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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. 10.

AUGUST 9, 1899

No. 25.

THE CANADIAN CONTRACT RECORD,

PUBLISHED EVERY WEDNESDAY

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

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

Advertising Rates on application.

Student Wanted

or Junior Improver. Must be qualified to pass O.A.A. examinations.

HURKE & HORWOOD, Architects,
33 Toronto Street, Toronto.

TENDERS FOR \$40,000 DEBENTURES

Sealed tenders will be received by the undersigned up to 7.30 p.m. on **MONDAY, THE FOURTEENTH DAY OF AUGUST, 1899**, for the supply of Three St. Marys Debentures, payable in thirty years, interest four per cent. No tender necessarily accepted.

L. HARSTONE,

St. Marys, Ont., July 31st, 1899 Town Clerk.



TENDERS FOR Telegraph Wire

SEALED TENDERS, addressed to the undersigned and endorsed "Tender for Telegraph Wire," will be received at this office until **FRIDAY, EIGHTEENTH AUGUST, 1899**, for the supply of Three Hundred and Thirty Thousand Pounds or One Hundred and Sixty Five tons (of 2,000 lbs.) of No. 1 S.W. G. Galvanized Iron Telegraph Wire (154 to 363 lbs. per mile), delivered in bond at the C.P.R. Station at Vancouver, B.C., within five weeks from the time the contract is awarded.

The quality of the wire and galvanizing must be such as will afford a test corresponding to the Fellen-Guillaume standard E. L. II; having a constant (resistance x weight, per mile) under 5,700; breaking strain over 1,100 lbs.; and taking not less than 20 twists in six inches. Weight of lengths without joint 90 to 112 pounds.

Also for delivery with the above, 10,000 lbs., or five tons (of 2,000 lbs.) No. 9 S. Annealed Galvanized Iron Tie Wire. The coils to be distinctively tagged.

Tenders to state the price per 100 lbs., all charges included, in bond at Vancouver as above.

Each tender to be accompanied by an accepted bank cheque for an amount equal to ten per cent. of the bulk sum of the tender.

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

By Order,

E. F. E. ROY,

Secretary.

Department of Public Works,
Ottawa, August 2nd, 1899.

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

FOR SALE

600 feet of 1 1/2 inch Cast Iron Flexible Pipe—the Ward joint; new. Apply **JOHN LANTON**, 1457 Queen Street West, Toronto.

TENDERS

ALGOMA CENTRAL RAILWAY.

This road is now being located from Michipicoton Harbor eastwardly. Contracts will be let privately for **GRADING AND ROCK WORK**

to contractors having teams and small outfits, as fast as the road is located.

For further information apply in person or by mail to

H. E. TALIOT,
Superintendent of Construction,
Michipicoton River, Ontario.

Debentures for Sale

Sealed tenders will be received by the undersigned up to noon on **MONDAY, THE FOURTEENTH DAY OF AUGUST NEXT**, for the purchase of the following Debentures of the Town of Waterloo, viz.:

Waterworks Debentures for Forty Thousand Dollars, payable in Thirty Annual Installments; interest 4 per cent. per annum, payable yearly.

Isolation Hospital Debentures for Ten Hundred and Eighty Dollars, payable in Ten Annual Installments; interest 4 per cent. per annum, payable yearly.

No tender necessarily accepted.

SIMON SNYDER,

Chairman Finance Committee,

Waterloo.

Waterloo, July 28th, 1899.

VILLAGE OF DUNNVILLE DEBENTURES

Sealed tenders will be received by the undersigned up to the 22nd OF AUGUST, for the purchase of any or all of the following Debentures, viz.:

\$7,000. For the Construction of Cement Concrete Sidewalks; repayable in 30 years.

\$4,000. For the Construction of a Water-Filter in connection with the Waterworks; repayable in 30 years.

\$5,000. To Pay the Existing Indebtedness of the Municipality; repayable in 30 years.

All the above bear three and one-half per cent. interest, payable annually in instalments.

The Council reserve the right to accept or reject any tender.

Further information may be obtained by application to

J. W. HOLMES,
Clerk of Dunningville.

TENDERS

Sealed bulk or separate tenders will be received by the undersigned up to 12 o'clock,

Noon, August 15th, 1899,

for the various trades, including Steam Heating and Plumbing, required in the

Erection of a Gaoler's Residence

in connection with the County Gaol, Harrie. Plans and specifications may be seen at the office of the architects, **Thos. Kennedy & Co., Harrie.**

Tenders will also be received for a second hand 30 horse power high pressure Steam Boiler, to stand a cold water test of 125 pounds.

G. W. BRUCE,

Chairman Gaol Committee,

P.O. Box 36, Collingwood.

TENDERS

FOR

Fire Alarm Wire

Sealed tenders, addressed to the Chairman of the Fire, Water and Light Committee, for the supply of 20 miles of No. 1 E. B. double braided Iron Wire, "B. W. G." or No. 12 "U. S. S." hard drawn copper, double braided weatherproof Wire, will be received at the office of the undersigned up to 3 p.m. on

Saturday, August 12

Any information required may be obtained at the office of the Water and Light Commissioner, Winnipeg. Each tender must be accompanied by an accepted cheque or cash deposit for an amount equal to five per cent. of the tender, which will be subject to forfeiture in case of failure on the part of the contractor to enter into a written contract with approved sureties if called upon to do so.

