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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. 11.

SEPTEMBER 26, 1900

No. 34.

THE CANADIAN CONTRACT RECORD,

PUBLISHED EVERY WEDNESDAY

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

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PORT HOPE WATERWORKS

Sealed tenders, addressed to R. Gray, Esq., will be received, by registered letter only, up to 6 o'clock p.m. on

Thursday, the 4th Day of October,

instant, for each or the whole of the following works, viz:

For supplying and fixing in position upon foundations to be built by the Water Commissioners

Contract No. 1—One Compound Duplex Pumping Engine, Capacity 1,000 Imperial Gallons per minute, together with all Steam and Exhaust Pipes, from Boilers to Pump, to Condenser and to Atmosphere, with all necessary Valves, Suction Pipe, Etc., as per plan and specifications.

Contract No. 2—One Steam Boiler 14 feet long by 66 inches diameter, as per plan and specifications.

Contract No. 3—One Steel Water Tower, Capacity 200,000 Imperial Gallons, 25 feet diameter by 65 feet high, as per plan and specifications.

Contract No. 4—To Build Stone Foundations, as per plan and specifications for Water Tower and Pump, and Setting up Boiler in Brick Work.

Plans and specifications can be seen and forms of tender procured at the office of R. Gray, Esq., Port Hope, Ont., and R. E. Speakman, C.E., Canada Life Building, Toronto, from whom any further information may be obtained.

N.B.—A marked and accepted bank cheque for 5 per cent. of the amount of contract must accompany each tender, or it may be ruled out as informal. The Water Commissioners do not bind themselves to accept the lowest or any tender.

Pump manufacturers will be allowed to submit their own special designs, with full detail specifications.

R. GRAY,

Secretary to Water Commissioners.

Port Hope, Ont.

R. E. SPEAKMAN, C.E.,
Consulting Engineer
Canada Life Building, Toronto
Sept. 20, 1900.

DEPARTMENT OF RAILWAYS AND CANALS

Lachine Canal

NOTICE TO CONTRACTORS

Sealed Tenders, addressed to the undersigned, and endorsed "Tender for New Lock," will be received at this office until 10 o'clock on TUESDAY, THE 22ND OCTOBER, 1900.

Plans and specifications can be seen on and after the 20th of September, 1900, at the office of the Chief Engineer of Railways and Canals and at the office of the Superintendent Engineer of the Quebec Canal, 1709 Notre Dame Street, Montreal, where forms of tender can be obtained.

In the case of firms there must be attached to the tender the actual signatures of the full name, the nature of the occupation and residence of each member of the same, and, further, an accepted bank cheque for the sum of \$45,000 must accompany the tender. This accepted bank cheque must be endorsed over to the Minister of Railways and Canals, and will be forfeited if the parties tendering decline entering into contract for the work at the rates and on the terms stated in the offer submitted.

The accepted bank cheque thus sent in will be returned to the respective parties whose tenders are not accepted.

The Department does not bind itself to accept the lowest or any tender.

By order,

L. K. JONES,

Secretary.

Department of Railways & Canals,

Ottawa, 25th September, 1900.

Newspapers inserting this advertisement without authority from the Department will not be paid for it.



Department of Railways & Canals, Canada

RAPIDE PLAT CANAL

NOTICE TO CONTRACTORS.

Sealed tenders, addressed to the undersigned, and endorsed "Tender for Improvements at Upper Entrance of Rapide Plat Canal," will be received at this office until 11 o'clock on SATURDAY, THE 17TH DAY OF SEPTEMBER, 1900, for the works connected with the Widening, Straightening and Deepening of the Upper Entrance of the Rapide Plat Canal.

Plans and specifications of the work can be seen on and after the 14th day of September, 1900, at the office of the Chief Engineer of the Department of Railways and Canals, Ottawa, and at the Engineer's Office at Cornwall. Printed forms of tender can also be obtained at the places mentioned.

In the case of firms there must be attached to the tender the actual signatures of the full name, the nature of the occupation and residence of each member of the same, and, further, an accepted bank cheque for the sum of \$7,500 must accompany the tender. This accepted bank cheque must be endorsed over to the Minister of Railways and Canals, and will be forfeited if the parties tendering decline entering into contract for the work at the rates and on the terms stated in the offer submitted.

The accepted bank cheque thus sent in will be returned to the respective parties whose tenders are not accepted.

The Department does not bind itself to accept the lowest or any tender.

Contractors are specially notified that the conditions requiring the works to be wholly completed by the 30th day of November, A.D., 1901, will be rigidly enforced, and all penalties for delay exacted.

By order,

L. K. JONES,

Secretary.

Department of Railways and Canals,

Ottawa, 6th Sept., 1900.

Newspapers inserting this advertisement without authority from the Department will not be paid for it.

TENDERS

Sealed tenders, addressed to the undersigned, will be received up to MONDAY, THE 1ST OCTOBER, at 5 p.m., from the various trades for the erection of an eight-room brick school on Bond Street; also for an addition to St. Ann's School, Bolton Avenue, for the

SEPARATE SCHOOL BOARD, TORONTO

Plans and specifications may be seen at the office of A. W. Holmes, Architect, 170 Spadina Avenue, on and after Monday, the 24th inst.

