

CANADIAN CONTRACT RECORD

A WEEKLY JOURNAL OF THE CONSTRUCTION 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.

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JULY 10, 1901

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THE CANADIAN CONTRACT RECORD, PUBLISHED EVERY WEDNESDAY

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DATE OF PUBLICATION.

Architects, engineers, municipal authorities and others are reminded that the CONTRACT RECORD is printed every Tuesday afternoon, and that advertisements should reach the office of publication not later than 2 o'clock p.m. on that day to ensure insertion in the issue of the current week. Advertisements are frequently received too late for insertion, to avoid which special attention is directed to this announcement.

WANTED

Situation as Architectural Draughtsman, by a competent and experienced man.
Box 28, CONTRACT RECORD.

TOWN OF BERLIN.

Berlin Board of Works.

TO CONTRACTORS.

Tenders will be received by the undersigned up to noon on TUESDAY, 30th INST., for the construction of about 30,000 square feet Cement Sidewalk.

Specifications may be seen and forms of tender obtained at the office of the Town Clerk.
The lowest or any tender not necessarily accepted.

Signed CASPER BRAUN,
Chairman Board of Works.

TENDERS FOR BRIDGE

Sealed tenders addressed to the undersigned and endorsed "Tender for Bridge" will be received up to 10 o'clock a.m. on TUESDAY, THE 16th OF JULY, 1901, for the construction of a highway bridge of 47 feet span over the Douglas River on the boundary road between the Townships of Cavan and North Monaghan, near Springville.

Separate tenders will be required for the abutments in concrete and masonry, and for the steel superstructure.

Further particulars may be obtained at the office of Mr. John E. Belcher, C.E., County Engineer, where the plans and specifications may be seen.

The lowest or any tender not necessarily accepted.

R. P. WATT,
County Clerk,
Peterborough, P.O.

TO IRON BRIDGE AND "MASONRY" CONTRACTORS

Sealed tenders addressed to the undersigned and endorsed "Tender for Iron Work," or "Masonry," as the case may be, will be received by registered post only up to NOON OF FRIDAY, JULY 16th, 1901, for the IRON SUPERSTRUCTURE and MASONRY WORK required for the construction of a bridge 232 feet in length between abutments, to be built over the Mississippi River at Pakenham Village.

Plans and specifications may be seen and forms of tender procured at the office of Robert Surtees, C.E., 110 Wellington Street, Ottawa.

Satisfactory security will be required, and the Corporation of the Township of Pakenham do not bind themselves to accept the lowest or any tender.

JAMES CONNERY,
Township Clerk
Pakenham P.O.

Pakenham P.O., July 2nd, 1901.



Sealed Tenders addressed to the undersigned, and endorsed "Tender for Iron Superstructure, Battleford Bridge," will be received at this office until FRIDAY, 19th JULY, inclusively, for the construction of an iron superstructure for the Bridge over the Battle River at Battleford, N.W.T., according to a plan and specification to be seen at the offices of H. A. Gray, Esq., Resident Engineer, Confederation Life Building, Toronto; Zeph. Malhot, Esq., Resident Engineer, Winnipeg, Man.; C. Desjardins, Esq., Post-Office, Montreal; and on application to the Postmasters at Hamilton, Ont., and Battleford, N.W.T., also at the Department of Public Works, Ottawa.

Tenders will not be considered unless made on the form supplied, and signed with the actual signatures of tenderers.

An accepted cheque on a chartered bank payable to the order of the Minister of Public Works, for three thousand dollars (\$3,000.00) must accompany each tender. The cheque will be forfeited if the party declines the contract or fails to complete the work contracted for, and will be returned in case of non-acceptance of tender.

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

By order

FRED. GELINAS,
Secretary.
Department of Public Works,
Ottawa, June 22nd, 1901.

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

WANTED

First class Architectural Draughtsman immediately.
H. C. McBRIDE
Architect,
London, Ont.

TENDERS

For the erection of Brick Factory and Warehouse to be situated at Wellington Place, Toronto for the Pure Gold Manufaturing Company, Limited.

Tenders close JULY 17th, AT NOON.
Plans and specifications may be seen and all information obtained at the office of the architect A. R. Denison, 20 King Street, West.

TENDERS WANTED.

Tenders will be received up till JULY 25th, for the laying of 6,000 feet of Cement Concrete Sidewalks in the village of Iroquois, to be laid in accordance as nearly as may be, with specifications in report of Commissioner of Highways, 1900, page 35

A. HARKNESS
Receve.

Iroquois July 2nd, 1901.

TENDERS WANTED

Sealed Tenders will be received by the undersigned up to two o'clock p.m. on TUESDAY, THE 16th DAY OF JULY NEXT, for the construction of a Municipal Drain about 29,100 feet in length in the Township of Minto, and designated on the engineer's plan as Drain No. 1. Plans, specifications and profile may be seen at any time at the office of the undersigned in the Town of Harriston. Satisfactory security will be required for the due fulfilment of the contract. The lowest or any tender not necessarily accepted.

