

# CANADIAN Contract Record

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

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

VOL. 15.

TORONTO, MONTREAL AND WINNIPEG, SEPTEMBER 7, 1904

No. 30.

## THE CANADIAN CONTRACT RECORD

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As an Intermediate Edition of the Canadian Architect and Builder.

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## TENDERS

Tenders will be received by the undersigned up to NOVEMBER 1ST, 1904, for the construction of a System of Waterworks and Sewerage for the Town of Summerside, P.E.I., according to plans and specification made by Mr. R. C. Lea, C.E., of Montreal. Plans and specifications may be seen at the Town Clerk's office, Summerside. The lowest or any tender not necessarily accepted.

H. J. MASSY, Town Clerk.  
Town of Summerside, P.E.I., Aug. 10, 1904.

## TO CONTRACTORS

Separate or lump tenders will be received until MONDAY, THE 12TH OF SEPTEMBER, for the erection of a Large Fireproof Sub-station Building, to be erected on the premises of the Toronto and Niagara Power Co., at Niagara Falls, Ont., and situated near the junction of the Stone Road and the Michigan Central Railroad, for the Toronto & Niagara Power Co.

Plans and specifications can be seen and all other information obtained at the office of the architect, Toronto, and also at the office of the company, Queen Victoria Park, Niagara Falls, Ont.

R. J. LENNOX, Architect, Toronto.

TOWN OF EAST TORONTO  
Province of Ontario.

## TENDERS FOR CHIMNEY

Tenders will be received by the undersigned up to 8 p.m. on MONDAY, SEPTEMBER THE 13TH, 1904, for providing all the materials for and erecting a

### Brick Chimney 75 Feet High

with concrete foundation, beside the present Power-house at the south-west corner of Gerrard and John Streets.

Plans and specifications may be seen and forms of tender obtained at the office of the undersigned, or at the head office of John Galt, C.E. and M.E., Chief Engineer, Toronto. A certified bank cheque for \$200 must accompany each tender.

W. H. CLAY, Clerk,  
Town of East Toronto.

## TO BRIDGE CONTRACTORS

The time for receiving tenders for superstructure of North Dumfries bridge has been extended to SEPTEMBER 9TH. Specifications may be obtained from W. M. Davis, Engineer, Economical Block, Berlin.

JOHN FHEILS, Reeve, North Dumfries,  
Galt, Ont.

## NOTICE TO CONTRACTORS

Sealed tenders will be received by the undersigned for the construction of the Hunter drain in the Township of Mornington. Plans and specifications can be seen in the office of John Watson, Township Clerk. The lowest or any tender not necessarily accepted.

JOHN DAVIDSON, Reeve,  
Township of Mornington, Burns, Ont.

## TENDERS

Tenders addressed to the undersigned will be received by the Corporation of the Village of Lanark until MONDAY, THE 12TH DAY OF SEPTEMBER, 1904, for the construction of a bridge over the River Clyde in said village. One pier and two abutments of concrete, steel I beam stringers and wooden floor required.

Contractor to furnish all material. Plans and specifications may be seen and other information obtained at the Clerk's office. The lowest or any tender not necessarily accepted.

WM. A. FIELD, Village Clerk.  
August 31st, 1904.

## GRIMSBY WATER WORKS

Sealed tenders will be received by the Village Clerk until 8 p.m. MONDAY, SEPTEMBER 20TH, 1904, for the construction of a system of water works for the Town of Grimsby.

The works will be subdivided as follows:

- Contract A—Labor on Pipelaying.
- " B—Pump House.
- " C—Masonry Reservoir.
- " D—Cast Iron Pipes and Specials.
- " E—Fire Hydrants and Valves.
- " F—Pumping Machinery.

Plans and specifications may be seen at the office, Town Hall, Grimsby, or at the office of the Chief Engineer, Toronto.

WILLIAM MITCHELL, Esq., Mayor, Grimsby, Ont.  
JAMES BRODIE, Esq., Village Clerk, Grimsby, Ont.  
WILLIS CHIPMAN, C.E., 103 Bay street, Toronto, Ont.

P. G. A. Mousseau, plumber, Hawkesbury, Ont., is announced to have assigned to A. Hagar.

## VILLAGE OF CREEMORE

Province of Ontario

## WATER WORKS CONSTRUCTION

Sealed tenders, addressed to the undersigned and marked "Tenders for Water Works," will be received up to 8 p.m. on MONDAY, SEPTEMBER 13TH, 1904, for furnishing all materials for and laying about

15,000 lineal feet of Cast Iron Water Mains

also all necessary special castings, valves and hydrants.

Plans and specifications may be seen and Tender Forms obtained at Creemore or at the head office of the Chief Engineer, John Galt, C.E. and M.E., Toronto. A certified bank cheque for \$1,000 must accompany each tender.