A cash deposit or marked cheque, payable to the order of the Secretary-Treasurer of the Board, equal to 5% of the amount of tender, together with the names of two responsible sureties, must accompany same. The cheque will be forfeited if the party tendering fails to carry out the contract when called upon to do so. The lowest or any tender not necessarily accepted.

M. WALSH,

Chairman Sites and Building Committee,
Separate School Board, City Hall.



NOTICE TO CONTRACTORS

TENDERS FOR PAVEMENTS AND SIDEWALKS

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, OCTOBER 3RD, 1900, for the following works

CEDAR BLOCK PAVEMENT:

Tecumseh Street, from Queen Street to Walnut Avenue.

Margaretta Street, from Dundas Street to Bloor Street.

MACADAM ROAD:

Hickson Avenue, from St. Clarens Avenue to 294 feet east.

COBBLESTONE PAVEMENT:

Farquhar's Lane, from Front Street to Esplanade.

CONCRETE SIDEWALKS:

Cowan Avenue, west side, from King Street to a point 150 feet south of Queen Street.

Leal Street, north side, from Huron Street to Spadina Avenue.

St. George Street, west side, from Lowther Avenue to Bernard Avenue.

Hathurst Street, east side, from King Street to Adelaide Street.

D'Arvy Street, north side, from McCall Street to Spadina Avenue.

Barbara Street, east side, from Nassau Street to Bloor Street.

Jameston Avenue, east side, from King Street to Queen Street.

Admiral Road, east side, from Lowther Avenue to Bernard Avenue.

Sherbourne Street, east side, from Howard Street to bridge.

Prince Arthur Avenue, south side from Bedford Road to a point 107 feet east of St. George Street.

Prince Arthur Avenue, north side, from Bedford Road to St. George Street.

Admiral Road, west side, from Lowther Avenue to Bernard Avenue.

Plans and specifications may be seen, and forms of tender obtained, at the office of the City Engineer, on and after Thursday, Sept. 20th, 1900.

Contents of envelopes containing tenders must be plainly marked on the outside.

A deposit, in the form of a marked cheque, payable to the order of the City Treasurer, for the sum of 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 signatures of the contractor and his sureties, or they will be ruled out as informal.

Lowest or any tender not necessarily accepted.

E. A. MACDONALD (Mayor),

Chairman of the Board of Control.

City Hall, Toronto, Sep. 20, 1900.

CONTRACTS OPEN.

FENWICK, ONT.—L. S. Haney will build a new residence.

HULL, QUE.—The corporation will offer for sale \$70,000 of debentures.

VICTORIA, B. C.—The Provincial Government will erect a reformatory.

PERTH, ONT.—The construction of a sewerage system is again being considered.

GREENBANK, ONT.—Mr. Wallace, merchant, is preparing to build a residence.

SHERBROOKE, QUE.—Mr. Clement has had new plans prepared for proposed opera house.

BEDFORD, QUE.—The Bedford Manufacturing Co. are about to erect new buildings.

MEDICINE HAT, N. W. T.—The Western Canada Woollen Mills Co. will erect a mill here.

WEST SHEPHERD QUE.—P. Leduc has purchased property on which to build a residence.

MAYFAIR, ONT.—Angus McTaggart wants tenders by 28th inst. for building a church near here.

LINDSAY, ONT.—It is rumored that the G.T.R. have decided to put in a pumping plant here.

EDMONTON, N.W.T.—The erection of a new Presbyterian church has been postponed until next year.

NANAIMO, B. C.—The by-law to raise \$25,000 for waterworks purposes was carried by the ratepayers.

AVLIER, QUE.—The Board of Underwriters have demanded that the town install a fire alarm system.

WINGHAM, ONT.—Local capitalists propose forming a joint stock company to engage in the foundry business.

ST. HENRI, QUE.—A by-law affecting a bonus granted to Tooke Bros. was carried by the ratepayers last week.

ROCK ISLAND, QUE.—The council have decided to build a new steel bridge to replace the old Middle bridge.

WIAKON, ONT.—The landing pier here, for which the government has granted \$4,000, will be built by day labor.

GODERICH, ONT.—W. Megaw is forming a company to take over the Ogilvie mill and make improvements thereto.

SHEET HARBOR, N. S.—It is stated that the Sheet Harbor Lumber Co. is considering the erection of a pulp mill.

WALLACHTON, ONT.—H.E. Johnson, town clerk, wants tenders by October 1st for erection of fire hall and town offices.

ST. MARY'S, ONT.—It is probable that a new bridge will, in the near future, be built over Trout creek at Wellington street.

CORNWALL, ONT.—Voting on a by-law to raise \$1,000 by the issue of debentures, took place yesterday. Result not learned.

ST. ANDREW'S, N. B.—Edward Maxwell, architect, of Montreal, has prepared plans for a Presbyterian manse to be built here.

SYDNEY, C.B.—The hospital to be built by the Dominion Iron & Steel Co. will be two storeys, and fitted with modern appliances.

PORT HOPE, ONT.—The time for receiving tenders for waterworks materials and construction has been extended to October 31st.

WOLFVILLE, N. S.—The Wolfville Electric Light and Heating Co. have purchased water power privileges on the Gaspereau river.

WILSON'S BEACH, N.B.—No tenders were received for construction of break-water at this place, and the work will be done by day labor.

FORT WILLIAM, ONT.—It is said that Arpon, Scott & Finger, of Grand Rapids, Mich., will erect a large saw mill at this place or Fort Arthur.