W. D. McLELLAN,
Clerk of Minto.

Harriston, Ont., June 27th, 1901.

Tenders Wanted

Tenders are asked for erection of Brick Church at Ventry, Ont.

Contractors may tender for the entire work, except certain parts to be done, and certain materials supplied by Committee, or separate tenders for each part of the work.

Plans and specifications may be seen at the office of Gregg & Gregg, architects, 94 King Street West Toronto or at my house, Dundalk.

Tenders to be sent to me not later than AUGUST 20th, 1901.

The lowest or any tender not necessarily accepted.

REV. JAMES BUCHANAN,
Dundalk, Ont., June 29th, 1901.

Orillia COLLEGIATE INSTITUTE BOARD

TENDERS WANTED

Sealed tenders will be received by E. A. Doolittle Esq., Secretary Treasurer of the Board until MONDAY NOON, JULY 2nd, for the construction of Cement Concrete Sidewalks and Tile Drainage at the Orillia Collegiate Institute. Plans and specifications may be seen and all information obtained at the office of W. H. Croker, Esq., architect, Orillia.

The lowest or any tender not necessarily accepted.

E. A. DOOLITTLE,
Secretary-Treasurer.

CONTRACTS OPEN.

HUNTSVILLE, ONT.—A steel swing bridge will likely be built here.

LONGUEIL, QUE.—A new wing will be added to the Catholic convent.

KINGSVILLE, ONT.—Mr. W. Light, of Maidstone, will build a residence here.

PENETANGUISHENE, ONT.—Work on post office has not yet been let, owing to some changes.

CHIPPEWA, ONT.—The electors have voted in favor of raising \$4,000 for putting down permanent sidewalks.

BROCKVILLE, ONT.—R. Dillon, architect, has completed plans for the new wing to the general hospital.

SYDNEY, N.S.—D. M. Currie, municipal clerk, invites offers up to July 16th for purchase of \$70,000 debentures.

HINTONBURG, ONT.—The question of building an addition to the public school will be considered at an early date.

KINGSCOURT, ONT.—John McCormick, reeve, invites tenders up to 20th inst., for repairing the Campbell drain.

ST. MARY'S, ONT.—The by-law to provide funds for waterworks and electric light extension was voted down last week.

NAPIER, ONT.—Tenders for building a school house in S.S. No. 1, Brook, are invited by William Brown up to 27th inst.

PHOENIX, B.C.—Mayor Rumberger is negotiating for the purchase of \$15,000 town debentures, issued for street improvements.

COOKSHIRE, QUE.—The electors last week carried the by-law to borrow \$40,000 for waterworks and sewerage systems.

GALT, ONT.—The by-law to raise \$4,000 for waterworks extensions was carried last week, but the parks by-law was defeated.

CHATHAM, ONT.—J. L. Wilson & Son, architects, are preparing plans for a brick residence for Thomas Glasgow, of Tupperville.

PAISLEY, ONT.—By-laws to assist the establishment of a carpet factory and bicycle and brass works were carried here last week.

ENNISKILLEN, ONT.—The engineer has reported to Brooke council that the proposed outlet to the Parker-Lucas drain will cost \$3,173.

ST. THOMAS, ONT.—N. R. Darrach, architect, is asking for tenders up to 13th inst. for remodelling school house in S. S. No. 18, Yarmouth.

AYLMER, QUE.—M. C. Edey, of Ottawa, has prepared plans and is about to invite tenders for re-modelling the school building here at a cost of \$2,500.

DE LORIMIER, QUE.—The council has decided to build a new town hall and fire and police station, to cost \$15,000. Plans for same have been prepared by Burnard & Paris.

RENFREW, ONT.—The Renfrew Power Co., at a meeting last week, decided to advertise for tenders for construction of dams, etc., for the development of the Bennechere water power.

MALLORYTOWN, ONT.—Tenders are asked by John F. Kelly up to July 21st for repairing the stone work of the King's bridge between Mallorytown and Brockville.

SOREL, QUE.—The Richelieu & Ontario Navigation Co. have decided to proceed with the construction of a marine railway at this place to facilitate the repair of the company's fleet; estimated cost, \$100,000.

WINCHESTER, ONT.—The county council has requested the Dominion Government to grant \$4,000 towards the River Beauvette drainage work.—The council intends to construct a granolithic sidewalk on St. Lawrence street.

BRANTFORD, ONT.—Tenders are asked up to 15th inst. for construction of dyke and two breakwaters along the river road. Plans at the office of John

Fair, township engineer.—The trustees of S.S. No. 2 are about to build a new school house.

DELORAINÉ, MAN.—D. L. Livingstone is asking for tenders up to July 20th for erection of six room school building, brick, two storeys, stone basement.

MONCTON, N.B.—The general manager of the Intercolonial railway states that it is the intention to build a number of new sidings to accommodate the increasing traffic.

FREDERICTON, N. B.—Extensive improvements are about to be made at the University building, including the building of a stone, brick and cement reservoir back of the college and the installation of hot water heating in the residence and hot air heating in the college.