The right is reserved to reject any or all bids or to accept any bid which appears advantageous to the City of Winnipeg.

C. J. BROWN,
City Clerk.

Winnipeg, Can., August 1, 1899.



Notice to Contractors

TENDERS FOR ROADWAYS 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 **THURSDAY, AUGUST 17th, 1899**, for the following works:

BRICK PAVEMENTS:

St. Patrick Street, from Spadina Avenue to Denison Avenue.

Pearl Street, from Simcoe Street to York Street.

CEDAR BLOCK PAVEMENT:

West Lodge Avenue, from Marion Street to a point 1,145 feet to inches north

MACADAM ROADWAY:

Davenport Road, from Avenue Road to a point 676 feet west.

CONCRETE SIDEWALKS:

Wilcox Street, from Huron Street to Spadina Avenue.

Bay Street, west side, 144 feet 6 inches north of King to Queen Street.

James Street, east side, from Queen Street to 131 feet 8 inches north.

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

Conditions and specifications may now be seen and forms of tenders obtained at the office of the City Engineer.

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 whole value of the work tendered for, must accompany each and every tender. Tenders without deposit 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.

The lowest or any tender not necessarily accepted.

JOHN SHAW (Mayor),
Chairman Board of Control.

City Hall, Toronto, August 1st, 1899.

CONTRACTS OPEN.

HAVELOCK, ONT.—A town hall will be built here.

SEBRINGVILLE, ONT.—Plans have been prepared for a new fire hall.

DARNOCH, ONT.—Robert Wade is preparing to erect a large barn.

JEANNETTE'S CREEK, ONT.—Thos. Cox purposes building a brick block.

SEAFORTH, ONT.—T. R. F. Case has purchased site for park factory.

EDMONTON, N.W.T.—A by-law for purchase of market site was defeated.

TOWNSEND, ONT.—Duncombe Bros. intend to rebuild their grain warehouse.

PAKFNHAM, ONT.—Wm. Halliday has commenced the erection of a residence.

MIDLAND, ONT.—The foundation is being prepared for the proposed smelter.

KANLOOPS, B. C.—J. C. Shields, of Ashcroft, purposes erecting a saw mill here.

SARNIA, ONT.—Alterations will be made to the steamer Darius Cole next winter.

PEMBROKE, ONT.—Alice and Fraser council will likely purchase a road machine.

DESERONTO, ONT.—It is understood that the Bay of Quinte railway is to be extended.

WROXETER, ONT.—A movement is on foot to secure the installation of an electric light plant.

WOODBRIDGE, ONT.—Blackwood Lodge A.F. & A.M. has decided to build a Masonic hall.

MILVERTON, ONT.—Dixon Alexander has purchased a site on which to erect a grain elevator.

CHATHAM, ONT.—J. L. Wilson & Son, architects, have taken tenders on residence for R. Rorison.

TROUT CREEK, ONT.—Julius Evers has had plans prepared for addition to Queen's Hotel, cost \$1,000.

PORT COLBORNE, ONT.—It is said that tenders will be invited this fall for proposed harbor improvements.

TRENTON, ONT.—The Gilmour Company have decided to rebuild the dams along the Scooniamatta river.

WATFORD, ONT.—A. Laird, reeve of Warwick, wants tenders by 31st inst. for building bridge over Bear Creek.

BURKS FALLS, ONT.—The Knight Bros. Company have purchased a water power from the Dominion Bank.

ST. JOHNS, QUE.—A by-law to raise \$20,000 to install an electric light plant for the town was defeated recently.

OSHAWA, ONT.—Voting will take place on August 21st on a by-law to build a county house of refuge in this town.

ALMONTE, ONT.—The Bell Telephone Company will rebuild their line between Almonte and Pembroke next year.

ST. CATHARINES, ONT.—Tenders closed yesterday (Tuesday) for construction of concrete sidewalks in this city.

PARRSBORO, N. S.—A company has been organized here to build a woollen mill, with James Gray as manager.

MILLERTON, N. B.—Tenders are being taken this week by George R. Vanderbeck for building Temperance Hall.

THREE RIVERS, QUE.—The Agricultural Association will rebuild the buildings formerly used by the Montreal Exposition.

STRATFORD, ONT.—T. J. Hepburn, architect, has invited tenders for extensive repairs to St. Andrew's Presbyterian church.

WELLAND, ONT.—George Ross, C.E., is taking tenders on an evaporator to be built here. Building will be 30x40 feet, two storeys.

PRESCOTT, ONT.—As soon as the waterworks system now under way is completed, it is proposed to put in a sewerage system.

BROCKVILLE, ONT.—The members of

the Board of Trade are interesting themselves in the erection of an hotel at Macdonald Point.

NIAGARA FALLS, ONT.—C. H. Mitchell, C.E., has gone to New Brunswick to report upon a water power development in St. John river.

LONDON, ONT.—Tenders for a glazed tile sewer on Queen's avenue will be received by the city engineer up to Thursday, August 17th.