FREDERICTON, N. B.—F. C. Coffin, C.E., has submitted his report on waterworks and sewerage system. He estimates the cost at \$83,000.

ELMIRA, ONT.—Geo. Rumpel has agreed to erect a two and one-half storey brick factory, providing the corporation will give a bonus of \$5,000.

BERLIN, ONT.—Jackson & Cochrane intend to build a three storey addition to their foundry, although work may not be commenced until next spring.

GLENWILLOW, ONT.—Bids are asked up to October 1st for completion of the Moore drain in township of Metcalf. Particulars from Richard Ward.

PARIS, ONT.—It is understood that the Dominion Government will erect a new post office building in this town, and that work may be commenced this fall.

ST. CATHARINES, ONT.—Tenders for erection of car barns for the Niagara, St. Catharines & Toronto Railway Co., were found too high, and thrown out.

PENETANGUISHENE, ONT.—The by-laws to assist D. J. Shanahan and P. Payette & Co. to extend their works here, has been sanctioned by the ratepayers.

SPRINGHILL, N.S.—The Dominion Government are asking for tenders up to October 3rd, for erection of post office at this place. Plans at office of A. E. Fraser.

WESTVILLE, N. S.—Tenders for erection of station house at this place are invited by the Intercolonial Railway management at Moncton up to October 13th.

GRAND FORKS, B. C.—The survey of the proposed Grand Forks and Kettle River railway has been commenced. T. W. Holland secured the charter for this road.

INGERSOLL, ONT.—Surveyors are now laying out the route of the Tilsonburg, Lake Erie and Pacific railway into this town, and work will be commenced at once.

VANCOUVER, B. C.—The C.F.R. are understood to have taken tenders on the construction of a steel bridge of five spans across the Columbia river, near Robson.

INDIAN LORETTE, QUE.—The Quebec Pulp & Paper Co., of which Geo. S. Wilson is secretary, contemplate building a dam across the outlet of Lake St. Charles.

RENFREW, ONT.—The Renfrew Electric Co. are making arrangements to develop additional water power, erect an addition to power house, and increase their plant.

HAWKESBURY, ONT.—Alex. Cote, electrician for the Riorden Paper Co., is interesting himself in the establishment of an electric light plant for street and commercial lighting.

PETERBORO, ONT.—The various societies in connection with St. Peter's Cathedral propose to form a joint stock company to erect a building suitable for society purposes.

PETROLEA, ONT.—The by-law granting exemption from taxation to the Petrolea Pork Packing Co. was carried on Thursday last. Large buildings will be erected at once.

GOLDEN, B.C.—The Department of Public Works at Ottawa wants tenders by October 6th for supply of poles in construction of telegraph line from this place to Windermere.

DUNDAS, ONT.—Plans have been prepared by the Department of Public Works at Ottawa for addition to drill hall in this town, to cost about \$4,000. Tenders will shortly be invited.

MORRISBURG, ONT.—Tenders for electric light and power plant were opened last week. It is reported that no tenders were received for excavations, stone work, etc., and but two for electrical apparatus.

GREENWOOD, B. C.—It is said to be the intention of the Western Telephone and Telegraph Co. to build lines through the Nelson and Slovan districts, and to connect the Boundary country with the coast and Vancouver.

LONDON, ONT.—Geo. Fox has been granted a permit to build two one and one half storey brick houses on Grosvenor street.—The city council has empowered the sewer committee to construct filtration beds on the sewage farm.

IROQUOIS, ONT.—M. F. Beach has applied to the government for a lease of water power near this place, his purpose being to develop it for electrical purposes and for the operation of an electric railway between this place and Ottawa.

BRANTFORD, ONT.—The G.T.R. will spend several thousand dollars in improvements here, including the raising of the Buffalo and Goderich track, and a double track from the Market street depot to the new point of connection.

PRINCE ALBERT, N. W. T.—Tenders have been taken for building another story to the Prince Albert Hotel.—H. R. Dalton, architect, has prepared plans for new Presbyterian Mission in west end and addition to Sacred Heart church.

COLLINGWOOD, ONT.—Tenders close 27th inst. for installation of steam heating plant in Collegiate Institute. Plans at office of F. D. Hodgson, architect.—The trustees of All Saint's church are considering the question of building a Sunday school room.

WINDSOR, ONT.—Major Rothwell will at once proceed to erect three brick stores, with dwellings above, on the north side of Pitt street, between Goyeau and Ouellette avenue. Rev. W. H. Hartley, this city, wants bids for mason work for brick church, 45x50 ft.

WINNIPEG, MAN.—Excavating is in progress for a brick block to be erected on Main street by Robert Strang.—Tenders are being taken for a large addition to the Ryan block, Main street, for A. F. Banfield, solid brick and stone: Jos. Greenfield is the architect.

KINGSTON, ONT.—The city is making arrangements to take over the electric light and gas plant.—On October 16th the ratepayers will vote on the proposed by-law granting \$50,000 to Queen's University for erection of new arts and science and other buildings.

ROSLAND, B. C.—Proposed bridges over the main Kettle river near Grand Forks, and across the north Fork, will be built this fall.—The C.P.R. contemplate running a tunnel to cut off the switchbacks at the Crow's Nest Pass.—E. A. Rolf will erect a planing mill and dry kiln.

