

CANADIAN CONTRACT RECORD

A WEEKLY JOURNAL OF TENDERS AND INFORMATION

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.

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THE CANADIAN CONTRACT RECORD,

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TO CONTRACTORS, ETC.

TENDERS FOR NEW FIRE HALL

Tenders addressed to the undersigned will be received through registered post only up to noon on **TUESDAY, NOVEMBER 10th, 1903**, for the various works required in the erection and completion of

A NEW FIRE HALL

ON BERKELEY STREET.

Plans and specifications may be seen and all information, together with form of tender, obtained at the office of the Commissioner of Assessment and Property, City Hall, or at the office of the Architect, Mr. A. Frank Wickson, Bank of Commerce Building, Toronto.

Tenders must be accompanied by a marked cheque, payable to the order of the City Treasurer, or a cash deposit, equal to five per cent. on tenders up to \$1,000, and two and one-half per cent. on tenders over that amount.

Should any party whose tender is accepted fail to execute the necessary contract and bond, and give satisfactory security for the due fulfilment of the contract, the deposit accompanying the tender will be forfeited to the city. The lowest or any tender not necessarily accepted.

The deposits of unsuccessful tenderers will be returned.

THOMAS URQUHART (Mayor),
Chairman Board of Control,
City Hall, Toronto, Oct. 28th, 1903.

Robt. Braiden, tinsmith, Melita, Man., has been succeeded by Braiden & Stacey.

Paradis & Paradis, masonry contractors, Montreal, have registered partnership.

CONTRACTS OPEN.

SAND POINT, ONT.—John Brandon intends building a residence.

CANNINGTON, ONT.—Fred Brandon is about to build a residence.

HARROW, ONT.—Alex. Brimmer is preparing to build a fine residence.

MORRIS, MAN.—The Canadian Elevator Co. will build a planing mill here.

BRIDGEBURG, ONT.—It is the intention of William McCosh to build a residence.

ST. LOUIS, QUE.—The erection of a city hall, to cost \$30,000, will be proceeded with.

MONCTON, N.B.—The New Brunswick Petroleum Co. will immediately construct a small refinery.

STRATHCONA, N.W.T.—It is stated that W. J. Finlay & Co. will not rebuild their paper mill.

MOOSE JAW, N.W.T.—A joint stock company has been formed to build a skating and curling rink.

LAMBTON, ONT.—It is said that the Stark Electrical Co. intend building a power house here, 75x100 feet.

SEAFORTH, ONT.—The Robert Bell Engine Company will build an addition to their shops, 125 x 60 feet.

DAUPHIN, MAN.—The town offers to give franchises for installation of electric lighting and telephone systems.

EAST TORONTO, ONT.—P. S. Gibson, engineer, is preparing plans for the proposed new Main street bridge.

BRUSSELS, ONT.—Thuel Bros. have purchased the old Somerset property and will likely erect a residence.

WELLESLEY, ONT.—John F. Schmidt purposes erecting a residence, and F. Bivour has commenced work on a new store.

NIAGARA FALLS, ONT.—The Clifton Natural Gas Co. has been organized here, to supply the town with natural gas.

ST. CATHARINES, ONT.—Plans are being prepared for the reconstruction of Ridley College, at an approximate cost of \$75,000.

OWEN SOUND, ONT.—It is said that the Sun Portland Cement Company purpose making extensive changes to their plant.

PETERBOROUGH, ONT.—The Peterborough Cold Storage & Provision Co. have decided to establish a large plant in this town.

SMITH'S FALLS, ONT.—W. H. Code has purchased property on the south shore of Rideau lake on which he will build next spring.

ST. THOMAS, ONT.—The engineers of the Wabash Railway have been

making surveys for a site for workshops to be built in this city.

SAULT STE. MARIE, ONT.—The Dominion government is asking for tenders up to November 11th for dredging on the Soo canal.