WALLACEBURG, ONT.—A meeting of the Wallaceburg Beet Sugar Co. was held here last week when a committee was appointed to select a site and arrange for the building of the necessary works. D. A. Gordon, of Steinhoff & Co., is president of the company.

PETERBOROUGH, ONT.—R. P. Watt, county clerk, invites tenders up to 16th inst. for construction of a highway bridge of 47 ft. span over the Douglas river, on boundary line between the townships of Cavan and north Monaghan. Separate tenders for abutments and steel superstructure.

KINGSTON, ONT.—The Canadian North American Astronomical Association contemplate erecting an astronomical observatory about seven miles from Alexandria Bay on the Canadian side of the St. Lawrence river.—E. Storey, architect, is preparing plans for alterations to J. Barrow's residence on King street.

SAULT STE. MARIE, ONT.—A by-law has been passed in council to raise 25,100 for purchase of site and erection of public school.—C. J. Pime, town clerk, will receive tenders until noon of the 12th inst., for the purchase of \$60,000 worth of thirty year debentures, bearing interest at 4 per cent. per annum, payable half-yearly.

HAMILTON, ONT.—Wm. & Walter Stewart, architects, have prepared plans for residence for J. B. Turner, of the Collegiate Institute, to cost \$1,500, and for a residence for John McCoy, inspector for the Hamilton Provident & Loan Society.—P. C. Walsh is preparing to build a residence on West Avenue north.—E. B. Patterson, architect has been granted a permit for a brick dwelling on West avenue, to cost \$1,650.

LONDON, ONT.—Plans for the proposed addition to the public library have completed; estimated cost \$3,350.—The plans for seating the new opera house provide for 565 seats in the auditorium, 481 in the balcony, and benches in the gallery to seat 600.—C. C. Turner, of 506 Horton street, is building a two story brick residence on north side of King street.—Moore & Henry, architects, are calling for tenders for new Catholic church on Lyle street.

VICTORIA, B.C.—It is said that the Douglas' estate contemplate erecting a large hotel facing Belleville street.—The city invites tenders up to August 5th for the purchase of \$268,500 4 per cent. half-yearly debentures.—The four by-laws sub-

mitted to the rate-payers last week were carried. They provide \$75,000 for new Point Ellice bridge, \$30,000 for high school, \$150,000 to re-claim James Bay mud flats, and \$27,000 for Government street paving loan.—Dredging machinery will be required for re-claiming James Bay flat. Competitive plans will be invited for the new high school.—The city invites tenders for the purchase of debentures to the amount of \$268,500. Of these \$155,000 will run for fifty years, the balance for ten years, interest at 4 per cent.—The rate-payers have sanctioned by-laws authorizing a loan of \$282,000 for various works of public improvement.

OTTAWA, ONT.—McLeod Stewart states that plans are nearing completion for the new hotel to be built at the bridges. The structure is expected to cost over half a million dollars, and to be commenced early in August.—The council have definitely decided upon the Wurtemberg site for the contagious diseases hospital.—Steps are being taken towards preventing the floods on the Rideau river. It is proposed to build a dyke, as suggested by the city engineer, at a cost of \$21,000.—The city is about to issue \$72,000 debentures.

VANCOUVER, B.C.—The British Columbia Electric Railway Co. will spend \$100,000 for improvements to their system in this city. They will build a large warehouse at the corner of Store and Pembroke streets, at cost of \$20,000, will lay a new double track on Birdcage walk at a cost of \$30,000, and will build a line to the Gorge, a distance of three miles at cost of \$35,000.—The citizens at a recent public meeting passed a resolution to raise \$25,000 to purchase a site for a new hospital.—The authorities of St. Paul's hospital will make a large addition to the building for which plans are now being prepared.

TORONTO, ONT.—Prof. Galbraith, principal of the School of Practical Science, and F. R. Heakes, chief architect, of the Ontario Public Works Department have returned from the Eastern States, where they secured information to be used in connection with the erection of the new University Science building. It is officially stated that plans for the building will be prepared at once.—The rumor is again revived that the large tract of vacant land opposite the school on Don Mills road will be converted into a mile race course.—The Broadview Battalion of the Boys' Brigade are making good progress toward securing funds for the erection of a building in the east end exclusively for boys' work.—At the last meeting of the Separate School Board the Finance Committee was instructed to report how funds could be raised for building a new school on Close avenue, Parkdale.—The city has given notice of its intention to construct the following works: Macadam roadway on Hayden street, Yonge to Church, cost \$3,160; asphalt pavement, on Euclid avenue, Ulster to Bloor, cost \$17,130 and on Parliament street, Gerrard to Carleton, cost \$9,540; also several concrete sidewalks.—The city engineer has recommended that \$12,000 be provided for reconstructing the track allowance pavement on the following streets: Bloor, College, Carlton, Gerrard, Winchester, Dundas, Queen, King, Front, Seaton, Dovercourt, Ossington, Bathurst, Spadina, McCaul, Avenue Road, York, Yonge, Church, Sherbourne, Parliament, Broadview, Duf-