FENELON FALLS, ONT.—W. T. Ashbridge, C.E., of Toronto, has presented a report to the town council on the cost of a waterworks system for fire protection purposes. He recommends a small pumping station to cost \$2,150, and new main on Colborne street, the total cost to be about \$6,000.

REGINA, N. W. T.—The Provincial Government is taking bids up to 29th inst. for erection of bridge over Blindman river, and a bridge over Ghost River.—The Commissioner of Public Works invites tenders up to October 15th for erection of bridges over Sturgeon river, Fulton's creek and Oliver's creek.

DIGBY, N.S.—Plans of the new traffic bridge to be built at the Racquette have arrived.—A. W. Savary wants tenders by December 1st for building wharf at foot Birch street. Plans at office of W. B.

Stewart.—The question of building an electric railway from this place to Yarmouth has again been revived.

BURK'S FALLS, ONT.—A by-law granting a loan of \$20,000 to the Knight Bros. Co. to assist them in enlarging their saw mill and wood-working factory was carried by the ratepayers on the 21st inst.—The Magnetawan River & Railway Co. has been formed, with capital of \$30,000, to build a spur line of road here.

LEAMINGTON, ONT.—Plans are being prepared for new church for congregation of St. John's, to be stone, 70 x 40 feet.—Plans have been completed for the new three story brick hotel to be built by H. F. Dening, of Detroit; estimated cost, \$6,000.—Tenders will be invited by the council for laying gas and water mains to the House of Refuge.

WELLAND, ONT.—The Niagara, St. Catharines & Toronto Railway Co. have been granted an extension of time to May 1, 1901, to complete the Niagara Falls, Wesley Park & Clifton electric railway on Murray street.—Edward Baxter and others have applied to the Stamford township council for a franchise for an electric railway from Chippewa to Falls View.

SARNIA, ONT.—The Sarnia Street Railway Co. are taking tenders for ties, poles and overhead construction in connection with the electrifying of the street railway.—The town will construct a cut-off drain through the Indian Reserve, for which tenders will be invited immediately. It will be necessary to build a bridge across the drain where it crosses the river road.

ANNAPOLIS, N.S.—The International Packing & Industrial Company, of Worcester, Mass., purpose erecting factory buildings near the mouth of the Bear river. There will be four buildings, as follows: Main building, 50x100 feet, two stories with monitor roof; smoke house, 20x50 feet, pitch roof; boiler and fertilizer room, 18x24 feet, flat roof, and a lumber shed and dry room for box stock.

NORTH TORONTO.—W. J. Douglas will receive tenders, on behalf of the corporation, up to 5 p.m. to day, for enlarging the Orange hall on Montgomery ave.—The council has given notice of its intention to construct a six inch water main along Yonge, Balliol and other streets, cost \$6,619, and a tar and plank sidewalk on Merion street, cost \$1,941.—R. E. Speakman, C.E., of Toronto, has reported that a water supply for the town can be obtained from the James property at Eglinton. The necessary reservoir and pumping plant would cost about \$14,000.

ST. THOMAS, ONT.—The corporation wants tenders by Friday, 28th inst., for constructing an 8-inch collar tile sewer on Maple street. Particulars from Jas. A. Bell, city engineer.—Tenders have been invited by N. R. Darrach, architect, for erection of addition to the Amassa-Wood hospital.—Bell & McCubbin, civil engineers, are surveying for the proposed extension of the Tilsonburg, Lake Erie and Pacific railway from Ingersoll to Tilsonburg.—The council intends to construct grading, curbing and macadamizing on Hughes street, cost \$1,127, and on Yarwood street, cost \$1,379.

HAMILTON, ONT.—Mr. Mills, architect, is preparing plans for a summer residence to be erected at Port Carling, Muskoka, for J. C. Woods, of London.—The sewers committee have decided to build a sewer on Herkimer street.—The following permits have been granted: Laking, Paterson & Co., factory, corner Robert and Cathcart streets, cost \$8,000. Thos. Reid, four brick dwellings, corner Market and Hess streets, for Wm. Hughes, cost \$5,000.—The Patterson syndicate have acquired a large tract of coal lands in the Pennsylvania district, and will bring soft coal to this city and

establish large coke ovens. Probably 300 ovens will be built, immediately east of the city.—The Board of Governors of the city hospital have decided to build an outdoor department, to cost \$3,500.

MONTREAL, QUE.—Mr. Harold Kennedy and his brother, Mr. Murray Kennedy, have purchased some property at Murray Bay, where they intend to build.—It is proposed to enlarge the factory of the Eugene Philips Electrical Works.—The superintendent of waterworks has again recommended the purchase of a new electrically operated pump for the high level reservoir.—The Market and Finance Committee again discussed at its last meeting plans for the enlargement of Bonsecours market. At the last session of the Legislature the corporation was granted authority to borrow \$500,000 for this purpose.—Tenders close noon of 27th inst. for construction of sewer on St. Andre and St. Hubert streets.—J. N. Legault invites tenders on behalf of the county council of Vaudreuil, for erection of vault in the court house.—The Montreal Amateur Athletic Association are now considering plans for a new club house, which it is estimated will cost \$100,000.