A. H. WATSON, Clerk.

## CONTRACTS OPEN.

AVONDALE, N. S.—A Government wharf is shortly to be built here.

SOMERSET, MAN.—The Village Council have decided to erect a new town hall.

COWANSVILLE, QUE.—Local parties are talking of building a condensed milk factory here.

SANDWICH, ONT.—Two sites are under consideration for the new post-office building.

RIDGETOWN, ONT.—David Simpson is soliciting stock for the establishment of carriage works.

GALETTA, ONT.—A. H. Box, of Carleton Place, has purchased property here on which he will build a store.

WIARTON, ONT.—The Thomson Lumber Co., of Goderich, are considering the building of a large saw mill here.

NEW DENVER, B. C.—The Denver Waterworks Co. has been organized here, to construct a waterworks system.

NORTH BAY, ONT.—The Town purposes spending \$35,000 on the waterworks system. The engineer is L. O. Clarke.

LUNENBURG, N. S.—Bids will be received by William Duff, Municipal Clerk, up to September 27th, for a loan of \$22,000.

CHESTER, ONT.—The congregation of the Barnabas church intends erecting early next year a larger building on a lot on Broadview ave.

LINDSAY, ONT.—J. R. McNeillie, County Clerk, will receive bids up to September 27th for purchase of \$40,000 4 per cent debentures.

BRANDON, MAN.—E. L. Christie may build a new residence next spring.

BRIDGEBURG, ONT.—It is said that Dr. Mencks will build a brick residence on Jarvis street.

WOLSELEY, N.W.T.—It is stated that the Baptist congregation will build a stone church next spring.

MAGOG, QUE.—The Dominion Cotton Mills Co. intend building a reservoir and laying pipes to their works.

STRATFORD, ONT.—T. J. Hepburn has prepared plans and taken tenders for a residence for the janitor of the General hospital.

ARNPRIOR, ONT.—The Diamond Park Mineral Water Co. have acquired a site for the new bottling works which they purpose building in this town.

FREDERICTON, N. B.—The Department of Public Works will receive tenders up to September 19th for rebuilding Ree's bridge, Sunbury county.

ORILLIA, ONT.—R. H. Jupp is this week taking tenders for erection of three concrete abutments and filling for bridge to be erected over the Severn river.

BRANTFORD, ONT.—City Engineer Jones has submitted a plan to the City Council for the better drainage of the city, involving a cost of \$47,690.

HALIFAX, N. S.—The City Works Committee are asking for competitive plans for a fire station on Bedford Row, in the business district, to cost about \$10,000.

BRAMPTON, ONT.—The Copeland-Chatterton Co., of Toronto, are expected to commence work within a month on their new factory to be built in this town.

PORT MOODY, B. C.—The Canadian Pacific Lumber Co. have commenced the reconstruction of their saw mill and are in the market for equipment.

CARLETON PLACE, ONT.—The Canadian Coopers Manufacturing Co. have made a proposition to the Town Council to establish a cooperage factory here.

NEW HAMBURG, ONT.—A by-law providing for the issue of \$7,000 of debentures for building an addition to the public school was carried here on August 20th.

LONGUEUIL, QUE.—The Department of Public Works at Ottawa are asking for tenders up to 16th inst. for erection of a public building here. Plans on application to the Postmaster.

HENSALL, ONT.—On September 19 a vote of the electors will be taken on a proposal to loan \$5,000 to William Kelebon, of Kingston, to enable him to start engine works and a repair shop here.

LEAMINGTON, ONT.—Isaac Lawrence has purchased a lot on corner of Clark and Wellington streets on which he will build a residence.—Harry Leudon will erect a residence on Ene street south.

ST. CATHARINES, ONT.—The Hamilton, Grimsby & Beamsville Railway Co. have submitted a proposition to the City Council to pay one-third of the cost of a high level bridge over the old canal.

NIAGARA FALLS, ONT.—T. E. Emery has commenced the erection of a block at the corner of Huron street and the market square, 2 stories, concrete construction.

FORT WILLIAM, ONT.—Improvements costing \$20,000 will be made this fall to the plant of the Imperial Oil Company.—The Empire Elevator Co. purpose building a number of dwelling houses for workmen.

QUEBEC, QUE.—Sir Charles Ross has made application to the Dominion Government for more land on the Cove

Fields for the purpose of extending his rifle factory, plans for which are now in course of preparation.

REGINA, N. W. T.—The Canadian Northern Railway Company have filed plans for the new line from Hartney to this place, a distance of 198 miles.—The Catholic congregation have had plans prepared for a new church, to cost about \$20,000.

ARCOLA, N. W. T.—James J. Muriison, secretary-treasurer of the town, will receive bids up to October 1st for purchase of \$12,000 of debentures.—The Farmers' Elevator Co. has been incorporated and will start building operations at once.