DEPOT HARBOR, ONT.—The Canada Atlantic Railway Company are making arrangements for the erection of an additional elevator here.

QUEBEC, QUE.—Ouellet & Levesque, architects, are preparing plans for installation of Gothic altars in several churches in Nova Scotia.

BROCKVILLE, ONT.—The rate-payers have approved of a by-law to raise \$16,000 to assist in the rebuilding of the foundry of Cossitt Bros.

SHERBROOKE, QUE.—Tenders will shortly be invited for installation of machinery, for power plant at Westbury Basin for the corporation.

CHATHAM, ONT.—J. L. Wilson & Sons, architects, are preparing plans for a brick residence for E.R. Mummy, of the 13th concession, Raleigh.

PETROLEA, ONT.—C. A. Jones, township engineer, will receive tenders up to the 7th inst. for construction of a drain in Enniskillen township.

DUNDAS, ONT.—A by-law to loan \$10,000 to the Empire Carpet Co., of St. Catharines, to establish a factory here was carried by a large majority.

TORONTO JUNCTION, ONT.—Gordon Marr has commenced excavating for a brick residence on Keele street south, and D. Boucher is about to build on Willoughby avenue.

NEW WESTMINSTER, B.C.—R. H. Moore, of Owen Sound, Ont., is said to be considering the establishment of a cannery at this place.—Small & Buckler have decided to erect a saw mill here.

ST. MARYS, ONT.—The directors of the St. Marys Portland Cement Co. have submitted to the town council a proposition regarding the establishment of the proposed plant within the town limits.

BRANTFORD, ONT.—It is reported that the Toronto, Hamilton & Buffalo Railway Co. have decided to build from Brantford to Woodstock, twenty-five miles, at an approximate cost of \$1,000,000.

WIARTON, ONT.—Bids received by W. J. Ferguson, town clerk, up to November 9th for \$18,000 30 year water-works debentures and \$8,000 twenty year local improvement debentures, all 4 per cent.

FORT WILLIAM, ONT.—A deputation from this place has urged the Dominion government to proceed at once with the dredging of the Mission river.—Mayor Dyke will build an addition to his store.

SYDNEY MINES, N. S.—Representatives of the Warren Bituminous Paving Co. have submitted to the town council plans for water and sewerage systems at this place.

BOWMANVILLE, ONT.—A meeting of the representatives of the various towns was held here last week for the purpose of discussing railway facilities. It was decided to ask the C.P.R. to build a branch line.

RENFREW, ONT.—The ratepayers will vote on a by-law on November 2nd to raise \$88,300 by way of a loan for purpose of acquiring the plant and water power of the Renfrew Electric Co. and the Renfrew Power Co.

GALT, ONT.—It is stated that the Grand Valley Railway Co. will build their power house and car barns in this city. J. S. Clark is interested.—Clark & Demill contemplate the erection of a second addition to their factory.

ALMONTE, ONT.—The council have decided to postpone until next spring the proposed improvements to the water tower for electrical purposes.—The railway bridge at this place is to be replaced by a new structure.

RICHMOND, QUE.—Tobin & McCrea have received the engineer's report on the water power on the St. Francis river, near Ulverton, which is favorable, and it is probable that steps will be taken at once to develop the power.

LONDON, ONT.—Matthews & Murray, architects, are preparing plans for a new residence to be built on Oxford street for John Moore, also for new store front for Anderson & Nelles, druggists, and alterations to Somerset Hall above the store.

HALIFAX, N.S.—It is proposed to build a new library building in memory of the late Prof. McDonald. All but \$2,000 of the required amount has been subscribed.—It is proposed to construct a trunk sewer across the Common, at a cost of \$33,500.

SYDNEY, N. S.—The Dominion Iron & Steel Co. want tenders by noon of December 15th for quarrying, crushing and delivering 1,000,000 vessels 20" x 400,000 tons of limestone per year, to be taken from the quarries at Marble Mountain.