QUEBEC, QUE.—The city invites tenders up to October 2nd for hydrants required during the next two years. Particulars from J. Gallagher, waterworks engineer.—It is said that 40,000 barrels of Portland cement will be used in the new Quebec bridge over the St. Lawrence.—A company has been formed here, with capital of \$50,000, to manufacture paper boxes.—It is rumored that the Canadian Fire Underwriters' Association will request that improvements be made to the waterworks system of this city.—A meeting of the Quebec and New Brunswick Railway Co. was held in this city last week. Surveys have been made of the eastern and western portions of the road, leaving the intermediate sections to be laid out. It is expected that the company will shortly be in a position to award contracts for building the road.—It is understood that the C.P.R. officials have decided upon the proposed improvements to the Chateau Frontenac. Plans for same will be prepared by Bruce Price, architect, of New York.

OTTAWA, ONT.—The Department of Public Works invite tenders up to October 6th for construction of a landing dock at Point au Pelee Island, Essex county. Plans at office of H. A. Gray, Confederation Bldg., Toronto, at the Custom House, Amherstburg, and at the above department. Tenders are also invited up to October 3rd for erection of post-office at Springhill, N. S.—Following building permits were granted last week: Brick stables, 5 O'Connor street, for M. & S. Sparks, cost \$2,500; brick veneered dwelling, 27 Maple street, for Jos. Kennedy, cost \$1,000; double brick veneered dwelling, 6 Sherwood street, for Wm. Madden, cost \$2,500; solid brick building, 64 Somerset street, for Newel Bate, cost \$8,000; three brick veneered tenements, 7 Dufferin street, for J. J. Carroll, cost \$2,500; John L. Pratt, solid double brick house, Maple street, cost \$4,000.—The Ottawa Dairy Co. has purchased property on Somerset street on which to erect their building, which will cost about \$15,000.—At a meeting of the Ottawa Presbytery, held last week, it was decided to rebuild Erskine church on the site now occupied by the Bank Street Church Mission.—The council is still discussing the question of purchasing another fire engine.—The Department of Railways and Canals invite tenders up to October 18th for construction of one pair of lock gates at the Sault St. Marie canal. Cheque for \$2,000 to accompany tender. Plans at office of chief engineer of railways and canals, this city.—It is reported

that Messrs. H. K. Egan and W. C. Edwards, M. P., have purchased the Table Rock water power from the Hull Lumber Co., and that they purpose developing it and establishing a large pulp mill.—The Salvation Army are looking for a site on which to build a new barracks.—Chas. McNab, county clerk, invites offers up to October 12th for purchase of \$15,000 debentures.

TORONTO, ONT. The Separate School Board invites tenders in this issue for the erection of an eight room brick school on Bond street and an addition to St. Ann's school on Bolton Avenue. They have also in course of erection a four-room school on Edwin avenue.—E. R. Thomas, manager of the E. R. Thomas Motor Co., of Buffalo, was in the city recently looking for a site for a Canadian branch of their business.—The United Electric Co. have made another application to the council for a site on the harbor front on which to build a factory.—The City Engineer has recommended the construction of the following works:—Bain avenue, 12 inch tile sewer from Pape to Carlaw avenue, cost \$1159; Coulmine road, brick pavement from Dundas to Agnes road, cost \$4755; Emsley place, asphalt pavement from St. Joseph street, 131 feet north, cost \$2825; Farley avenue, asphalt pavement, Bathurst to Tecumseh street, cost \$6525; Hayden street, asphalt pavement from Church street 349 feet east, cost \$2950; Lowther avenue, concrete sidewalk north side from Lowther avenue to Walmer road, cost \$910; Oxford street, cement sidewalk on north side from Spadina to Augusta avenue, cost \$1225; Rose avenue, concrete sidewalk west side from St. James avenue to Howard street, cost \$304; St. George street, concrete sidewalk, west side, from Bloor street to Prince Arthur avenue, cost \$460; St. Vincent street, concrete sidewalk, both sides, from Grosvenor to St. Joseph, cost \$4093; Wellington street, asphalt pavement, York to Simcoe street, cost \$10,300; Yonge street, asphalt pavement from Davenport road to Belmont street, cost \$12,350.—Building permits have been granted as follows.—City Dairy Co., three-storey brick dairy building, Spadina avenue, near Orchard, cost \$50,000; A. R. Clarke and Co., three-storey brick factory, Eastern avenue, near Caroline avenue, cost \$25,000; H. M. Death, pair semi-detached brick residences, east side Delaware avenue, near College street, cost \$4,500; Chas. May, residence No. 11 South Drive, Rosedale, cost \$6,000; E. E. Forfar, four two-storey brick clad buildings, Golden avenue, cost \$4,000; The Canadian Express Company, office and shipping room at York and Station streets, cost \$12,000; M. A. Macleod, brick and stone dwelling, 34 Leopold street, cost \$5,000; M. S. Kellow, two-storey brick and stone dwelling, corner Wells street and Albany avenue, cost \$2,500.—A petition has been received by the council for a brick pavement on Piper street.

FIRES.

Workshops of D. K. Shanahan at Penetanguishene, Ont., totally destroyed; loss \$6,000, insurance \$2,000. Robt. Whitelaw's foundry at Woodstock, Ont., damaged to extent of \$30,000, covered by insurance.—Eng'g house and engine in connection with J. B. Smith & Son's sawmill at Callendar, Ont.—Glue factory of Wm. Harris on Danforth Road, Toronto; loss on machinery and building, \$6,000.—Shingle mill of Wm. Thornburn, at Gore Bay, Ont.; loss \$1,500.—Factory of P. & P. Griffin on St. Helen's avenue, Toronto; loss \$20,000.