NEW WESTMINSTER, B. C.—A plan has been proposed to erect a building to serve as a resting place for Indians. It is thought the Government will undertake the work.—Plans are being formulated for the construction of an electric railway between Agassiz and Lake Harrison.

NEPEAWA, MAN.—A deputation representing the Town Council and Board of Trade recently interviewed the Manitoba Government on behalf of a new postal and customs building at this place. The C. P. R. were also asked to build a new station and round house here.

KINGSTON, ONT.—Two business men have made an offer to purchase the British American and Frontenac hotels, with the object of building one large hotel on the property.—Hon. E. J. Davis intends building a large tannery here, although the main building may not be commenced until next spring.

GLACE BAY, N. S.—The general warehouse of the Dominion Coal Co. will, it is said, be done away with and in its place will be erected several warehouses for each colliery. The company have had surveys made for a railroad to tap the Sydney and Louisburg Railway a distance below Homeville Station.

MONTREAL, QUE.—The following building permits were granted last week: Canadian Brewers, Limited, three-storey cold storage building, St. Dominique street, cost \$8,000; A. Vallie, two 2-storey buildings, Gauthier street, cost \$6,000; Mr. Foster, store and residence, corner Laval and Pine ave., cost \$8,000; V. Poissant, two 3-storey buildings, Delormier ave., cost \$6,000.

DORCHESTER, ONT.—W. B. Lane, Township Clerk, invites tenders up to September 10th for furnishing material and erecting a wooden superstructure for Centre Road bridge over the Thames river, in Township of North Dorchester. Plans at the County Engineer's office, London.

PEMBROKE, ONT.—The bids received for purchase of \$15,000 County debentures were not considered satisfactory, and new tenders will be invited.—J. L. Morris, C.E., of this place, has recommended the construction of a new bridge costing \$12,000 over the Madawaska river at Clay Bank. McNab Township will undertake the work.

TORONTO JUNCTION, ONT.—Several architects have submitted plans for the proposed public building to be built on Keele street, and the Council may make a selection this week.—The new barracks for the permanent corps to be built here in place of Stanley Barracks, will be of brick and will provide accommodation for 400 men. It is expected the contract will be awarded so that work can be commenced early next spring.

HAMILTON, ONT.—It is expected that a gas franchise will be given to the Ontario Pipe Line Co.—The plans of the Government for harbor improvements include a 150 foot slip at the foot of Catherine street and a breakwater 150 feet from

the shore eastward to a point opposite Wellington street.—Mr. Bowles, commercial traveller, has purchased 40 feet of property on George street, between Queen and Bay streets, on which he will build a residence.

LONDON, ONT.—The Grand Trunk Railway have decided to build the proposed round house on the Hunt property on Rectory street.—Matthews & Murray, architects, have invited tenders for a new warehouse for George W. Armstrong, 26 x 50 feet, 4 stories.—A. O. Graydon, City Engineer, is taking tenders up to 5 p. m. of 9th inst. for construction of a tile sewer on Maitland street.—The City Council have decided to engage an expert to prepare plans for proposed breakwater for West London.—E. Leonard & Sons contemplate extending their works.

VANCOUVER, B. C.—Superintendent of Schools Argue has called the attention of the Trustee Board to the necessity of increased school accommodation.—Dr. J. W. Good, of Winnipeg, has purchased two 25-foot lots on Granville street, adjoining the Van Horne block.—The plans are complete for building the new septic tanks for which money was provided by a recent by-law.—Dalton & Eveleigh, architects, have taken tenders for excavation and concrete basement for a building on Georgia street for Henry Bell-Invig.

ST. JOHN, N. B.—L. G. Crosby has applied to the Council for a site on which to build a warehouse.—Two tenders were received by the City Council for building a warehouse on Pettingill wharf. They were considered too high and the work will likely be done by day labor under the direction of the City Engineer.—The Exhibition Association, with a view to the holding of a Dominion exhibition here next year, will probably build a half-mile race track.—The Board of Works have decided to call for tenders at once for the construction of a warehouse on the McLeod wharf.

CHATHAM, ONT.—A. M. Piper, architect, has just taken tenders for the erection of a brick and stone residence on Wellington street for W. M. Drader.—J. L. Wilson & Son, architects, are preparing plans for two brick residences on Baldoon street for Calixte Bechard, for which tenders will be invited this week. They are also preparing plans for a brick veneer residence for Mrs. Campbell, of Tibury, and have in hand the proposed addition and alterations to the Hotel Sanita on William street.—E. Blake Arnold has just completed plans for a \$4,000 residence for John Smith, River Road, Raleigh.—A meeting of the shareholders of the Chatham Mineral Water Co. will be held this week to consider a by-law for the borrowing of \$15,000 to complete the proposed addition.