GUELPH, ONT.—Powell & Wideman, architects, are preparing plans for remodelling a store for the Trusts & Guarantee Company.

LINDSAY, ONT.—Ops township council have instructed the township engineer to survey drain No. 1, with a view to improvement and enlargement.

WOODSTOCK, ONT.—The tenders submitted for new fire hall were found too high, and it is probable that new plans will be prepared and tenders again invited.

WHITBY, ONT.—A proposal is under consideration to establish a park east of Whitby harbor, and extend the street railway to it. Mr. Dow is one of the promoters.

BERLIN, ONT.—C. M. Huether has purchased a site on which to build his proposed brewery.—Dr. Campbell purposes building a livery stable, 40x100 feet, two storeys.

ARNPRIOR, ONT.—Tenders wanted by the 21st inst. for erection of skating and curling rink. Plans from J. Arthur Simpson, secretary, or J. E. McLaren, architect, Ottawa.

COLLINGWOOD, ONT.—Tenders are asked by 12th inst. for supplying gravel and filling in basement of Collegiate Institute building. Particulars from Fred T. Hodgson, architect.

ST. JOHN, N. B.—The Board of Works has recommended the council to purchase a stone crusher and road roller.—The city will submit to council an estimate of the cost of asphaltizing Germain street.

ROKEBY, ONT.—L. Lindsay, commissioner, desires tenders by August 19th for construction of government drain No. 1, the work to be completed by December 10th. Plans at office of A. S. Code, C.E., Alvington.

KINGSVILLE, ONT.—Work has commenced on the new glass factory, under the superintendence of James W. Drake. The main building will be 100 feet square, with several warehouses and cottages for workmen.

SHERBROOKE, QUE.—Plans have been completed by the Public Works Department, Quebec, for court house to be built in this city. Building will be of brick, with granite foundation, two storeys, tower and dome.

ST. MARVS, ONT.—Willis Chipman, C. E., of Toronto, has been engaged to prepare plans and superintend the construction of a water works system for this town.—Contractors are figuring on a house for Joseph Humphries.

DUNDAS, ONT.—The site is being prepared for a new hotel on post-office site.—L. P. Spittall is about to build a pair of cottages.—By-laws were carried last week to raise \$3,800 for permanent improvements and \$8,000 to pay overdue debentures.

QUEBEC, QUE.—The British American Pulp & Paper Company, composed of R. Prefontaine, of Montreal, Jules Tessier, of this city, and others, purpose constructing an electric railway from a point on the Lake St. John Railway round the lake to Roberval, with branch lines.

VICTORIA, B. C.—The ratepayers have carried a by-law authorizing a fifty-year lease of the James Bay mud flats to an English syndicate, represented by Henry Croft, of this city. The syndicate will convert the flats into a park, build a bridge across James Bay, and erect kiosks for mercantile purposes.

WOODSTOCK, N. B.—It is said that an

engineer is preparing plans for mills to be erected near Plaster Rock, on the Tobique river, for the Tobique Mfg. Co. F. H. Hale, M.P., and H. Hilyard, of St. John, are interested.—It is rumored that work will be commenced at once on the St. John River Railway.

RAT PORTAGE, ONT.—John Mather, of Ottawa, states that work will soon be commenced on the proposed paper and pulp mills at this place.—Mr. White, chief engineer of the Ontario & Rainy River railway, is said to have been authorized to let contracts for the building of 100 miles of the road.

KINGSTON, ONT.—The council will construct a sewer on Gore street, cost \$1,370. An asphalt walk will also be laid on Clergy street west.—Plans have been completed for converting the old vehicle works into an opera house.—The Kingston Electric Railway Company will next winter erect at Lake Ontario park a pavilion capable of seating 1,500 persons.

HULL, QUE.—The city engineer has been making surveys and will recommend to council that a plant be installed to pump the water supply by water power.—Messrs. P. Genest, George Tessier, and others, have purchased property, corner Bridge and Main street, and purpose building a rink thereon.

WINNIPEG, MAN.—In connection with the drainage of St. Andrew's marsh, now being carried out by the government, it will be necessary to construct several bridges over the drains.—H. S. Griffith, architect, is calling for tenders for alterations and additions to a building for the municipality of Portage la Prairie.

SHELBURNE, ONT.—The school trustees are looking into the question of heating the new school. A hot air system will likely be adopted.—There is a movement on foot looking to the installation of a municipal electric light plant.—Bids are invited up to August 17th for purchase of \$8,500 of debentures, payable in 30 years, with interest at 4 per cent. Address, G. M. Vance, chairman Finance Committee.

HAMILTON, ONT.—The by-law to raise \$50,000 by debentures for purchase of Dundurn Park will be voted on by the ratepayers on September 14th.—Government engineer Stewart is taking measurements for the purpose of preparing plans for new piers in the harbor.—The Hamilton Bridge Works Company is negotiating for a site on which to erect additional buildings.—The council will lay a tar macadam pavement this year on Stuart street, between James and Bay.

PARIS, ONT.—The Grand River Light & Power Company have completed the purchase of a power site, and will commence the construction of their dam at once.—The Athletic Association purpose building a skating and curling rink.—On August 25th the ratepayers will vote on a by-law to raise \$6,000 for new span and abutment for Dundas street bridge, \$1,650 for repairing William street bridge, \$2,000 for 6 in. main, and \$500 for repairing bridge over the Nith.