CONTRACTS AWARDED.

BLENSHEIM, ONT.—Rebuilding public school. Blight & Fielder, contractors.

NEWMARKET, ONT.—Residence for

Isaac Silver : John Warriner, of Keswick contractor.

GODERICH, ONT.—Brick veneer dwelling for Edward Acheson : Buchanan & Sons, contractors.

FREDERICTON, N. B.—Heating new university science building : Mr. Shea, successful tenderer.

ST. CATHARINES, ONT.—Bicycle factory for Nott Cycle & Motor Co. : Newman Bros., contractors.

LISTOWEL, ONT.—The offer of the Bank of Hamilton for purchase of \$10,000 of debentures has been accepted.

LUCKNOW, ONT.—The contract for granolithic sidewalks has been let to the Royal Artificial Paving Co., of Guelph.

VANCOUVER, B. C.—The Vancouver Gas Co. have just let the contract for 400 tons of cast iron pipe to the Jas. Robertson Co.

ST. MARY'S, ONT.—The tender of John Keen for granolithic sidewalks on Widder and Park streets has been accepted by the council.

HAMILTON, ONT.—The Gartshore Thompson Pipe & Foundry Co. have been awarded the contract by the city for 18 and 20 inch valves.

KINGSTON, ONT.—Alterations to store on Wellington street : E. M. Storey, architect ; J. King, carpenter work ; Fee & Litton, masonry ; J. Jamieson, plumbing.

HESPELER, ONT.—The contract for engine and boiler for extension of electric light plant has been let to the Goldie & McCulloch Co., of Galt, and that for electrical apparatus to the Canadian General Electric Co., Toronto.

PARIS, ONT.—\$5,000 school debentures : John Penman, successful tenderer, at par.—The tender of G. A. Stimson & Co., of Toronto, for purchase of \$5,000 House of Refuge debentures, has been accepted ; price \$5,065.50 and accrued interest.

OTTAWA, ONT.—Building for Ottawa Dairy Co. : Mason and brick work, Felix McCullough ; roofing, J. Herbert & Sons ; galvanized iron work, McKinley & Northwood ; steel beams, E. Arnoldi. The building will be brick, cost \$50,000.

SARNIA, ONT.—Residence for Jas. Doherty : Capentering work, George Bruce ; masonry, McDonald & Simpson ; cut stone work, George Paul ; plastering, Robert Corrick ; painting, English & Fitzgerald ; plumbing and tinware, Folland & Co.—Post office building : Geo. A. Proctor, contractor.

ARNPRIOR, ONT.—The town council have accepted the following tenders for waterworks system : John McDougall & Co., Montreal, tank, filters, pumping machinery, boilers, etc., for \$17,283 ; Clark & Connolly, Toronto, trenching, etc., for \$23,502 ; S. R. Rudd, Arnprior, pumping house, for \$3,989.

WINNIPEG, MAN.—Merchant's Bank block, corner Main and Lombard streets : G. W. Murray and Alex. Black, contractors.—The tender of the Bell Telephone Co. for supply of fire alarm boxes has been accepted by the city.—The tender of W. F. Lee has been accepted for 3,500 feet of sewer pipe, at \$1,275.

BUSINESS NOTES.

Leslie & Davidson, contractors, Sydney, N.S.W., have dissolved partnership, Sydney Leslie continuing.

A meeting of the creditors of Tees & Company, office desks, etc., Montreal, has been called for the 28th inst.

Mrs. J. H. Gagnier, has registered proprietress of the business of J. H. Gagnier & Company, Painters, Montreal.

EXPANSION OF METAL UNDER COLD.

One of the most familiar laws of nature is that which dictates an increase of volume with a rise of temperature, and shrinkage with cold. There are exceptions to the rule, however, and these may be more numerous than have been suspected. Water, for instance, shrinks as it cools, until it reaches the temperature of 39 degrees Fahr. It then begins to expand. Ice is lighter than the water in which it floats, partly on this account and partly owing to air-bubbles. The statement is now made that iron and steel exhibit the same reversal of the law that water does. An English engineer who has wintered in Siberia writes to the Engineering Times that during the intense cold of January and February he has seen rails on the railway jammed together by an expansion such as he has been accustomed to suppose was the result of heat alone. According to this authority, a temperature ranging from 12 to 40 degrees below zero Fahr. would not appreciably affect the length of rails, but severer cold than that would be attended with expansion. The man who sends this statement to the Engineering Times declares that others besides himself are familiar with the facts. The Russian engineers have observed the phenomenon, he says, but hesitate to report it to St. Petersburg because of the apparent conflict with accepted ideas. There are regions in Minnesota, North Dakota, Montana and Manitoba where the temperature often falls 40 degrees below zero during a winter of average severity, and sometimes goes 10 or 15 degrees lower. And there are railroads up there, too. Even though the cold is not so intense as that of Siberia, it would seem as if the phenomenon just mentioned should be perceptible there. Perhaps it has developed, but has been overlooked. Now that attention has been directed to the matter, however, the truth or falsity of the story about Siberia can probably be determined in America.—American Architect.