VICTORIA, B. C.—Tenders close September 12 for supplying the city with 12,000 feet of cast-iron pipe, to be delivered by May 1st, 1905. Particulars from W. W. Northcott, purchasing agent.—Alderman Kinsman and Capt. Cabin, whose residences were destroyed recently, will rebuild at once.—S. Maclure, architect, has taken tenders for the erection of a frame residence on Esquimalt road.—F. M. Rattenbury, architect, is now busy on plans for the superstructure of the C.P.R. hotel and bids will be invited at the earliest possible date.—Judge Prather, of Spokane, Wash., J. McIntosh, of Grand Forks, and F. W. Teetzel, of Nelson, representing a syndicate, are taking steps to build a railway into the Flathead River coal lands.—A. Maxwell Muir, architect, has prepared plans for another bungalow to be built on Princess ave. by Ald. Kinsman.

WINNIPEG, MAN.—H. W. Greene, architect, has just taken tenders for the

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A. G. C. DINWICK, Managing Director  
A. M. WICKERS, Chief Engineer

erection of a brick and stone Baptist church at Dauphin, Man.—F. R. Evans, architect, will let contracts this week for a two-room frame school on stone foundation in West Kildonan.—Tenders have just been taken by J. H. G. Russell, architect, for erection of a brick and stone business block on Bunnatyne street for the Franklin Press.—Joseph Greenfield, architect, is this week taking tenders for erection of two dwelling houses on Hargrave street for C.O. Kelly.—Herbert B. Rugh, architect, is working on preliminary plans for a \$50,000 apartment building, also for a residence for Edward H. Heath, of this city, first storey of red sand mold brick, second storey plaster and half timber work. Plans of the latter will be ready very shortly.—S. F. & W.A. Peters, architects, desire tenders by 15th inst. for erection of a town hall for the municipality of Strathclair, Man.—Paul M. Clemens architect, desires tenders by 8th inst. for removing and remodelling the frame building at corner of Sirgent and Young streets for G. P. Thordarson.—Tenders will be received by R. Rogers, Minister of Public Works, up to September 15th, for the erection of an agricultural college building in this city. Plans at the office of the Provincial Architect.

OTTAWA, ONT.—Besserer's Grove will likely be bought by the Anti-Tuberculosis Society as a site for the proposed sanitarium, in which case a wharf will be built.—It is rumored that the Ottawa Electric Company will build a steamer next season to ply from Britannia to Fitzroy Harbor.—The Separate School Board have deferred for six months the proposed building of three schools.—William Kennedy, hydraulic engineer, Montreal, has submitted to Council a report suggesting means of overcoming the difficulty of obtaining an adequate supply of water in Ottawa the year round. He advises constructing a separate tail race, which might involve the deepening of the present sewer. A large delivery main from the pump house is also recommended.—The following building permits were granted last week: George A. Young, Maple street, brick veneer dwelling, cost \$1,500; F. A. Sharp, Lyon street, brick veneer residence, cost \$1,000; Mrs. M.E. Lowham, College ave., dwelling, cost \$1,000; James E. Wilson, Patterson ave., brick veneer residence, cost \$2,500; C. Hopewell, Lisgar street, residence, cost \$4,500; A.G. Marshall, Ralph street, residence, cost \$1,800.—By-laws have been passed by the city council providing for the issue of \$15,000 of debentures

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for building an addition to the police station, \$25,000 for a fa stock show building, and \$440,680 to redeem outstanding debentures.—It is stated that tenders will be invited shortly for the construction of another 52 feet lift lock for the Trent canal.—F. Gelinas, Secretary Department of Public Works, invites tenders up to 16th inst. for the paving of Wellington street, from Dufferin bridge to Bank street.

TORONTO, ONT.—J. Davis, architect, 77 Adelaide street east, wants tenders from all trades for erection of a 7-room brick and stone residence.—The property owners at the foot of Jarvis street have petitioned for the extension of the sewer; estimated cost, \$5,800.—The City Engineer has recommended that four groynes to protect Fisherman's Island would cost \$2,000. He recommends the construction of several water mains and the following local improvements: Asphalt pavement, Montrose ave., \$4,171. Concrete sidewalks, Robert street, Harbord to Bloor, \$1,507; Givens street, College to Bloor, \$1,045; Gladstone Place, Gladstone ave. to a point 180 feet east, \$320; Foxley street, Dundas street to Dovercourt road, \$1,117; Sherbourne street, Duke to Duchess street, \$536; Golden ave., Dundas to a point 660 feet north, \$944. Sewers, Atkins ave., cost \$280; Aberdeen ave, \$930; Don Esplanade, \$460; Dundonald street, \$2,045; Arthur street, \$555.—A sub-committee of the Fire and Light Company which recently made enquiries in the United States regarding a special high pressure water system for fire protection, have recommended that a light draft fireboat, to cost \$50,000, and three 750-gallon steam fire engines be purchased, also that auxiliary high pressure water mains