WINDSOR, ONT.—By-laws were carried last week to raise \$50,000 for granolithic walks and \$13,000 to convert the Central school building into a city hall.—Plans have been completed for the new buildings for the Standard Paint & Varnish Co.

LARDOISE, N.S.—The Dominion Government will receive tenders up to November 20th for extension to break-water here. Cheque for \$2,000 to accompany each tender. Plans at office of C. E. W. Dodwell, Halifax, and E. D. Millidge, Antigonish.

BERLIN, ONT.—At a recent meeting of the county council it was stated that there were at least twenty bridges in the county that will have to be replaced by new structures.—The Public School Board have decided to install a low pressure steam heating system in the Margaret avenue school.

REGINA, N. W. T.—Plans and specifications for waterworks and electric lighting, etc., have been completed by John Galt, consulting engineer, of Toronto. It is the intention to advertise for tenders for part of the proposed work without delay and construct the gravitation supply pipe line during the coming winter.

ST. BONIFACE, MAN.—Work has been commenced upon the excavation for Crown storage elevator and cleaning plant which will be the largest in the province, and will cost \$150,000. In addition to

the main building the company will construct storage bins with a capacity of 2,000,000 bushels, and there will be an engine house 42x50 feet.

BURK'S FALLS, ONT.—Dr. Bryce has approved of the quality of Reazin Lake water for public supply, but John Galt, the consulting engineer, in common with many citizens, desires an actual test made as to its unfailing supply. The system proposed is by gravitation, and another and much longer lake fed by visible springs is available at some extra cost.

VICTORIA, B.C.—Yates & Joy, solicitors, have deposited with the Minister of Public Works, plans for new wharves to be erected by Herbert E. Beckwith and John Raymond.—Brown & Cooper, fish and fruit merchants, have decided to erect a two-storey brick building on Government street, plans for which have been prepared by Mr. Hooper, architect.—A. Maxwell Muir has taken tenders on a frame residence to be built on Verrinder avenue.

HAMILTON, ONT.—It is announced that Whitney & Small have signed an agreement to lease a new theatre which it is proposed to build here.—It is reported that the Grand Trunk Railway is having plans prepared for an up-town station in this city.—The Pittsburg Steel Co. is said to be purchasing property with the view of establishing an immense steel plant here.—Peter Patterson is building two brick houses on Alanson street, to cost \$2,000.

ST. JOHN, N. B.—The new building for the F. B. Dunn Packing Co. on Lancaster street will be commenced immediately.—George Robertson, M. P. P., states that the Dominion government has approved of the plans of the dry

dock to be built here and that tenders will likely be invited in a short time.—Willard S. Mitchell has prepared plans for a rectory for Rev. A. W. Daniel, rector of St. Paul's Church, Rothesay. Same architect is preparing plans for a business block, with public hall, for Messrs. Harquail, of Campbellton.—G. E. Fairweather, architect, is taking tenders up to the 7th inst. for reconstruction of building at 60-62 Prince William street for the Canada Life Assurance Co.

VANCOUVER, B. C.—Plans for the proposed extension of the wharf of the Vancouver Engineering Works have been filed with the Department of Marine and Fisheries. The extension will be 500 feet in length.—J. B. Dorfmann, representing United States capitalists, has purchased several blocks of timber land in the northern part of the island and will build a large saw mill at Departure Bay.—The Mormon church, whose headquarters are in Salt Lake City, will probably build in this city.—Haywood & Prescott, of the Commercial Hotel, have purchased property at corner of Hastings and Abbott streets on which they intend to erect a mammoth hotel, for which Grant & Henderson, architects, are preparing the plans. The building will be brick and stone, four-storeys, 75x120 feet.