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ferin. He has also recommended the construction of the following works: Asphalt pavements, College street, Spadina to Bathurst, \$37,600; Adelaide street, Jarvis to Church, \$8,175; lane south of King street, west from Church, 218 feet, \$1,425; macadam roadways, Sheridan avenue, \$7,510; Crescent road, \$10,020; Wellesley street, \$6,020; Park road, \$4,670; South drive, \$1,390; Logan avenue, \$8,395; Walton street, \$2,470; Glen road, \$3,115; Cherry avenue, \$3,090; Balmuto street, \$2,820; Scarth road, \$1,795; Simcoe street, Queen to Caer Howell, \$13,300; Scarth road, Crescent road to Roxborough street, \$1,550; Glen road, Maple to Elm avenue, \$1,795; Balmuto street, Bloor to Czar, \$2,820; Logan avenue, for 212 feet south of Queen street, \$8,395; Walton street, Yonge to Elizabeth, \$2,470; Glen road, from the bridge to Maple avenue, \$3,115; Cluny avenue, Crescent to Rosedale road, \$3,780; cedar block pavements, Empress crescent, Jameson to Dowling avenue, \$3,445; Marion street, \$1,130; water mains, Fife street, \$310; Clancy avenue, \$700; Prince Arthur avenue, \$456; Woodbine avenue, \$503; Beatrice street, \$340; sewer, Poucher street, \$1,140; concrete sidewalks, Bernard avenue, \$210; Wellesley street, \$246; Shuter street, \$534; Crescent road, \$150; Queen street west, \$620; Cameron street, \$640.—Building permits have been granted as follows: King Bros., five dwellings on Dovercourt road, near Dewson street, cost \$10,000; Thos. M. Lee, store and seven houses at Sumach and Gerrard streets, cost \$7,000, and two dwellings on Sackville street, near Gerrard, cost \$2,200; Albert Horton, residence on Crescent road, near Yonge street, cost \$5,000; A. J. and M. Cockburn, dwellings at 40 and 42 Delaware avenue, cost \$5,000; A. Wills, three houses on Osler street, cost \$3,000; S. G. Spence, dwelling at 27 Withrow avenue, cost \$1,600; R. T. Newton, brick dwelling, 31b Ossington avenue, cost \$2,000; Dr. Birchard, brick dwelling, 124 Jameson avenue, cost \$4,000; Mrs. M. W. Helliwell, alterations to 74 St. George street, cost \$4,000; R. S. Wickett, two residences, corner Isabella and Huntley streets, cost \$9,000; G. F. Warwick, two brick dwellings, Adelaide street west, near Peter street, cost \$3,000.—The National Portland Cement Co., limited, invite tenders for crushing 500 cords of limestone at Durham, Ont.

AMHERST, N. S.—The Atlantic Grind Stone Co. intend building a breakwater at Lower Cove, to cost \$3,000.

TERREBONNE, QUE.—On behalf of the corporation P. A. Seguin, secretary-treasurer, will receive tenders up to 12th inst. for construction of section of water-works system.

ST. JOHN, N. B.—H. H. Mott, architect, is this week taking tenders for addition to the county jail.—G. E. Fairweath, architect, invites tenders up to 12th inst. for frame building, with stone basement, on Waterloo street.

FREDERICTON, N. B.—The local government have approved of the contract with the Canada Railway & Coal Co. for the construction of a railway from Gibson to Chipman. Plant for coal mining at the Newcastle field will be in-

stalled simultaneously with the building of the railroad.

GLACE BAY, N. S.—Michael Macintosh, town clerk, invites tenders until the 20th inst., at noon, for the installation of an electric light plant, to consist of 50 arc lamps, and 2,000 incandescent lamps, together with necessary steam plant to operate same.

WINNIPEG, MAN.—The building of the new St. Matthews church, corner Sherbrooke and Ellice avenue, will shortly be commenced.—J. H. G. Russell, architect, has taken tenders for a brick and stone warehouse on Princess st. for W. D. Douglas, and a frame residence on stone foundation at Niverville, Man., for William Wallace.—Hospitals will be built this year at Sifton and Yorkton, N. W. T. A local syndicate has decided to erect a large abbatoir in the western part of the city, plans for which are now being drawn.—The building permits issued up to July 1st of this year total in value nearly \$1,000,000.—Plans of brick and stone school building to be built at Deloraine are on view at office of C. H. Wheeler, architect, this city.—Tenders close 11th inst. for construction of granolithic walk and sewers.—Tenders are asked by H. McCowan, architect, up to 11th inst. for erection of annex to the pork packing house of J. Y. Griffin & Co.—F. A. Palmer, architect, invites tenders up to 14th inst. from all trades for erection of brick church, corner Alexandre and Stanley street, for the Evangelical Association.—The new brick and stone

block to be built by G. F. and J. Galt will be 100 x 66 ft., four storeys and basement, cost \$30,000.