be laid on the following streets, to be operated by a separate stationary pumping plant: Simcoe street, from Station street to Adelaide street; York street, from Esplanade to King street; Bay street, from water front to Queen street; Yonge street, from water front to Wilton avenue; Church street, from water front to Queen street; Jarvis street, from water front to Queen street; with the cross sections on the following streets: Front street, from Simcoe to Jarvis street; Wellington street, from Simcoe to Church street; King street, from Simcoe to Jarvis street.—Plans of a brick chimney, 75 feet high, with concrete foundation, to be constructed in connection with the waterworks system at East Toronto may be seen at the office of John Galt, C. E. and M. E., National Trust Building.—East & Co. have had plans prepared for a large addition to their umbrellas and trunk factory.—Building permits have been granted as follows: Herbert Johnson, pair dwellings, 104-6 Smith street, cost \$3,600; Eureka Refrigerator Co., addition to factory rear 54 Noble street, \$3,000; John Duncan, dwelling, near Dundas street, on Sorauren avenue, \$13,000; J.W. Redfern, dwelling, 418 Brunswick avenue, \$3,500; May McWaters, pair brick dwellings, near Dundas street, on Lakeview avenue, \$1,600; Mrs. W. H. Knox, dwelling, No. 59 Walmer road, \$1,800; Bredin Bread Co., stable, near Avenue road, on Pears street, \$3,000; Royal Can. Bicycle Co., club-house, near Broadview avenue, on Kintyre street, \$7,000; Clarkson Jones, storage building, rear 31 to 35 Front street, \$15,000; C. R. S. Dinnick, three dwellings, near Dupont street, on Bernard avenue, \$9,000; G. J. Timson, dwelling, near Arthur street, on Beatrice,

\$2,000; E. F. Ely, residence, 26 Salem avenue, \$1,000; Keith & Fitzsimmons, addition to warehouse, 101 King street west, \$3,000; Vokes Hardware Co., storehouse, southeast corner Jarvis street and Esplanade, \$1,500; F.W. Appleton, pair dwellings, 13 and 15 Montrose avenue, \$4,000; Randolph Macdonald, dwelling, near St. Anne road, on Rusholme road, \$4,000; R. Saunders, three pair dwellings, near Northumberland street, on Delaware avenue, \$10,000; C. E. Storey, dwelling, near Barton avenue, on Albany avenue, \$3,500; Elizabeth Purland, pair dwellings, 86 and 88 Beverley street, \$5,000; G. T. Gorrie, dwelling, corner Markham and Herrick streets, \$4,000; George W. Britnell, two dwellings, near Shaftesbury avenue, on Torona avenue, \$2,750; E. Taylor, pair dwellings, near Hepbourne street, on Delaware avenue; Thomas Butler, pair dwellings, near Harbord street, on Manning avenue, \$4,000; Albert Stemmann, dwelling, No. 553 Euclid avenue, \$6,000; Fred Tugram, two dwellings, near Union Street, on Lansdowne avenue, \$3,500.—Langley & Langley, architects, Mail building, want tenders by 9th inst. for erection of a residence in Rosedale.—H. B. Johnston has made application, on behalf of some clients, for a permit to build a factory on River street, near Wilton ave., for treating sheep-skins.

#### CONTRACTS AWARDED.

KINGSVILLE, ONT.—Residence for G. Bruner: McKay & Mercer, contractors.

OTTAWA, ONT.—The Finance Committee of the City Council has recommended that the Council accept the offer of E. H. Gay & Co., of Boston, to

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purchase \$668,000 of debentures, at 99 cents on the dollar.

**FERNIE, B.C.**—Block for Johnston & Falconer: Carpenter work, Digby & Walde.

**DELHI, ONT.**—Cemeet walks: E. Lyness, this place, contractor, 9½ cents per square foot.

**REGINA, N. W. T.**—New C. P. R. round house: J. J. Nickson, of Vancouver, B.C., contractor.

**COLLINGWOOD, ONT.**—Machine shop for Collingwood Shipbuilding & Engineering Co.: Brick work, Harry Stovel.

**TORONTO JUNCTION, ONT.**—The Council have decided to purchase a 12-ton road roller from the Waterous Co., of Brantford.

**DUNGANNON, ONT.**—Construction of cement sidewalks: John Kilpatrick and E. Johnston, both of Ashfield, successful tenderers.

**PETERBORO, ONT.**—Plumbing, heating and lighting of new Y. M. C. A. building: MacPherson & McGregor, successful tenderers.

**CARLETON PLACE, ONT.**—Dam at Poonahmaitee: John O'Leary, of Ottawa, successful tenderer. It will be of stone and cement, cost \$9,000.

**BRANDON, MAN.**—New C. P. R. round house: James McDiarmid, of Winnipeg, contractor. —New hotel for Mr. Shore: John Forbes, contractor.

**CAMPBELLTON, N.B.**—Customs house and post office: J. & D. A. Harquail, this place, contractors; 38 x 45 feet, brick with stone trimmings.