WINNIPEG, MAN.—E. & W. Maxwell, architects, of Montreal, are preparing the plans for the Canadian Pacific hotel and station to be built in this city, work on which will be commenced next spring.—Architect Hooper has prepared plans for new premises for E. W. Rugg.—A by-law has been prepared for submission to the ratepayers to raise \$400,000 to install a municipal gas plant.—Ald. Sharp has purchased another site at the

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MONTREAL

corner of Ellice avenue and Carleton street and will erect an apartment block thereon next spring.—Mr. Schwab, architect, has in hands plans for a three-storey apartment block to be built on Portage avenue, by A. H. Pulford, auctioneer.

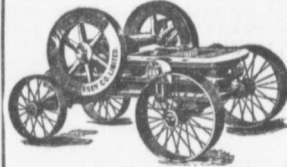
MONTREAL, QUE.—Dr. Richer, who has returned from the Trembling Mountain, states that the erection of a sanitarium will not be commenced this winter.—The Harbor Commissioners will apply to the Dominion Government for permission to construct a pier at Longue Pointe to cost about \$60,000.—John Brown & Son have prepared plans for four houses to be built on Tupper street by Hon. Senator Owens.—L. O. David, city clerk, wants tenders by 10th inst. for steam heating apparatus for the high level pumping station, McTavish street.—It is stated that negotiations have been closed for the transfer of property at corner of St. Catharine and Mountain streets belonging to the Prevost Estate to a syndicate that intends to erect a six-storey building, to be occupied by the Hamilton Departmental Store Co. and H. A. Wilder & Co.—E. & W. Maxwell, architects, have prepared plans for a new building to be built in Westmount for the Royal Bank of Canada.—The Sherwin-Williams Paint Co. have made application to the city for permission to construct a bridge across Atwater avenue.—The Bell Telephone Company are about to erect a five-storey extension to their building, at a cost of \$125,000.—Building permits have been granted as follows: Wm. Punt, 2-story bldg., Comte and Labelle streets, cost \$1,300; Wm. Strachan, 1-story bldg., St. Timothy street, cost \$1,800; R. Laver, 2-story bldg., Hotel-de-Ville street, \$2,000; The Ewart Co., 1-story bldg., Murray street, cost \$2,000; Christie, Brown & Co., 2-story bldg., St. Charles Borromeo street, cost \$1,200; C. H. Laurier, four 3-storey bldg., Mount Royal Ave., cost \$2,000 each; Corporation of Montreal, 1-story bldg., Frontenac street, cost \$11,775; Adelard Tremblay, 3-story bldg., Joliette and Ontario streets, cost \$2,500; L. Pasant, repairs to building on St. Catherine street, cost \$2,000; Corporation of Montreal, repairs to building, Frontenac street, cost \$3,120.—Ald. Eckers is advocating the building of a new pumping station.—Sewers are to be constructed on Duquette, Labelle and Seigneurs streets.

OTTAWA, ONT.—The Cornwall Paper Manufacturing Company have elected officers and will next year commence the erection of their mill, which will be located at the foot of Sheik's Island. M. P. Davis is interested.—The directors of St. Patrick's asylum are considering the question of increasing the accommodation by erecting a wing or a separate building.—H. M. Bate is building a brick tenement house on north side of Daly avenue, to cost \$8,000.—Arbitrators have been asked to decide as to the most suitable site for a new school building for sections 9 of Osgoode and 2 of Mountain townships.—C. Ogilvy has purchased the property of the Doran Estate, corner Rideau and Nicholas streets, and will probably build a large departmental store.—J. C. Glashen, school inspector, has recommended that additions be built to the public schools on Elgin, Archibald and Creighton streets.—The city of Ottawa and county of Carleton have applied to the Railway Committee of the Privy Council for an order directing construction of a bridge 150 feet in length to replace the earth embankment constituting the eastern approach of the railway bridge over the Rideau river at New Edinburgh.—J. R. Maclaren, architect, has prepared plans for a branch factory to be built in this city for the International Harvester Co.