MONTREAL, QUE.—The North British & Mercantile Insurance Company have had plans prepared by Percy Barnes, architect, for alterations and improvements to their building, corner St. Francois Xavier and Hospital streets. Two plans have been submitted, but it has not yet been decided which one will be carried out.—It is understood to be the intention of the Dominion government to establish a new rifle range in the vicinity of Pointe aux Trembles. Rifle ranges will also be established at Victoria, B.C., Hamilton, Ont., and Bedford, N.S.—Bids are invited by W. Robb, city treasurer, up to September 15th for purchase of \$222,000, 3½ per cent. bonds.—Mr. Berryman, C.E., has completed a survey of the route of the Atlantic & Lake Superior railway from Port Daniel to

...spe, a distance of 90 miles.—William Perrin, architect, is calling for tenders for a summer residence for Rev. C. E. Amaron.—Representatives of an English syndicate are negotiating for the purchase of property bounded by Notre Dame, St. Amable and St. Vincent streets and Jacques Cartier square, with a view to the erection thereon of a large modern hotel.—Charles A. Reeves, architect, has completed plans for houses to be built by Joseph Rheaume on Lasalle avenue, Maissonneuve. Same architect is preparing plans for two houses on Letourneux avenue, Maissonneuve, for Joseph Brouillet. J. A. Morin, architect, is preparing plans for two houses to be built on Vinet street, St. Cuneegonde, for Dr. Leonard.

RENFREW, ONT.—J. K. Rochester, town clerk, invites tenders up to 12th inst for purchase of \$5,000 sewer debentures and \$8,400 consolidated debentures.

The town is about to undertake the construction of sewers, the money to be raised by the issue of debentures.—Quotations are now being taken for the supply of sewer pipe.—The Renfrew Electric Light & Power Company is being organized, with capital stock of \$50,000. The company propose to develop the water power of the Bonnehere river.

CLARKSBURG, ONT.—Plans and specifications are being prepared by Fred. T. Hodgson, architect, Collingwood, for a large brick addition to the Queen's Hotel, Clarksburg, which is to be built, along with repairs and renovations to the old hotel. The building will be two storeys and basement, is to be heated with hot water throughout, and fitted with up-to-date plumbing and all the necessary improvements to make it a first-class country hotel. Estimated cost of all the work, \$5,250, including repairs and renovation of old building.

OTTAWA, ONT.—The city desires tenders by noon to-day (Wednesday) for construction of asphalt pavement on McLaren street. Particulars from city engineer.—E. F. E. Roy, secretary Department of Public Works, wants tenders by August 22nd for construction of breakwater at Port Hillford, N.S. Plans at office of E. T. Millidge, Antigonish, C. E. Dodwell, Halifax, and at above department.—It is reported that tenders are being submitted for the construction of the Pontiac & Pacific Junction railway between Aylmer and Ottawa.—The Dominion government has just invited tenders for the supply of 12,000 barrels of Portland cement.—The Protestant Hospital directors desire to make alterations to the old wing, at a cost of \$5,000, and are endeavoring to procure funds for the purpose.—The House of Commons have adopted a bill granting \$70,000 annually to the city for twenty years, to be expended by the government on improvements. Certain streets adjacent to the government property will be asphalted, and other necessary improvements carried out.—The time for receiving tenders for Portland cement has been extended by the government to Tuesday, 15th inst.—Rev. Albert Walkley, pastor of Unitarian church, is having plans prepared for new edifice.—It is proposed to construct fifteen miles of the Ottawa & Gatineau railway this season. This will be from Gracefield to Maniwaki.

TORONTO, ONT.—The city engineer has recommended the construction of the following works: Concrete walks—Spadina avenue, both sides, Spadina crescent to Bloor; Russell street, north side, St. George to Huron; Markham street, both sides, College to Harbord; Grosvenor street, both sides, St. George to St. Vincent; Grosvenor street, both sides, St. Vincent to Surrey place; Elgin avenue, east side, Avenue to Bedford road; Beverley street, west side, Queen to College; Washington avenue, both sides, Huron to Spadina; Hunley street, east side, Isabella to Linden; Russell street,