MONTREAL, QUE.—The harbor commissioners have passed a resolution that the government be requested to build its elevator at the east end at once, and that the commissioners build in the centre of the harbor an elevator of 1,000,000 bushels capacity to cost \$500,000, and another of smaller size at Windmill Point to cost \$400,000, also that \$50,000 be spent in providing floating elevators.—Building permits have been issued as follows: Mrs. G. Langlois, two and a half storey house, Laval ave., cost \$8,500, Joseph Sawyer, architect; Geo. H. Featherston, one storey store, 2,371 St. Catharine st., cost \$1,500; Hutchison & Wood, architects; J. Allan, two storey house, 189 Mane st., cost \$5,000, A. Findley, architect; Alex Hapuc, three storey house, McGregor st., cost \$6,000; E. Dussault, two storey house, Chalmers st., cost \$1,200; Mrs. A. Duperrault, two three storey houses, Peel street, cost \$5,000 each, Bernier & Giroux, architects; estate of the late Joseph Tassin, alterations, 226 St. James street, cost \$2,500; P. Desforges, two storey house, Laval avenue, cost \$8,000; P. Desforges, three storey house, Laval avenue, cost \$3,000; estate of the late R. T. Godfrey, three storey building, 683 Craig street, cost \$9,232; Chas. A. Prevost, four two storey houses, 73 to 97 Desmontigny street, cost \$1,200 each; Montreal Street Railway, one storey building, 160 Barre street, cost \$1,500;

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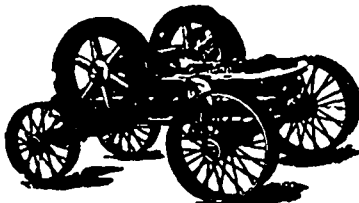
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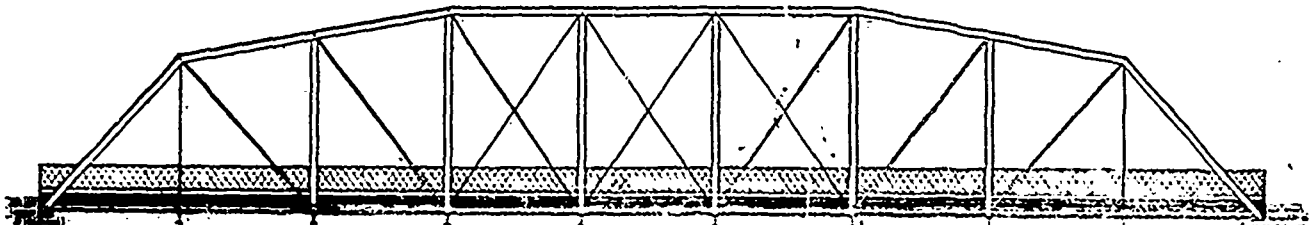
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estate of Judge Smith, four storey building, St. Paul and St. Peter streets, cost \$15,000; Hutchison & Wood, architects; Mrs. P. V. Lussier, alterations to a three storey building, 285 St. Paul street, cost \$5,000; Rochon & Fournier, two two and half storey houses, Panet street, cost \$1,175 each; W. E. Doran, architect. is calling for tenders for a store and dwelling, corner of Murray and Ottawa streets, for Thomas O'Connell.

FIRES.

Saw mill of Alfred Dickie at Lower Steviacke, N. S., totally destroyed; heavy loss.—Elevator at Indian Head, N. W. T., owned by Baker & Reid.—Dyer & Howard's planing mill at Exeter, Ont.; loss \$6,000, no insurance.—Fire at Cache Bay, Ont., on June 30th destroyed thirty buildings, including the public school and town hall. The loss is \$50,000.—D. Gagnon's planing mill and J. Carpenter's dwelling at Sturgeon Falls, Ont.; loss \$5,000.—Foundry of D. J. Barker & Co., at Picton, Ont., damaged to extent of \$2,000.—Cement factory of Jas. Morley & Co. at Longue Pointe, near Montreal, totally destroyed; loss \$30,000.—Residences at Pembroke, Ont.—owned by G. Delaney and C. Chapman.—The Jasper cheese factory, Irish Creek, destroyed on the 8th inst.; loss \$2,000, partly insured.

CONTRACTS AWARDED.

WOODSTOCK, N.E. — New county jail; Robert Maxwell, of St. John, successful tenderer.

VANCOUVER, B. C.—Boyd & Claden have secured the contract for the excavation, foundation, etc., for the provincial reformatory.

NELSON, B. C.—The corporation has disposed of \$100,000 worth of debentures to the Huron & Erie Loan & Savings Co., of London, Ont.

LISTOWEL, ONT.—For laying about 40,000 square feet of granolithic walks the tender of the Silica Barytic Stone Co., of Ingersoll, at 10½ cents per foot has been accepted.

PENETANGUISHENE, ONT.—The contracts for the brickwork, plastering, til-

ing, drainage, etc., for Jas. E. Nettleton: Store and dwelling, has been let to contractor Blanchard, and the wood-work of same building to Mr. Tessier.