TORONTO, ONT.—C. F. Wagner, architect, 28 Toronto street, desires tenders by 5th inst. for brickwork of a factory.—The trustees of Toronto University have appointed a committee, consisting of Dr. Hoskin, Chief Justice Moss, President Loudon, Byron E. Walker and C. S. Gzowski, to report upon the question of finances, site, etc., for erection of a convocation hall. The trustees are anxious to have the building started as soon as possible.—The Board of Control will receive tenders up to November 10th for the erection of a new fire hall on Berkeley street and for construction of sewers on Natalie street, from Logan avenue to Verral avenue, and on Don Esplanade, from a point 298 feet north of Eastern avenue to a point 140 feet south. Plans of fire hall may be seen at the office of the Assessment Commissioner, City Hall, and at the office of A. F. Wickson, architect, Bank of Commerce Building.—It is the intention of the Grand Trunk Railway to build a second freight shed next spring.—The trustees of Euclid Avenue Methodist Church expect to be able to wipe off the present standing debt at an early date, when they will come into the gift of \$25,000 from Mr. C. D. Massey towards the erection of a

new church.—A deputation recently waited upon the Minister of Education and urged the establishment in this city of a suitable art museum.—Building permits have been granted as follows: H. S. Mara, pair two-storey brick dwellings, south side of Shannon street, cost \$5,000;

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W. N. McEachren, three two-storey brick residences, east side Ossington avenue, cost \$3,700; R. I. Lightle, two-storey and attic brick dwelling, 26 Simpson avenue, cost \$2,300; John Heffering, two-storey and attic brick and rough-cast dwelling, 252 Broadview avenue, cost \$2,000; George Rossitor, two brick and rough-cast dwellings, 177 Pape avenue, cost \$1,800; Jarvis Concrete Co., one-storey addition to factory, Marlborough avenue, cost \$1,000; William Donaghue, two-storey brick dwelling, Montrose avenue, cost \$1,000; Thomas Butler, brick dwelling, 545 Euclid avenue, cost \$2,100; George Philips, five two and a half-storey brick and rough-cast dwellings, 451 to 459 Winchester street, cost \$7,500; Geo. Rathbone, pair brick dwellings, 175 and 177 Lansdowne avenue, cost \$3,000; York County Loan and Savings Co., brick and stone piano factory, west side of Sorauran avenue, cost \$5,500; W. J. Farmery, frame dwelling, east side Luety avenue, cost \$3,000; W. B. Ecclestone, pair brick and stone dwellings, Pearson avenue, cost \$4,000; Toronto Street Railway Co., brick storage battery and boiler room, corner Frederick and Front street, cost \$7,000; Mr. Alderson, Gladstone Hotel, two-storey and attic brick dwelling, 68 Cowan avenue, cost \$3,200; William E. Smyth, alterations to brick-cast dwellings, 234 and 236 Euclid avenue, cost \$1,000; Hancock Bros., brick and rough-cast dwelling, east side Dufferin street, near Bloor, cost \$2,000.—It is understood that Messrs. Ryrrie Bros. will erect a large addition to their store.

FIRES.

Retail store of T. Hatfield at Calgary, N.W.T., damaged to extent of \$10,000.—Three-storey brick building on St. Joseph street, Quebec, belonging to the Nadeau Estate, totally destroyed; loss on building and contents, \$60,000, well insured.—Convent of the Sacred Heart at Meteghan, N.S.—Arcola Hotel and implement warehouse of Cornell & Hetherington at Arcola, Man.; loss \$15,000.—Mann Block on Sandwich street, Windsor, Ont., badly damaged. The occupants were James Nelson & Bro., hardware, George Freeman, household goods, and George Lodge, grocer.

CONTRACTS AWARDED.

WATFORD, ONT.—Brick school on Concession, 6 Dawn; T. J. Hillis, contractor.

WINNIPEG, MAN.—Smallpox quarantine hospital; S. B. Ritchie, successful tenderer.

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COATICOOK, QUE.—Stone building for Eastern Townships Bank; T. T. Shurtleff, contractor.