**VICTORIA, B.C.**—Supply of 1,000 barrels of Portland cement for the city: Robert Ward & Co., successful tenderers. —Cottage on Princess ave. for Aid. Kinsman: J. J. Gillis, contractor.

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Mem. Soc. C. E. West Penn. '87.

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**PARRY SOUND, ONT.**—Moffatt Bros, this town, have secured a sub-contract for constructing four miles of the James Bay Railway near Barnesdale.

**ST. JOHN, N. B.**—Residence at Mount Pleasant for E. J. Smith: Architect, W. M. Mitchell; masonry, William Hatfield; other trades, J. A. Johnston.

**CHATHAM, ONT.**—Two tenders were received for construction of pavement on Murray street, as follows: Blight & Fielder, \$2.43 per yard for paving and 49 cents per foot for curb and gutter. Thomas Chick & Co., \$2.44 and 75 cents respectively.

**EAST TORONTO, ONT.**—The contract for construction of waterworks system has been awarded to McQuillan & Co., of 1459 Queen street west, the total cost being \$19,000. John Galt, C.E. & M.E., is engineer for the work.

**KINGSTON, ONT.**—H. P. Smith, architect, has awarded contracts as follows for new laundry and dormitory building for the Sisters of the House of Providence: Masonry, W. McCartney; carpenter and joiner work, R. N. F. McFarlane; heating, plumbing and tin-smithing, Simmons Bros.; painting and glazing, W. J. Savage.

**HAMILTON, ONT.**—The Sewerage Committee have awarded to J. J. Armstrong the contract for building sewers on Minto avenue, from Barton street to Huron street; at 59 cents a foot, and on Hunter street west at 54 cents a foot. The city will build the sewers on Mountain ave., between Aberdeen ave. and South street, at 50 cents a foot, and on Hunter street east, between Richmond and Paulette street, at 65 cents a foot.

**FIRES.**

Fraser, Hamilton & Cox's planing mill, corner of Catherine and Concession streets, Ottawa, Ont., damaged to extent of \$3,000.—Frederick Karn's hardware store, Woodstock, Ont., damaged to extent of \$6,000; insured.—Blacksmith shop owned by William Templeton, and buildings owned by George Christie and W. J. Scaffe & Son, all at Emerson, Man., totally destroyed; loss \$10,000.—Flour mill and elevator of Knittel & Co., Boissevain, Man.; loss \$30,000.—Compounding department of the Canadian General Electric Company, Peterboro, Ont., damaged to extent of \$20,000.

**A COMMON RESULT IN ESTIMATING.**

Building has become so highly developed and specialized that the cost of omitting work has become an important item in making estimates. Not long since a factory obtained a contract for furnishing the outer and inner wood finish of a chapel, says a writer in a recent issue of the Western Builder. Specifications for the outer work required that it be without "surfacing" or planing—as the saw left it. The office man who "billed" the work to

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are now being paved with the Bitulithic pavement. Petitions have been presented from Woodlawn Avenue, Bleecker, Gerrard and other streets for this pavement. Investigate it before deciding on other kinds. Estimates furnished by

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the factory took pains to mark all over the lists and drawings that the stuff was to be planed on the back side only—this to bring it to a proper thickness—and that all exposed surfaces were to be left as sawn. In due time, chancing to be in the warehouse, he saw stacked up ready for shipment all this outer finish fully dressed and planed, and of course it all had to be thrown away. It is safe to say that the next time the managers of the factory estimate on work in which the surfacing is to be omitted they will add something to cover the chance of having to do the work over again.

**GERMAN CEMENT INDUSTRY.**

The over-production of cement in Germany has resulted in demoralizing the market. Cement having been offered as low as 60 cents per barrel, the cement makers of Germany are gradually agreeing on the "sales agency" plan, which has proved so successful in the potash salts industry. Fourteen cement works in Rhenish-Westphalia have already announced that they are in an incorporated syndicate with limited liability which appraises membership according to productive capacity by allotting one share to each thousand casks of annual output. For each share of working capital the members deposit in cash \$6.25, and as security \$12.50 in bills. A member may sell 40 per cent. of his quota, and should his orders call for a larger quantity, the syndicate is privileged to substitute the brands of other members whose business may not be equally prosperous. The selling price will be fixed annually by the syndicate, and any surplus from sales will be divided among the members in the ratio of their shareholdings. As yet no allotment of exports has been made, but it is obligatory for members in the syndicate to pay a tax of \$1.25 for every 10 tons exported. What effect this tax will have on export prices may be conjectured. American consumers imported from Germany last year 245,966 long tons of cement, which was equivalent to 50.3 per cent. of the total foreign receipts.—Cement and Engineering News.

Ten miles of granolithic sidewalks have been laid in Ottawa this summer. The cost was practically the same as last year, about 16 cents per square foot.