PETERBOROUGH, ONT.—It is rumored that Bogue & McDermott have been awarded the contract for the excavation, concrete, masonry and brickwork of the American Cereal Co.'s building, and William Langford the contract for carpenter work.

HAMILTON, ONT.—The Leitch & Turnbull Co., of this city, are installing passenger elevators in the court house, Victoria, B.C., and in the Hotel Dieu hospital, Cornwall, and an electric passenger elevator and two hydraulic elevators for the Nasmith Co., Toronto.

LONDON, ONT.—The contract for alterations to Buildings on Talbot street for the Agricultural Savings & Loan Co. has been let to the following: Mason and brickwork Ed. Martyn; carpenter work, Tambling & Jones.—John Hayman & Sons have been awarded the contract for

new brick carriage factory on King street for John Campbell & Son.

VICTORIA, B.C.—Only two tenders were received by the city council for dynamo and 50 lamps for electric light plant. The tender of the Canadian General Electric Co., at \$3,100, has been accepted.—Mr. A. Crookshank, Chilliwack, is reported to have received the contract to construct a railway from Hucks' farm to Silicia creek, at the price of \$12,000.

HULL, QUE.—The following tenders were received for pumps and turbines for the new pumping station: Chaudiere Machine and Manufacturing Co., Ottawa, pumps and water wheels, \$20,460; Kerr Engine Co., Walkerville, \$25,897; Smart-Eby Machine Co., pumps alone, \$12,950; Northey Manufacturing Co., Toronto, \$24,840; Trump Manufacturing Company, pumps, \$11,900; J. McDougall, Montreal, \$25,727. The tender of J. McDougall has been accepted.

BROCKVILLE, ONT.—The James Smart Mfg. Co., of this city, have just

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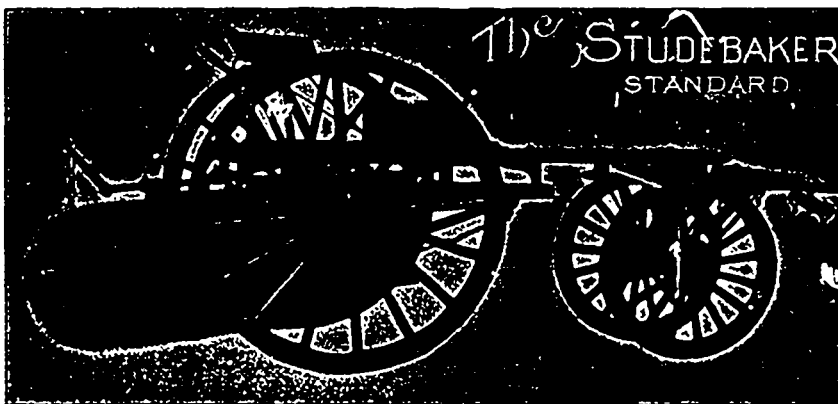
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Geo. Heaman, Mnfr., London, Ont.,

shipped two carloads of "Kelsey" warm air generators to Winnipeg, Man., and have an order for two No. 24 "kelseys" to be installed in a large building at Phoenix, B. C. The addition to Bonar Presbyterian church, Toronto, will be warmed with one No. 24 Kelsey. Same firm have secured contracts for generators to be installed at Sault Ste. Marie and Gore Bay, Ont.

TORONTO, ONT.—The separate school board has let the contract for new four room school, corner King street and Close avenue, to William Clarke, at \$8,648.—For building two rooms at Sacred Heart school the following tenders have been accepted: Wm. Keane, mason and brick-work, \$2,390; Madden Bros, carpenter work, \$1,583; James Hall, roofing, \$225; J. Boyce & Son, plastering, \$227; Toronto Furnace Co., plumbing, \$246; R. Bigley, furnace, \$225; J. W. Moran, painting, \$133.

SAULT ST. MARIE, ONT.—Tenders for sewerage works were opened last week by the council as follows: King & Steele, Duluth, section A, \$37,275, section B, \$25,198; J. H. McKnight, Toronto, section A, \$33,000, section B, \$18,000; A and B \$51,500; Thos. McCoy, Duluth, section A, \$35,500, section B, \$19,500; M. McCarthy, section A, \$24,495. The tender of M. McCarthy for section A, and that of J. H. McKnight for section B have been accepted. Willis Chipman, of Toronto, is consulting engineer.

OTTAWA, ONT.—The following tenders have been accepted by the School Board for addition to Creighton street school: Alex. Garvoek, brick and stone work, \$1,450; Christie & McCready, carpenter work, \$2,675; W. R. Williamson, plastering, \$363; W. J. Carson, painting and glazing, \$415; McKinley and Northwood, plumbing, \$155; McKinley & Northwood, heating and ventilation, \$731; Wadsworth & Sheppard, galvanized iron work, \$325.—For heating the Bolton street school the tender of May &

McWhinney has been accepted, and for metal ceilings at Kent street school the successful tenderer is McKinley & Northwood.—The tender of Currier & Co., for desks, etc., for the public school, has been recommended for acceptance.—The contract for the erection of a new bridge over Cody's creek, between Fitzroy and Huntlev, has been let to L. A. Sims.