SOURIS, P.E.I.—C. R. Rogers has secured the contract for heating new Roman Catholic church here.

DURHAM, ONT.—Ten thousand dollars town debentures; W. F. Dever & Co., Toronto, purchasers.

ALVINSTON, ONT.—New St. James church in Brooke township; D. J. McEachren, this place, contractor.

REGINA, N.W.T.—Implement warehouse for Massey-Harris Co., to cost \$12,000; A. R. Fleming, of Moosomin, contractor.

RENFREW, ONT.—Factory for Cumming Mfg. Co.; Renfrew Mfg. Co. and Fred Hilliard, contractors; price about \$14,500.

MATANE, QUE.—Enlargement and completion of interior of church; Ouellet & Levesque, architects, Quebec; J. B. Morin, Trois Pistoles, contractor; cost about \$30,000.

QUEBEC, QUE.—Residence on St. John street for O. Chateauvert; Masoney, O-car Cote; wood work, Ferdinand DeVarenes; plumbing, Jopin & Paquette.

LONDON, ONT.—Store front for John Martin, Talbot street; James Westell, contractor.—The city council have accepted the tender of the Dominion Securities Corporation, of Toronto, for \$50,000 of 4 per cent. debentures, at \$50,263.

TORONTO, ONT.—A. B. Ormsby & Co. are executing a \$40,000 job for the Locomotive Engine & Machine Co. at Longue Pointe, Que. The work calls for 300 skylights.—The Board of Control has just awarded the following contracts: Paving block pavement, Front street, Simcoe to John, \$15,480, Constructing &

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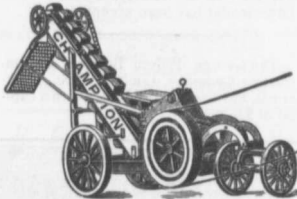
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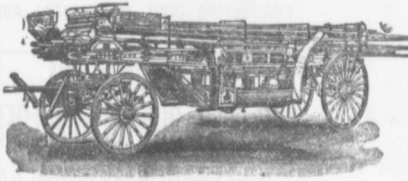
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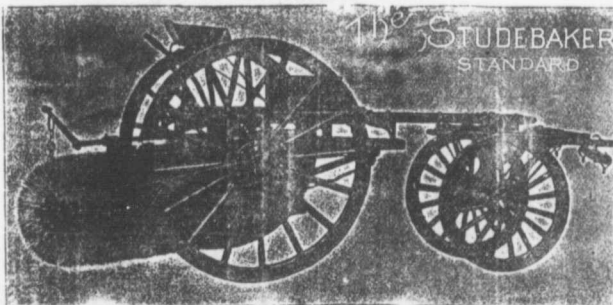
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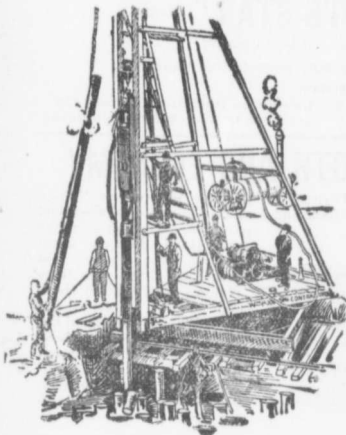
Paving Company; asphalt block pavement, Victoria street, King to Colborne, \$2,595; City Engineer; sewers, Hogarth avenue, Logan avenue to 642 feet 6 inches west, \$999; Victor avenue, Logan avenue to 145 feet east, \$245; J. H. McKnight; cement concrete sidewalks, King street, north side, Parliament to Power, \$1.80 per lineal foot; Berkeley street, east, King to Duke, \$1.27, to Crescent Paving Co. Wellesley street, north side, Homeward place to Sherbourne street, 95 cents; Elm avenue, south, Huntley to Sherbourne,

95 cents, Howard & Leach Co. St. Patrick, north, Huron to Spadina, 93 cents; Manning avenue, east, Harbord to Bloor, 78 cents; Wellington, south, John to Peter, 93 cents; Brock avenue, east, Middleton to Florence, 79 cents; Smith, south, 250 feet, 78 cents; Czar street, south, North street to Queen's Park road, 78 cents; Marion street, north, O'Hara to 135 feet west of West Lodge, 78 cents, to Toronto Contracting and Paving Company.