FIRE AND RUST PROOF PAINT.

Various substances have often been proposed as fire-proof coatings for the protection of woods employed for building purposes, but most of them have been abandoned as being either too costly or not sufficiently durable. The following process, invented by Messrs. Vilde & Schambeck, may be useful. The paint consists of twenty parts of finely pulverized glass, twenty parts of finely pulverized porcelain, twenty parts of any sort of stone in powder, ten parts of calcined lime, and thirty parts of water-glass (silicate of soda), such as is usually found in commerce. The solid elements having been powdered as finely as possible and sifted, are moistened, and then immediately mixed with the water-glass. This yields a mass of syrupy consistence that may be employed for painting, either alone or mixed with color. The addition of the lime gives a certain unctuousity to the mass for whitewashing, and its combination with the silicic acid of the

soluble glass serves to bind the other materials together. The proportion of the different elements above mentioned may be changed save that of the water-glass, which must remain constant. These elements may even be replaced one by another ; but it is always well to preserve the lime. Instead of the silicate of soda (soluble glass of soda), soluble glass of potash might be used ; but the former is less expensive. The coating is applied with a brush, as other paints are, as uniformly as possible over the surface to be protected. The first coat hardens immediately, and the second one may be applied six hours or more afterwards. Two coats are sufficient. This paint may likewise be employed as a preservative against rust and used as a coating for iron bridges, etc.

Ouimet, Leandre & Freres, roofers, Montreal, have registered partnership.

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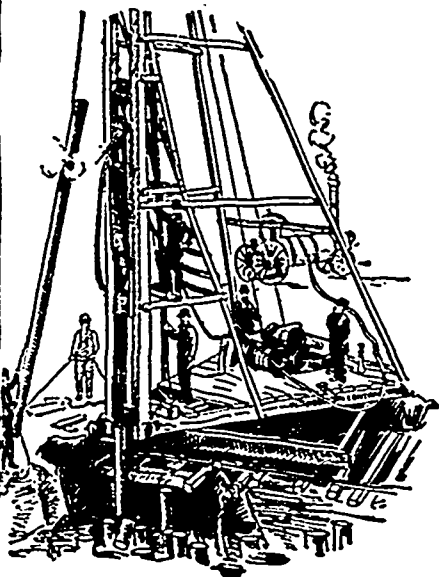
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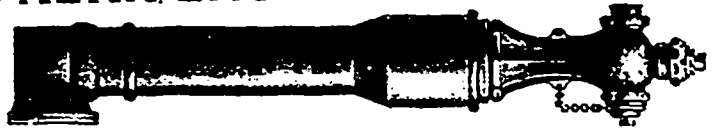
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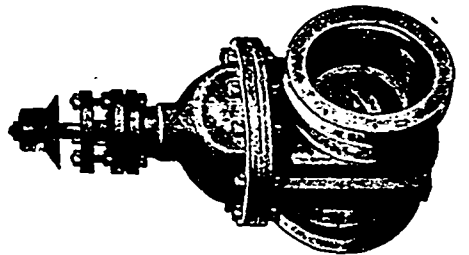
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MUNICIPAL DEPARTMENT

LEGAL DECISIONS AFFECTING MUNICIPALITIES.

TOWNSHIP OF TILBURY WEST VS. TOWNSHIP OF ROMNEY. -- This case was heard in the Divisional Court at Toronto. Judgment affirming order of local judge at Chatham staying proceedings. Action to recover \$7,480.25 (and interest), the shares of defendants in the amount of the cost of the "Big Creek Drain" in the county of Essex, pursuant to report of engineer appointed by plaintiffs. The order in appeal stays proceedings in this action pending the appeal to the Supreme Court of Canada in an action of the Sutherland Innes Co. v. Romney, brought by land-owners in the township of Romney, to set aside a by-law of said township adopting said report, and to prevent the assessment of the plaintiff's land to provide part payment for the drain. It was contended for plaintiffs that their action is properly constituted, and that they have a valid cause of action; that they are not parties to the action of Innes v. Romney, and cannot be affected by the results, and that defendants have no defence and are estopped from questioning the report because they have not appealed against it, but, on the contrary, recognized their liability by passing a by-law pursuant to and making assessments and levying rates and issuing debentures thereunder, and also standing by while the plaintiffs completed the work, and then using the drain, and that at all events a stay should not be granted until after delivery of defence. Held, that plaintiffs in bringing this action are pursuing an undoubted right, and that they are not doing anything of a vexatious character; see Higgins v. Woodhall, 6, T. L. R., and G. N. W. Central Railway Co. v. Stevens, 18 P. R., 392. Appeal allowed with costs here and below.

FEE VS. TOWNSHIP OF OPS.—Action tried at Lindsay brought by landowners to recover damages for negligence of defendants, and their failure to maintain the drain along the boundary of plaintiff's land, and for a mandamus or mandatory injunction to defendants to repair and maintain the drain. Leave to plaintiff to plead the absence of an engineer during the construction of the drain as evidence of negligence refused. Held, having regard to the rough character of the locality at the time of the construction of the drain in 1881, to the extent of the work, and to the amount of money allowed, that all that was to be reasonably expected was top drainage of superficial char-

acter, and, also, having regard to the length of time elapsed and to the fact that defendants have only just been authorized to, and are proceeding upon, a new and general scheme of more effective drainage, that the action should be and is dismissed with costs.

