will create are difficult to realize. The colossal character of the dam will be apparent when it is stated that the flood discharge of a river a mile wide and 30 ft. deep will be discharged through its sluices. At times the river will be dammed back to a height of about 66 ft. above its present level, and for a distance of 144 miles above the dam—the effect will be, in fact, that of a lake 144 miles in length. The quantity of water impounded will be more than 1,000,000,000 tons.

At some periods of the year 900,000 tons a minute will gush through the dam's sluices.

The accompanying diagram represents the sewage farm, including the level trail with its flat beds and intervening ditches; also the ditch broad irrigation on the inland surface. The latter has never

been required

Several of our towns have already introduced or are about to dispose of their sewage by sewage farms, although as yet they appear to be slow to realize the economic value of working the farm for profit as well as for sewage disposal.

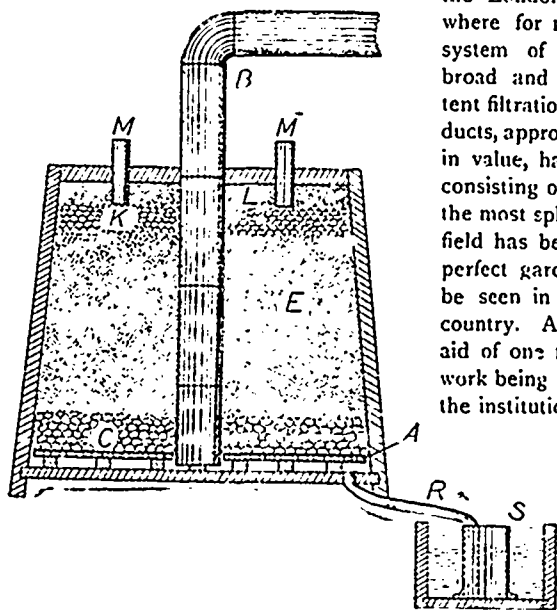


FIG. 2.

C & K—Coarse gravel.
L—Coke.
M—Admission pipe.

age farms has been phenomenal, and they

* Abstract of a paper read before the Engineering Society of the School of Practical Science, Toronto.

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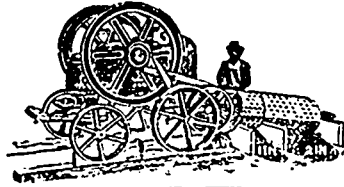
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Large index table listing various building materials and services, including architects, cement, lime, iron, and machinery.

Table listing prices for hydraulic cements and various types of iron pipes.

Table listing prices for slates, paints, and various types of oils.

Table listing prices for cement, lime, and various types of iron pipes.

CORRECTED UP TO JUNE 28TH.