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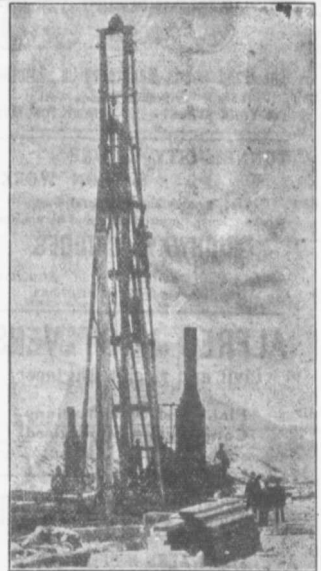
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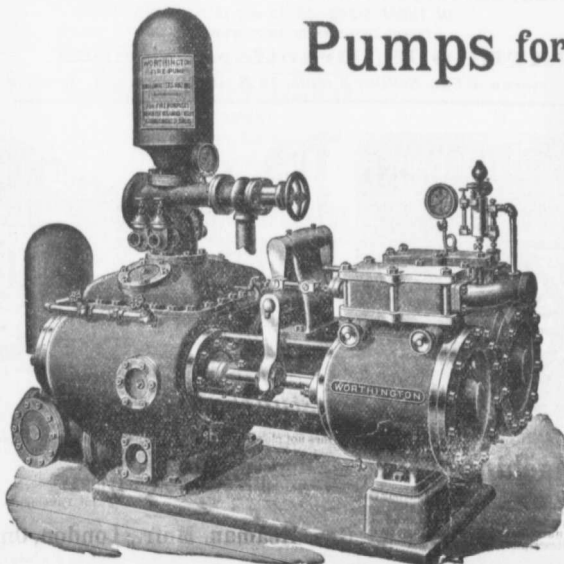
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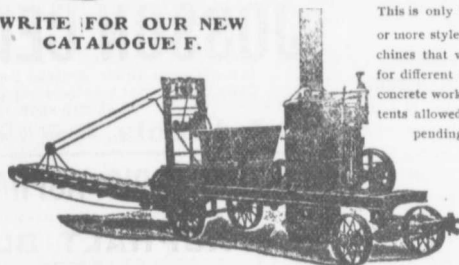
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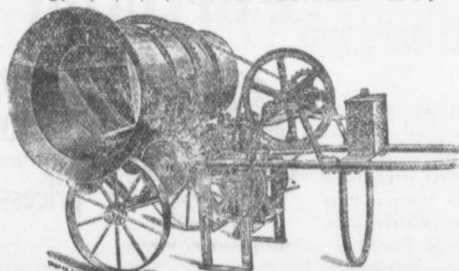
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SURTAX ON GERMAN CEMENTS.

The surtax on German goods imported into Canada went into effect on October 1st. As German manufacturers of cement have not yet made a reduction in price to offset the extra duty, it is expected that the importations of this article will show a decrease. There still exists in some quarters a prejudice in favor of the German product, but as the Canadian manufacturers have recently adopted improved methods of manufacture, the quality of cement made in this country is now equal to the imported article. As a result of the surtax, a greater quantity of the home product will likely be used in the future.

REAL ESTATE TRANSFERS.

The following transfers of real estate in Toronto have recently been registered:

Rassett ave., e.s., s. of No. 53.—Land Security Co. to Jos. A. Marlborough, 45 x 120; no improvements, sale price \$292.50.