south side, St. George to Huron; King street, south side, from 79 feet 10 inches west of York to Simcoe. Macadam pavements—McDonell square, south side, from Bathurst to Defoe, cost \$1,000; Breadalbane street, Yonge to St. Vincent, cost \$1,100; Bean street, Elm avenue to South Drive, cost \$1,180; Vine street, Front street to Eastern avenue, cost \$960. Brick pavements—Lippincott street, Nassau to College, cost \$1,750; Robinson street, from Bathurst to Palmerston, cost \$5,060. Asphalt pavements—Bernard avenue, from St. George street to Bedford road, cost \$6,430; Albert street, James to Chestnut, cost \$12,260. Cedar block pavement on Bay street, from Front street to Esplanade, cost \$2,250.—The board of the Young Women's Christian Association have made arrangements for the completion of the top storey of the building.—Messrs. Ryrie Bros., jewellers, have secured possession of the store immediately north of their property, and purpose combining it with their present store. The interior will be entirely remodelled and refitted.—The Board of Control having refused to grant an additional \$5,000 for a wing to the Isolation Hospital, the work will be deferred until next year.—The city engineer has recommended that steps be taken at once to properly dispose of the sewage now emptied into the bay.—Building permits have been granted as follows: Ella Sexton, pair two storey and mansard brick houses, south side Pearson avenue, cost \$2,500; George May, two-storey and attic brick dwelling, 4 Garden avenue, cost \$1,300; David Elliott, brick addition to factory, 74 Nelson street, cost \$3,000; J. Sutherland, two-storey brick front and roughcast house, near Sydenham on Sunruch, cost \$1,000; Daniel Whetstone, two-storey brick store and dwelling, 397 Brock avenue, cost \$2,500; J. O. Patterson, pair three-storey and attic brick stores, southwest corner St. Patrick street, cost \$8,000; H. E. Trent, new premises for Ontario Bank, corner Queen and Portland street, cost \$4,500.—Tenders have been invited for building a brick chimney at the waterworks engine house, North Toronto.—It is probable that the chairman of the Board of Works and the city engineer will go to Madison, Wis., this fall to look into the system of sewage disposal employed there, the information obtained to be used in connection with the construction of a sewerage system for this city.—Residents of Spadina avenue, between Adelaide and Queen streets, have petitioned for a new pavement. The city engineer has recommended an asphalt pavement on Palmerston avenue, between College and Arthur streets.—The Mayor has been assured by the

Dominion government that plans will be prepared at once for straightening the Don and dredging Toronto harbor, and that tenders will be invited in a short time.—York township council has instructed its engineer to obtain tenders for a steel bridge, 100 feet long, at the forks of the Don river.

FIRES.

Residence for Paul Mullins at Bateson, C.B.; loss \$3,000—Lime works of D. Robertson & Co., of Toronto, on the C.P.R., three miles west of Milton, totally destroyed; no insurance.—One of the shops of the Canada Atlantic Railway at Ottawa; loss \$10,000.—Mill of Dumas Hotte at Chelmsford, Ont.; loss \$7,000.—Storage house of Boldy & Noake at Winnipeg, Man.; loss \$15,000.

CONTRACTS AWARDED.

VICTORIA, B.C.—Paint factory for W. J. Pendray; Esford & Smith, contractors; three storeys, brick, stone and steel.

TOTTENHAM, ONT.—\$8,000 Tecumseh township drainage debentures: W. S. Morris, Hamilton, purchaser, \$8,568.

BROCKVILLE, ONT.—The James Smart Mtg. Company have secured contract for heating public school at Seatons with four "Kelsey" generators.

MONTREAL, QUE.—William Perrin has accepted the following tenders for building Methodist church on Delisle street: Masonry, Benda & Son; brick, R. E. Edwards & Son; carpentry and iron work, A. Strange; roofing, Campbell & Gilday; plastering, H. Contant; painting and glazing, Jones & Henry; plumbing and heating, John Gordon.

LETHBRIDGE, N. W. T.—Two 150 h.p. Mumford improved boilers for Alberta Railway & Coal Co.: Robb Engineering Co., Amherst, N. S., successful tenderers.

DURHAM, ONT.—Furniture factory: Masonry, Hugh Macdonald, \$2,600; carpenter work, George Moore and John Moffatt, \$2,625; roofing, Parrot & Co., \$515.

TILBURY CENTRE, ONT.—Tilbury East council have accepted the tender of Schwickart Dredging Company, Detroit, to improve government drains; price \$18,550. Mr. M. Donnell, engineer.

CALGARY, N.W.T.—J. Llewellyn Wilson, architect, has let to J. F. Eckersley the contract for maternity hospital and nurses' home, and to J. C. McNeil the contract for alterations and additions to residence at The Mission.

SARNIA, ONT.—\$954 township of Sarnia debentures: G. A. Stimson & Co., Toronto, \$985; Lambton Loan & Investment Co., \$989.50; Industrial Mortgage

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**The Smart-Eby
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and CAISSON FOUNDATION a Specialty**

Co., \$991.10; Hutton & Lambton Loan & Savings Co., \$993 (accepted).

WINNIPEG, MAN.—Contract for grading Great Northwest Central Railway has been awarded to A. Fisher and D. J. McArthur. — Rosebank drainage: H. Hallam, Cook's Creek, successful tenderer. The work involves 15,000 cubic yards of earth work, and 6 acres of clearing.

TORONTO, ONT.—The Board of Control has let the contract for macadam pavement on Sackville street to Dominion Paving Company, at \$3,174, and for same pavement on Duffell street to E. Hartnell, at \$4,379.—Separate School Board have accepted tender of Office Specialty Company for 265 desks at \$2.80 each for single desks and \$2.15 each for single rear desks.

FORTAGE LA PRAIRIE, MAN.—Hardware store, 60 x 105 feet, for T. & W. Millar: Adam Newert, contractor, \$12,000.—Furniture store, 31 x 85 feet, for A. McKillop: Stonework, A. Newert, \$2,400; carpenter work, S. B. Ritchie, \$2,400.—Residence for John Ferris: R. J. Simmonds, contractor, \$4,000. H. S. Griffith, Winnipeg, architect of above buildings.