In building a surface-water drain for Goldsmith Brook, in West Roxbury, Boston, a bed of quicksand was encountered 60 feet below the grade of the conduit, and borings showed no stratum of gravel through which water could be pumped in order to dry out the quicksand. Tubular wells were sunk 20 to 25 feet below grade, surrounded by gravel, through which the water from the quicksand filtered to the well. The method adopted to accomplish this was first to sink a 10-inch pipe by means of a water-jet, then to place inside of it a 2½-inch pipe, perforated for about 5 feet at the bottom. This smaller pipe extended down at the bottom of the large pipe. The space between was then filled

with coarse sand and the large exterior pipe withdrawn, leaving the perforated pipe surrounded with coarse sand. The water which filtered through was then pumped from the 2½-inch pipe by means of a steam ejector nozzle, placed at the bottom of the well, connected with a still smaller pipe in the interior of the 2½-inch pipe.

ARTESIAN WELL BORING.

The great value of artesian boring in Central Australia has just been proved by the successful result of operations at Anacoora, about fifty miles east of Charlotte Waters. After boring to a depth of 1,250 feet a daily supply of 700,000 gallons of water has been obtained, and a dry district has been transformed into an oasis. There is now a lake about half a mile long and a quarter of a mile wide at Anacoora. In consequence of the great success of this bore the Government is inviting tenders for the sinking of another about thirty miles to the north-east, where the prospects are especially favorable, except that it is likely that the bore will be a little deeper.



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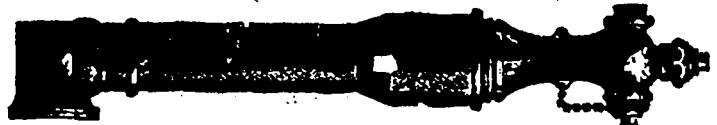
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WHITE LEAD PROHIBITED IN FRANCE.

Recently the Conseil Supérieur d'Hygiène, by an order of M. Waldeck-Rousseau, Minister of the Interior, and the Commission d'Hygiène Industrielle, by an order of M. Millerand, Minister of Commerce, have been studying the means, in the interests of the corporation of painters in buildings, to remedy the danger resulting from the use of white lead in paints. The use of zinc, which is reputed to be inoffensive, is recommended as a substitute. M. Waldeck-Rousseau promises to ratify the decision of the Conseil Supérieur, and no doubt its advice will serve as a basis for a law regulating the use of white lead in private enterprise. Of course the municipalities in France will have something to say on the question, as they reckon among their administrators a great number of painters of buildings. The municipality of Lyons has taken the initiative, however, in prescribing zinc to replace the white lead in the contracts for painting to be executed for the municipality. Bourges, Issoudun, Vierzon, Saint-Martin, Saint-Florent, (Cher) have followed suit.

T. HATCHED ROOFS NOT ALLOWABLE.

Thatched roofs have been adopted for some modern English country houses. Dexterous thatchers are not to be found everywhere, and in consequence roofs are to be seen which have a looseness that was not characteristic of the work that was executed prior to the modern revival. In Scotland the authorities are not in favor of thatched roofs. By the Burgh Police Act of 1892 non-combustible roofs are alone legal. Hitherto it was believed that the clause relating to thatching was applicable only to new buildings. A case has arisen in Kilmarnock which suggests that the Act is retrospective. An owner of three cottages was ordered to have them covered with a non-combustible roof within six months, and as he did not comply he was fined. The owner appealed, and contended that the Act was not applicable to buildings like his cottages, which had been in existence for several years and in which no alteration was made. The sheriff dismissed the appeal, and it may therefore be assumed that thatch, however picturesque, is doomed to be supplanted by slates.

STEEL CASING A LIGHTHOUSE.

An ingenious use of steel plates has been made at a lighthouse at Grande Pointe au Sable in Michigan. The lighthouse, which is about 80 feet high, is formed of brick, with a stone base. It was erected in 1867, but almost from its completion it has suffered from the violent rain storms of the district. For a long time pointing was undertaken regularly, but at length it was determined to encase the lighthouse with metal. The bent plates used varied from 5-16 of an inch to 3-16 inch in thickness, and they were united by means of angle bars. As a further precaution, a space was allowed between the brickwork and the metal-work, which was filled in with concrete. The work was carried out by Mr. E. I. WOODRUFF, and the total cost has been about \$5,000. For that outlay a servicable lighthouse has been secured, and it is believed that owing to the success of the experiment several others of the numerous lighthouses that are required near the big lakes and rivers of America will be treated in a similar way.

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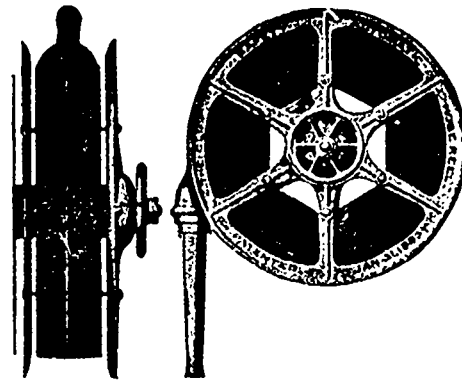
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(Continued from last week.)