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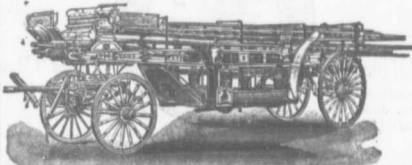
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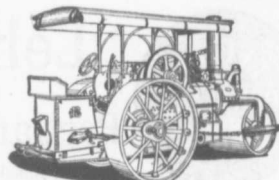


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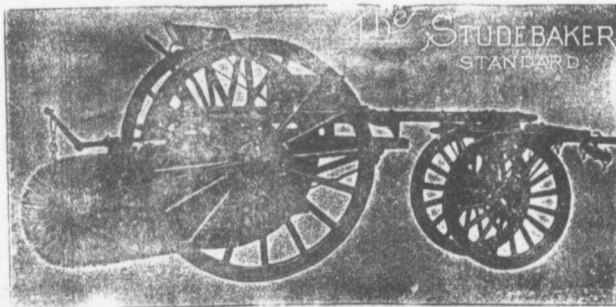
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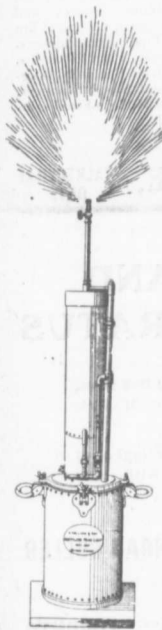
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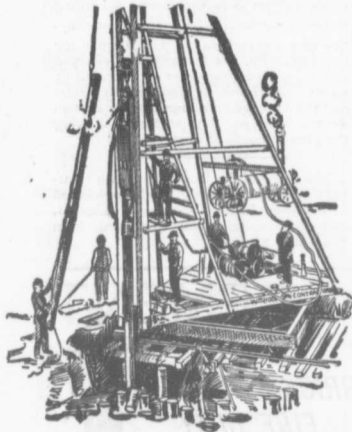
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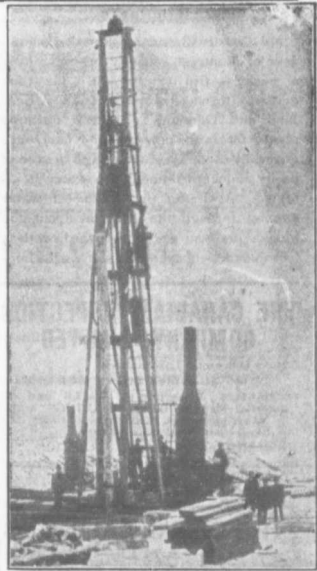
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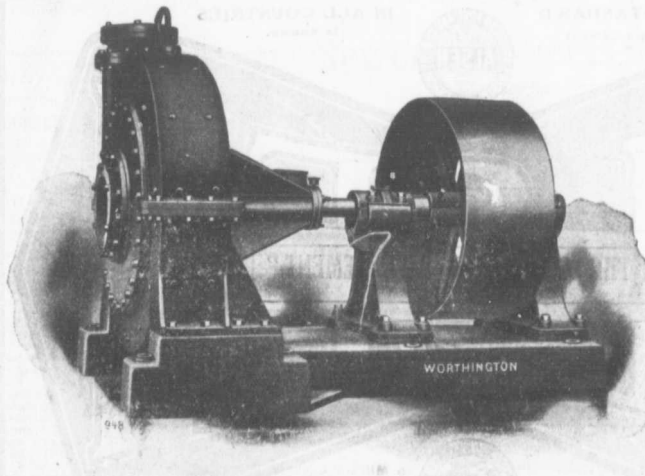
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### WATER FILTRATION PLANTS IN EUROPE.

Mr. Charles Brandeis, consulting engineer of Montreal, recently returned from a business trip to Europe. He took occasion to make a special study in England and Germany of water filtration plants for large cities. Sand filters are generally used, by which a high degree of purity and sterilization of the water is attained. At Berlin the volume of water passing through the sand is about 200 gallons per hour per square yard, with 4 feet thickness of sand and stone. In Lon-

don the volume is about 280 gallons per hour per square yard, with thickness of sand and stone 5 feet. This entails the necessity of very large filtering area at a cost of about \$17 per square yard. Sterilization of water on a large scale is also being done electrically by means of ozone. Water containing 39,000 germs and more of bacillæ per cubic centimetre is sterilized to such an extent that practically no germs are left. The ozone does not affect the water in any way, the latter remaining odorless and tasteless as before. This system has been installed in the towns of Paderborn and Wiesbaden, the former having a capacity of 11,000 to 13,000 gallons per hour, the latter a capacity of 55,000 gallons per hour. The cost of sterilizing with 12 working hours daily is estimated with the cost of coal at \$4 per ton as follows: With a plant capacity of 45,000 gallons per hour, about 3½ cents per 1,000 gallons; with a plant capacity of 450,000 gallons per hour about 1 cent per

1,000 gallons. This includes 4 per cent. for interest on capital and 3 per cent. for sinking-fund. With water power the cost would be less. Should filtration be desirable to remove the dirt, then since the germs have been killed with ozone, this may be done at the rate of 1,100 gallons per hour per square yard, which is about 5 times the speed allowed where the sand filters have to retain the germs also. Where ground is expensive this is, of course, a very important item. According to Berlin statistics, the average consumption of water per head of population is 100 litres per day, the water being charged according to consumption as indicated by meter. At Hamburg there are no meters and the average consumption runs as high as 200 litres per day per head, showing the great amount of waste.