BERLIN, ONT.—The following tenders were received by the town for sewer construction. J. M. Scully, Berlin, East ward sewer, \$5,300, Frederick street, \$1,575, Water street, \$375; E. J. Hartnett, Toronto, East ward sewer, \$4,997, Frederick street, \$1,497; J. J. Moylan, Toronto, East ward sewer, \$5,033; B. Johnson, London, East ward sewer, \$4,295, Frederick street, \$1,347; E. A. Cawsey, Stratford, East ward sewer, \$3,853, Frederick street, \$1,152, Water street, \$289; Boehmer & Bishop, Berlin, East ward sewer, \$3,550; Frederick street, \$1,175; Water street, \$275. Boehmer & Bishop have been awarded the East ward and Water street work, and E. A. Cawsey the Frederick street contract.

NIAGARA FALLS, ONT.—Following is a list of tenders submitted for construction of concrete walks, etc.: P. H. Marden & Co., London—sidewalks, 12.5; crossings, 16.75; curb (concrete), 15; stone (str.), 49; curb (cir.), 36; total, \$18,182. John J. Moylan, Toronto—sidewalks, 11.75; crossings, 16.25; curb (concrete), 23; stone (str.), 63; curb (cir.), 130; total, \$18,015. Samuel McLean, St. Catharines—sidewalks, 13; crossings, 13.5; curb (concrete), 7; stone (str.), 60; curb (cir.), 70; total, \$17,980. C. B. Smith, Toronto—sidewalks, 16; crossings, 21; curb (concrete), 12; stone (str.), 70; curb (cir.), 40; total, \$22,720. Jacob Lovell, Niagara Falls—sidewalks, 14.5; crossings, 17; curb (concrete), 7; stone (str.), 46; curb (cir.), 51; total, \$19,970. E. J. Hartnett, Toronto—sidewalks, 11.5; crossings, 17; curb (concrete), 22; stone (str.), 61; curb (cir.), 125; total, \$17,638. Pat. McCall, Niagara Falls—sidewalks, 13.75; crossings, 17; curb (concrete), 19; stone (str.), 45; curb (cir.), 55; total, \$20,015. The tender of Samuel McLean

has been accepted.—For \$71,000 4 per cent. debentures, the council has accepted the tender of G. A. Stimson & Co., Toronto, at premium of \$3,911.

RAILWAY AND BRIDGE SUBSIDIES.

The Dominion railway and bridge subsidies were submitted to the House on July 27th. Including revotes, the total sum asked for is \$6,540,295. Railway appropriations are as follows:

RAILWAYS.

Bay of Quinte railway, for branches to mines or woodlands in Peterborough, Northumberland, Hastings, Lennox and Addington, Frontenac, or Leeds; Hawkesbury to South Indian, 35 miles; Sault Ste. Marie to Michipicoten harbor and main line of C.P.R., 40 miles; branch line from main line of O., A. & P.S. railway to Parry Sound, 5 miles; Haliburton, via Whitney (O., A. & P.S.), towards Mattawa, 20 miles; extension of Tilsonburg, Lake Erie and Pacific railway from Tilsonburg to Ingersoll or Woodstock, 28 miles; South Shore railway, Sorel to Lotbiniere, 82 miles; Fort Frances, westerly to mouth of Rainy river, 70 miles; Canadian Northern, from the Winnipeg Great Northern north of Swan river to Prince Albert, 4 miles; Edmonton, Yukon and Pacific railway, from South Edmonton to North Edmonton, thence westerly through Yellow Head pass, 50 miles; Bay of Quinte Railway Co., for extension westerly from Deseronto, 2 miles, and for extension from Tweed northerly, 5 miles; Ontario, Belmont and Northern railway, from present terminus at iron mines, north-westerly, 5 miles; also for extension southerly to the Central Ontario junction of the Ontario Pacific railway, 2 miles; Pembroke Southern, from Golden Lake toward Irondale, Bancroft & Ottawa

railway, at Bancroft, 20 miles; Lake Erie & Detroit River Railway Co., from Ridgetown to St. Thomas, 44 miles, with running rights over the Canada Southern; Kingston and Pembroke railway, branches from main line to Bluff Point iron mine and Martelo mine, 5 miles; Parry Sound, towards Sudbury, 20 miles; Ontario & Rainy River Railway Co., from Stanley Station, on the P. A., Duluth & Western, to Fort Frances, 140 miles, at \$5,400 per mile, not exceeding \$890,000; Massawippi Valley Railway Company extension to Stanstead Plain, Que., 31 miles; Port Hawkesbury, N.S., to Cariboo Cove, 10 miles; Fort Frances, Ont., to mouth of Rainy river, 70 miles; Central New Brunswick railway, from Newcastle coal fields to Gibson, N. B., 30 miles; Antler Station to Moose Mountain, Man., 50 miles; Sunny Brae to County Harbor, and from County Harbor to Guysboro, N.S., 15 miles; Port Clyde to Lockport, N.S., 20 miles; from I.C.R. near Halifax to Central Railway, Lunenburg, N.S., 20 miles; from Labelle, P.Q., to Momaningue, 22 miles; Western Alberta railway, N.S. boundary to Anthracite, 50 miles; Restigouche and Western, continuation from western end of 25 miles, subsidized, towards St. John river, 15 miles, and for the railway from St. John river near Grand Falls or St. Leonard to Campbellton, N. B., 12 miles, in all 27 miles; St. Francis to mouth of St. Francis river, N.B., 3 miles; Canada Eastern, Nelson to Chatham, N.B., 2 1/2 miles; Passobie, P.Q., to Gaspé, 32 miles.