It has been claimed that asphalt surfaces prevent the escape to the outer air of gas which has escaped from leaky mains, and that on this account the escaping gas is forced into our houses. This is quite a mistake, at least as far as the asphalt portion of the pavements is concerned. The hydrocarbons of illuminating gas are readily absorbed by asphalt and through the ordinary surface gas works it way, readily acting as a solvent and disintegrating the material. Asphalt therefore cannot in any way confine coal gas. The hydraulic base under an asphalt pavement may prevent to a certain extent the egress to the air of gas from leaky mains, but as such a base exists under all well laid pavements any such disadvantage is common to all forms of pavements and is not peculiar to asphalt surfaces. The asphalt surface, on the contrary, is the most desirable in this respect, as it reveals the leak at once by the disintegration which takes place and makes possible its correction.

In the light of these considerations it would seem that it would be profitable for Boston to abandon her macadam streets and the enormous cost of maintaining and cleaning them, without effectually doing away with the dust nuisance, and to lay asphalt pavements at a outlay which, with a sinking fund to pay for them, would eventually involve the expenditure of no more money than is at present laid out for the expense of their maintenance, for cleaning and watering them, and for excavating from the sewers the material washed into them from the macadam.

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STREET SWEEPING.

Street sweeping has been investigated for some time by the Board of Street Commissioners of Hartford, which reports as follows on the subject. A steam sweeper, which sweeps and takes up the dirt by suction, has been used for two seasons with good results in dry weather. The machine was quite crude and needed constant repairs, but has swept pavements satisfactorily and without annoyance to people by dust at the rate of 23.2 cents per 1,000 square yards. A rotary sweeper, which can only be used in connection with a water sprinkler, has done good work at a cost of 30.4 cents per 1,000 square yards. Hand sweeping has been found to give good results, but costs 50.3 cents.

THE CONSERVATION OF WATER SUPPLIES.

The reports of water boards and of societies interested in waterworks subjects show, says the Engineering Record, that the conservation of water supplies is attracting wide attention. Future supplies, the purification of water, and the prevention of leakage and waste are being considered everywhere. Even boards of health have had the matter brought to their attention officially by projects of one community to enter watersheds belonging to another or by requests for permission to discharge unpurified sewage into streams from which water is drawn for

drinking purposes. The trouble is so prevalent that it seems desirable to point out its essentially transitory nature. It arises in most cases from a failure to estimate accurately the probable total consumption. Figures were obtained too often from large cities where many people used well water and manufacturing establishments had private supplies. Works planned on the basis of such figures were fairly certain to prove of inadequate capacity. The lavish provision of 150 gallons per capita has been recommended lately for both New York and Philadelphia, an excessive amount for a small place, although in small towns the needs for fire protection call for plants of large capacity relative to the normal draft. Insurance records bear frequent witness that many cities have works about as useful as a garden squirt for extinguishing fires. Fortunately science has shown how to make available at a low cost sources of supply which no one would think of using formerly, and the great developments in the meter business afford means of detecting the leakage and waste which result from careless habits formed when supplies were plentiful. We must certainly furnish more water per capita than was previously thought necessary, but we can obtain it from more sources and we can prevent its waste.

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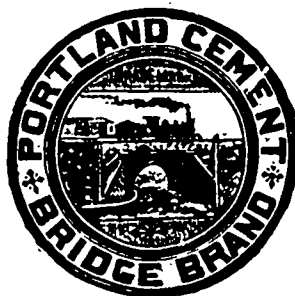
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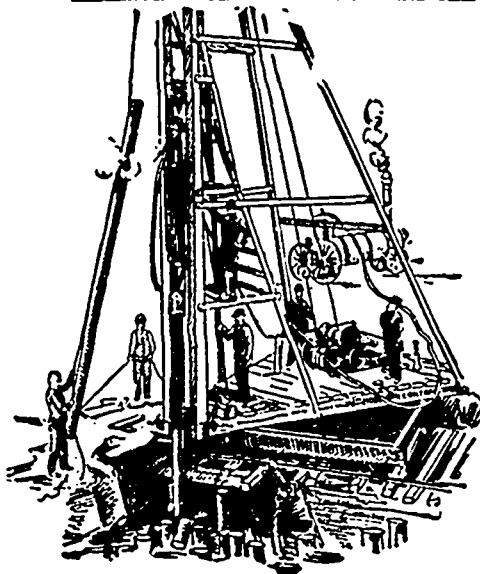
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Table listing various categories of advertisements such as Architects, Contractors' Plant and Machinery, Lime, Reflectors, etc., with corresponding page numbers.

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Table listing prices for credit valley stone products, including rubble, brown coursed, and slate.

Table listing prices for various types of lime in Toronto and Montreal.

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