The name of the Dominion Steam Heating Company, Winnipeg, has been changed to the John Plaxton Company, Limited, and the capital stock increased from \$24,000 to \$50,000.

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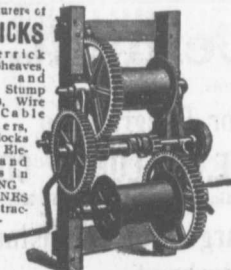
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### MUNICIPAL ENTERPRISES IN CANADA.

In the return of reproductive undertakings operated by municipalities in Ontario, it is stated, in an official report, that out of 14 cities, 106 towns, and 134 villages, to which forms of inquiry were sent, returns had been received by the 18th of November, 1903, from 12 cities, 91 towns, and 118 villages. Of these, 11 cities, 57 towns, and 21 villages had been carrying on reproductive undertakings, and a number of the others reported that they were about to acquire waterworks or electric-lighting plants. There are 79 municipalities in Ontario which own their waterworks, 35 which have their own electric-lighting plant, 4 which supply electricity, 2 supply gas, 2 have municipal cemeteries, 1 possesses a dock, and one operates its own street railway. There was an average annual loss on the municipal street railway and electric-lighting system combined at Port Arthur of \$1,370.95, for the period of four years ended December 31, 1902. Profits are shown in 44 cases, and losses in 48. In one case there was no profit or loss, and in 23 no reports were made. The municipal gas plant at Brockville, which was established in 1901, realized an annual profit of \$4,000 on an invested capital of \$85,000, but the natural gas sold by the corporation at Kingsville showed a loss of \$243.38 on an invested capital of \$27,000. The business of supplying electricity to consumers by municipalities has been begun too recently in most cases to admit of statistics of profit and loss. In Bracebridge there was an average annual profit of \$620.28 on electric lighting and electric supply combined, which were first provided by the town in 1895; but at Hespeler, where the system was established in 1900, there was a loss of \$3,084.60 on an invested capital of \$15,483.48.

### SEWAGE PURIFIED BY GROWING ORGANISMS.

The biological treatment of sewage has been studied for a number of years at Hamburg by Dunbar. The various processes of this kind depend upon the removal from solution of the putrefactive matters through absorption by porous material, and upon subsequent oxidation by micro-organisms. Without the activity of the organisms, absorption soon ceases. The absorption, which increases with the fineness of the material and usually attains the maximum effect in four to six hours, proves to be a purely surface action independent of chemical attraction, and so powerful is it that sterile clinkers in contact beds withdraw from the liquid not only coloring matters but also the complex nitrogenous substances found in sewage. An interesting example of absorption is furnished by Dr. Dunbar's percolating filter, in which one-half of the purification takes place in the six-inch layer of fine material on the surface.

For laying dust on roads the Paris Anti-Dust League is reported to have used successfully a 5 to 10 per cent. aqueous solution of Westrumite, which is tar saponified by ammonia so as to be soluble in water.

Cement sidewalks have been injured in many places by the roots of trees, which upheave the slabs. In Norwood, Ohio, where there has been considerable trouble of this kind, especially with soft maples and Carolina poplars, an ordinance has been passed forbidding the planting of trees between the sidewalk and the curb line. This will make it necessary to plant all trees inside the property line.

A commission appointed to consider an addition to the water supply of New York has reported in favor of filtering the whole of the present supply at the earliest date possible. Any further supply should, they recommend, be a high-service one, to be distributed from a reservoir situated to the north of the city, where there is a site available at 295 ft. above tide level. They estimate that in another 25 years the

population to be served by the New York supplies will number seven millions, and that the amount needed will be 120 imperial gallons per head per day. The present supply to New York amounts to 96 imperial gallons per head per day. To supply the quantity estimated in their forecast, the present sources of supply should be augmented by 400 million imperial gallons daily. In support of their high estimate of the quantity required per head, the commission state that their observations on water waste in New York show that apparently not more than 15 per cent. of the present supply is now actually wasted.

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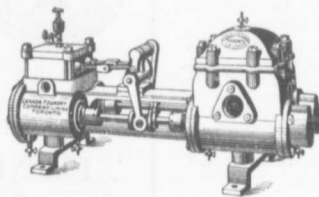
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