The following are revotes:—Central Ontario Railway Co., extension from Coe Hill to Bancroft, 21 miles; Great Northern Railway Co., Montcalm and St. Tite Junction, on the Lower Laurentide railway, Que., 53 1/2 miles, for branch from main line to Shawanegan, 6 1/2 miles; Philipsburg Railway and Quarry Co., shortage to government wharf at Philipsburg, Que.,

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66-100 miles; Strathroy and Western County railway, Strathroy, via Adelaide and Arkona to Forest, Tedford or Parkhill, 24 miles; St. John Valley and Riviere du Loup railway, Fredericton to Woodstock, 50 miles; Port Hawkesbury, N.S., to St. Peter's, 30 miles; Windsor to Truro, N.S., 58 miles; Brookfield, N.S., on the I.C.R., to Eastville, 25 miles; Cross Creek Station, N.B., to Stanley village, N.B., 6 miles; St. Remi to Stottsville, or some point on the Grand Trunk in St. Valentine parish, 19 miles; Pontypool and Bobcaygeon, via Lindsay, 40 miles; Pontiac and Pacific Junction railway, Aylmer to Hull, 9 miles; Portage du Fort and Bristol branch railway, for branch from P.P.J. at Dayou, 15 miles; Oxford Mountain railway and Lawrenceville, or Eastman to Waterloo, 13 miles; Atlantic and Lake Superior, Caplin to Paspebiac, 30 miles; United Counties railway, branch from St. Robert to Sorel, 64 miles; and from Mount Johnson to St. Gregoire Station, one mile; Central railway, Lunenburg, N. S., to Liverpool, via Caledonia, 63 miles; Indian Garden (Queen's County, N.S.) to Shelburne, 35 miles; Quebec and Lake St. John railway, Deepwater to Ha-Ha bay, 12 miles.

BRIDGES.

The following are the bridge subsidies: Quebec, \$1,000,000; Yamaska, \$50,000; Sorel, \$35,000; St. Francis river, \$50,000; Nicolet, \$15,000; Midland railway over St. Hubenacadie river, N.S., \$33,750; River de Loup, \$15,000; Lac river, \$15,000.

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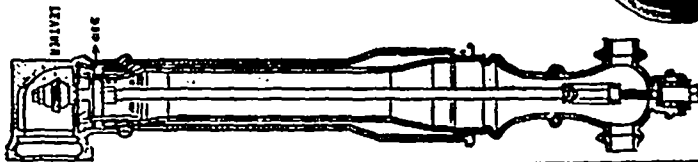
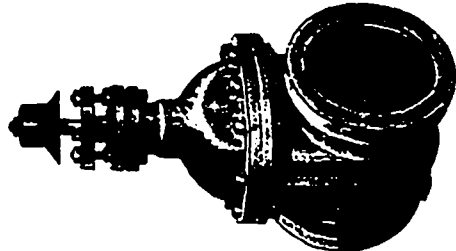
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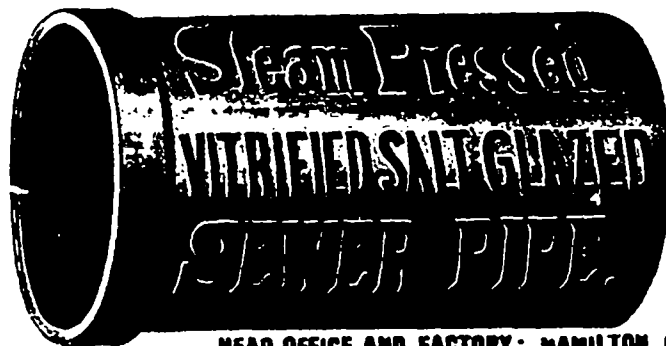
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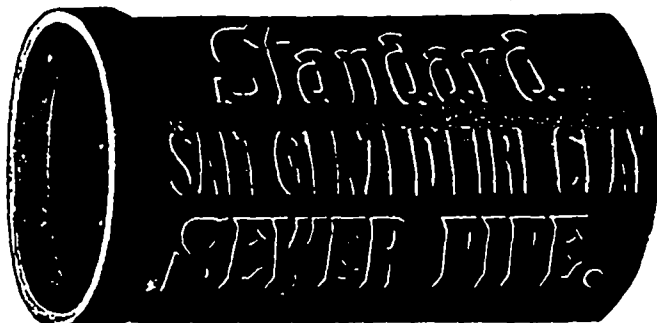
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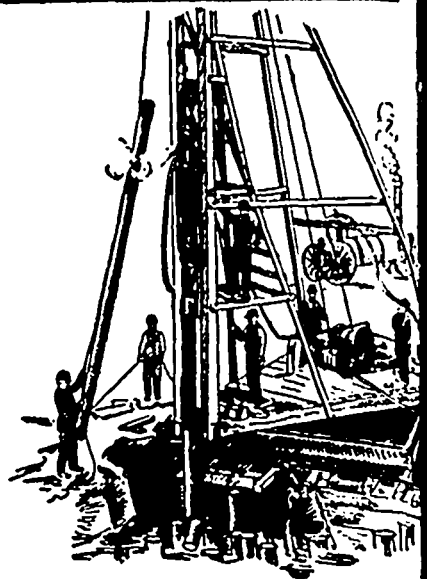
the United States with the use of electricity for thawing out frozen water pipes. The Canadian experiments were made in Ottawa, Berlin and Chatham. Below are printed particulars of the methods pursued in the above mentioned cities, together with illustrations showing the apparatus employed:

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(To be Continued.)



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Rubble, per 30 M. car.....	5 00	
Ashlar, per cub. yd.....	2 00	
Dimension, per cub. ft.....	18	

SLATE.

	Toronto.	Montreal.
Roofing (per square).		
" red.....	17 50	20 00
" purple.....	8 50	10 00
" unslating green.....	8 50	7 00 8 00
" black.....	7 50	6 50
Terra Cotta Tile, per sq.....	20 00	25 00
Ornamental Black Slate Roofing.....	8 80	6 80

CEMENT, LIME, etc.

Portland Cement—			
German, per bl.....	2 90	3 10	2 55 2 65
London.....	2 95	3 00	2 25 2 45
Newcastle.....	2 70	3 10	1 95 2 10
" Joseph Bra Portland.....	3 05	3 25	2 75 2 80
" Dyckerhoff.....	3 05	3 25	2 75 2 80
English "Condor".....	2 95	3 10	2 65 2 60
English, artificial, per bbl.....	2 85	3 05	2 35 2 45
Belgian, natural, per bbl.....	2 50	2 75	2 00 2 20
Canadian, artificial.....	2 85	3 00	2 60 2 70
Roman.....			2 20 2 25
Superfine.....	5 25	5 25	5 75 5 75
" Karlsruhe.....	1 25	7 10	5 25 9 00
" Karlsruhe" (German).....	3 05	3 25	2 75 2 90
" German" (German).....	3 05	3 25	2 75 2 90
" Rooster" (Belgian).....			2 45 2 70
" Keystone" (Belgian).....			2 25 2 20
" Aysel" (Belgian).....			1 95 2 05
" Burham" (English).....	2 95	3 00	2 25 2 45
Hydraulic Cements—			
Quebec, per bbl.....	1 50	1 65	
Quebec, ".....	1 50	1 50 1 60	
Napanee, ".....	1 50	1 50	
Hull, ".....	1 50	1 50	
Ontario, ".....			1 25

	Toronto.	Montreal.
Keene's Coarse "Whites".....	5 50	6 00 5 00 5 00
Fire Bricks, Newcastle, per M	30 00	35 00 16 00 21 00
" Scotch.....		30 00 35 00 19 00 21 00
Lime, 100 lb., Grey.....		25
" White.....		30
Plaster, Calcined, N. B.....		2 00 1 00
" N. S.....		2 00 1 00
Hair, Plasterers', per bag.....	80	1 00

HARDWARE.

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

Cut nails, 50d & 60d, per keg	2 25
Steel " " " "	2 25
CUT NAILS, FENCE AND CUT SPIKES.	
40d, 1/2 cut, per 100 lbs.....	2 15
10 to 12d, hot cut.....	2 25
8d, 9d, " ".....	2 30
6d, 7d, " ".....	2 45
4d to 5d, " ".....	2 55
3d, " ".....	2 80
2d, " ".....	3 15
Cut spikes, 10 cents per keg advance.	
Steel Nails, 10 c. per keg extra.	
Wire nails, 2.75 base price.	

Iron Pipe:

Iron pipe, 1/2 inch, per foot.....	6c.
" " 3/4 " ".....	7
" " 1 " ".....	8 1/2
" " 1 1/4 " ".....	12
" " 1 1/2 " ".....	17
" " 2 " ".....	24
" " 2 1/2 " ".....	30
" " 3 " ".....	43
Toronto, 65 per cent. discount.	
Montreal, 70 per cent. discount.	

Lead Pipe:

Lead pipe, per lb.....	7c.
Waste pipe, per lb.....	7 1/2 cent.

Galvanized Iron:

Adam's—Mar's Best and Queen's Head and Opole:	
16 to 24 gauge, per lb.....	4 1/2 4 1/2
26 gauge, ".....	4 1/2 5
28 ".....	5 5 1/2
Gordon Crown—	
16 to 24 gauge, per lb.....	4 1/2 4 1/2
26 gauge, ".....	4 1/2 4 1/2
28 ".....	4 1/2 5
Note.—Cheaper grades about 1/2 c. per lb. less.	

Structural Iron:

Steel Beams, per 100 lbs.....	2 75
" channels, ".....	2 85
" angles, ".....	2 50
" tees, ".....	2 80
" plates, ".....	2 55
Sheared steel bridge plate.....	