BOGART VS. TOWNSHIP OF KING.—Judgment (E.B.B.) in action tried without a jury at Toronto. Action to restrain the levy of a rate under a by-law of the defendant corporation giving a bonus to the Schomberg & Aurora Electric Railway Co., and providing for the levying of a rate. Held, that the clerk of the defendants was bound by sec. 129 of the assessment act to include the rate in question in the collector's roll; the council had by the by-law, ordered a certain sum to be levied, and the clerk rightly calculated the amount chargeable against the plaintiff, and set it down in the roll; it was not necessary for the council to do anything further, either because of sec. 402 or otherwise. Clarke v. Town of Palmerston, 6 O.R. 616, distinguished. Held, also, that the rate could be levied notwithstanding that the debentures had not all been sold. Held, lastly, that the rate could be levied notwithstanding that it had not been collected for the first year. Action dismissed with costs.

REPORT ON GAS TAR.

Mr. J. W. Williams recently presented the following expert report to the Hamilton city council on a quantity of tar purchased in Toronto: Four lots were tested for pitch strength, volatile matter and water. I reported finding the pitch strength 60 per cent., and classed the tar as high grade on that basis. Results in roadwork being not satisfactory I have tested pitch from this tar, and find to contain 30 per cent. retort or coke dust, equal to 18 per cent. coke dust in the tar. This, with the presence of volatile matter, such as light oils, naphthalene, etc., make this tar unsuitable for road making. The tar which should be used for this work is tar which has been distilled for the removal of the volatile portions, and also which on analysis contains only small proportions of retort dust, or practically none. As described above, the result would be just as is found in actual practice—that tar of the kind under discussion (that is, untreated tar) would dry up and leave a black, dusty surface, possessing no adhesive, bonding or waterproof qualities. The New York tar, on assay for coke dust, was found to contain twelve per cent. This, as against the eighteen per cent. in the Toronto tar, is one-third less, and as it has, what is more important, no volatile matter to evaporate it, the New York tar has material for the road stuff of the right nature, while being filled with one-third less dry matter.

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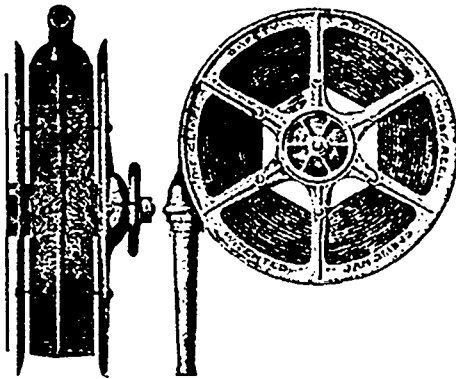
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Roofing Tiles, \$20.00 per 1,000, \$23.00 Montreal.

BEANSVILLE BRICK AND TERRA COTTA CO. F.O.B. F.O.B. Beamsville. Montreal.

Table with 2 columns: Brick type (Red Peerless Facing, No. 1, No. 2, No. 3, Brown Peerless, No. 1, Buff Peerless, No. 1, No. 2, Vitified Pavin, etc.) and prices per 1,000.

COMMON BRICK, Per M.

Table with 2 columns: Brick type (Common Walling, Good Facing, Sewer) and prices per 1,000.

STONE.

Table with 2 columns: Stone type (Common Rubble, Large flat Rubble, Foundation Blocks, Granite, Amherst Red Sandstone, Kent Free stone Quarries, River John, Freestone) and prices per cubic foot.

Table with 2 columns: Stone type (Sandstone, Scorize Paving Blocks, Scorize Paving Blocks, Masillon, Quebec and Vermont rough granite, etc.) and prices per cubic foot.

CREDIT VALLEY STONE.

Table with 2 columns: Stone type (Rubble, Brown Coursing, Brown Dimension, Grey Coursing, etc.) and prices per cubic foot.

LONGFORD STONE.

Table with 2 columns: Stone type (Rubble, Ashlar) and prices per cubic foot.

SLATE.

Table with 2 columns: Slate type (Roofing, red, purple, ding green, black, Terra Cotta Tile, etc.) and prices per square.

CEMENT, LIME, etc.

Table with 2 columns: Cement/Lime type (Portland Cements, German, London, Newcas, etc.) and prices per barrel.

Table with 2 columns: Material type (Napanec, Hull, Ontario, Fire Bricks, Lime, Plaster, Hair, etc.) and prices per unit.

HARDWARE.

Table with 2 columns: Hardware type (Cut nails, Steel, CUT NAILS, FENCE AND CUT SPIKES, 4od, 10 to 12d, etc.) and prices per unit.

IRON PIPE:

Table with 2 columns: Iron pipe type (ron pipe, 3/4 inch, 1 inch, etc.) and prices per 100 feet.

Lead Pipe:

Table with 2 columns: Lead pipe type (Lead pipe, Waste pipe) and prices per 100 feet.

Galvanized Iron:

Table with 2 columns: Galvanized iron type (Adam's-Mar's Best, 16 to 24 gauge, 26 gauge, etc.) and prices per 100 feet.

Structural Iron:

Table with 2 columns: Structural iron type (Steel Beam, channels, angles, tees, plates, Sheared steel bridge plate) and prices per unit.