Shaw street, w.s., n. of No. 690.—Farmers' Loan & Savings Co. to James T. Hunter, 25 x 121, being lot 106, plan D 198; no improvements, sale price, \$200.

Crawford street, e.s., n. of No. 569.—Chas. E. Hollinrake to Mary A. Cheyne, 25 x 116, being parts lots 22 and 23, plan 430, block E; no improvements, sale price \$25.

Markham street, e.s., corner Lennox street.—North American Land Co. to Walter Marks, 20.5 x 125, being part lot 159, plan 93; no improvements, sale price \$367.

Dupont street, n.s., w. of No. 206.—Charlotte Spears to Walter C. Miller, 16 x 125; no improvements, sale price \$320.

Northern Place, w.s., n. of No. 6.—Sophia McIntosh to George M. Gardiner, 45 x 65; no improvements, sale price \$1.

Northern Place, w.s., n. of No. 6.—George M. Gardiner to John C. Levi, same as preceding parcel, sale price \$1.
Dovercourt road, w.s., n. of No. 1064.—Eliza Foster to Adam Boyd, 90 x 132, being lots 27 and 28, block U, plan 622; no improvements, sale price \$600.

Spadina road, w.s., n. of No. 136.—Robert J. Moore to Wm. Murray, 50x12, being lot 186, plan 698; no improvements, sale price \$1,125.

Albany avenue, w.s., s. of No. 128.—Henry Glendenning to Sarah J. Graydon, 25x135; no improvements, sale price \$625.

Havelock street, w.s., n. of No. 110.—James L. Ross to Isabella Goodman, 50x137, being lot 191, plan 405; no improvements, sale price \$700.

Wright avenue, n.s., near No. 96.—Joseph S. Bentley to Geo. T. Lea, 35x132, no improvements, sale price \$385.

Ossington avenue, e.s., s. of No. 207.—Farmers' Loan Co. to George E. Boddy, 60x133; no improvements, sale price \$840.

W. V. Eastmere and H. S. Lightborn have registered as the Montreal Plate Glass & Mirror Company, manufacturers, Montreal.

TAPPING WATER MAINS.

Geo. E. Caldwell, representing the H. Mueller Mfg. Co., of Decatur, Ill., is giving exhibitions in Canada of their machine for tapping a water main and making a connection without the loss of any water or having to shut off the water. The method is somewhat new in Ontario, but is in general use throughout the U.S. Heretofore the plan has been to drill partially through the pipe and then drive in a brass nipple, but with the new method the machine is placed on the pipe, which is drilled clean through and then the drain

is tapped into it, after which the drill is withdrawn and a corporation cock is inserted, which allows closing off at the main. About twenty places in Ontario have adopted the machine, among which are Oitawa, Prescott, Brockville, Belleville, Toronto, Galt, Southampton and Mount Forest.

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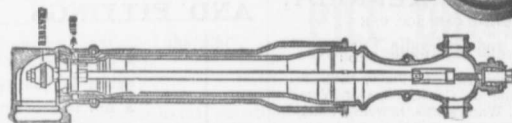
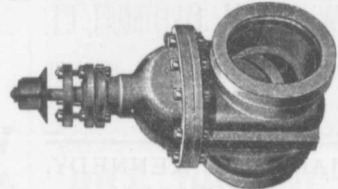
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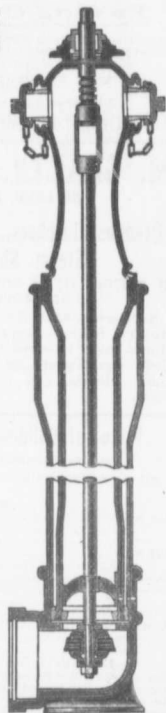
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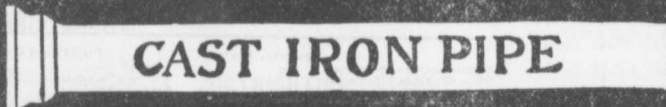
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