

CANADIAN CONTRACT RECORD

A WEEKLY JOURNAL
OF THE CONTRACTING INDUSTRY

PUBLIC • WORKS • TENDERS
ADVANCE • INFORMATION
AND • MUNICIPAL • PROGRESS

EVERY WEDNESDAY

This paper reaches every week the Town and City Clerks, Town and City Engineers, County Clerks and County Engineers, Purchasers of Municipal Debentures and leading Contractors in all lines throughout Canada.

Vol. 12.

JULY 3, 1901

No. 22

THE CANADIAN CONTRACT RECORD,

PUBLISHED EVERY WEDNESDAY

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TO CONTRACTORS

TENDERS WANTED.

Sealed proposals for the supplying and laying of service pipes for the Town of Chatham will be received by the undersigned Town Clerk until 6 o'clock p. m. on **MONDAY, THE 31st DAY OF JULY NEXT.** Tenders must make bids for both galvanized iron pipe and cement lined pipe.

Plans and specifications may be seen at the office of Messrs. Lea & Coffin, 53 State St., Boston, Mass., and at the Town Office, Chatham, N. H.

The Council reserves the right to reject any or all tenders.

W. B. SNOWBALL, Mayor.
T. M. GAYNOR, Town Clerk.
Chatham, N. H., June 20, 1901.

TENDERS

Sealed Tenders, marked "Tenders for Steam Plant, addressed to Town Council, Niagara Falls, Ont., will be received by the undersigned up to **WEDNESDAY, THE TENTH DAY OF JULY, 1901,** for the purchase of the entire steam plant at the Electric Light Station of the Town of Niagara Falls, including the following:

- 1 Left-hand Wheelock Single Cylinder Engines, 17 in. x 8 in.
- 2 Condensers, Belted.
- 3 Heaters 22 in. with all Exhaust Pipes, Valves, &c.
- 2 Belt Tightener Rigs, 2 Shafting Pulleys with 82 in. Cutches, Stands and Bearings.
- 4 Steel Boilers 14 ft. x 65 in., with 93 3-in. Tubes.
- 1 Steam Feed Water Pump 6½ in. x 4½ in. x 8 in. (No. 1)
- 1 Steam Feed Water Pump No. 5 (Pulling.)
- 1 Injector.

with all steam pipes, feed water pipe, valves, smoke connections, gaskets, and all fittings belonging to the plant as it now stands. All the above in good working order and can be seen at the above mentioned place.

The highest or any tender not necessarily accepted. For further information apply to George Foster, Sup't. Electric Light & Power Plant.

JOHN ROBINSON,
Town Clerk.

FOR SALE.

Sandstone quarry for sale. Grey sandstone quarry near Orangeville, on line of Canadian Pacific Railway; one of the best all round quarries in Ontario. For particulars apply to S. J. Parker, Owen Sound.



Sealed Tenders addressed to the undersigned, and endorsed "Tender for Iron Superstructure, Battleford Bridge," will be received at this office until **FRIDAY, 19th JULY, inclusive,** 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. Malhiou, Esq., Resident Engineer, Winnipeg, Man.; C. F. Jardine, Esq., Gen. 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 tenders.

An accepted cheque on a chartered bank payable to the order of the Minister of Public Works, for three thousand dollars (\$3,000) must accompany each tender. The cheque will be forfeited if the party decline the contract or fail 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.

HANOVER, ONT.

WATER WORKS

Sealed tenders, endorsed, "Tender for Hanover Water Works" will be received by the Reeve of Hanover, until 4 o'clock p. m. on **MONDAY, THE SEVENTH DAY OF JULY NEXT,** for the whole work or the following subdivisions thereof:

- No. 1—Pipes, Pipe Laying (depth 5 ft.), Hydrants, Valves, and all Special Castings.
- No. 2—Construction of Power House, Head Race and Tail Race, Circular Well, Foundations for Pumps, etc.
- No. 3—Manufacturing, delivering, and erecting Two Turbine Water Wheels, together with all Shafting, Gearing, etc.
- No. 4—For manufacturing, delivering and erecting Two Duplex Power Pumps, with all Connections, Valves, Gages, etc.

Plans and specifications may be seen at the office of the Village Clerk, Hanover, and at the office of the Engineer, 99 Canada Life Building, Toronto, on and after Monday, the 1st of July next. An accepted bank cheque for an amount equal to 70 per cent. of amount of tender must accompany each bid.

The lowest or any tender not necessarily accepted.

R. E. SPEAKMAN, W. A. MEARNS, M. B.
Civil Engineer, Reeve,
Toronto, Hanover, Ont.
June 24th, 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 6th, 1901.**

The lowest or any tender not necessarily accepted.
REV. JAMES HUC HANAN,

Dundalk, Ont., June 29th, 1901.



NOTICE TO CONTRACTORS

Tenders for Pavements and Sidewalks

Tenders will be received by registered post only addressed to the Chairman of the Board of Control, City Hall, Toronto, up to noon on

Wednesday, July 10th, 1901.

for the following works:

CONCRETE SIDEWALKS.

Leopold street, north side, from Amazon avenue to Dowling avenue.

Leopold street, south side, from Jameson avenue to Dowling avenue.

Classic place, both sides, from Huron street to east end.

Brunswick avenue, west side, from Moor street to Wells street.

Sussex avenue, south side from Huron to Spadina avenue.

Moor street, north side, from St. George street to Walmer road.

Avenue place, north side, from Avenue road to Hazelton avenue.

ROADWAYS.

Macadam—Avenue place, from Avenue road to Hazelton avenue.

Huron street, from Bernard street to Dupont street.

Parliament street, from King street to Mill street.

Tar Macadam—Cavilth square, from Jarvis street to west end.

Brick—Springhurst avenue, from King street to Jameson avenue.

Stewart street, from Portland street to Huron street.

Asphalt—Howland avenue, from Huron avenue to City Hall.

CURBING.

Wood Curb—College street, west side, from College street to 180 feet south of Hepburne street.

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

Plans and specifications are now before, and forms of tender 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 5 per cent. on the value of the work tendered for up to \$1,000, and 1½ per cent. on the value of the work tendered for over that amount, must accompany each and every tender, otherwise they will not be entertained.

Tenders must bear the bona fide signatures of the contractor and his sureties, or they will be ruled out as informal.

Lowest or any tender not necessarily accepted.

O. A. HOWLAND (Mayor),
Chairman Board of Control.

City Hall, Toronto, June 28th, 1901.

TENDERS

Tenders for all trades except heating will be received until noon on **MONDAY JULY 8TH**, for the alterations and additions to store on King street west, for the Harold A. Wilson Company.

Lowest or any tender not necessarily accepted.

A. R. DENISON, Architect,
18 and 20 King Street West.

TO CONTRACTORS.

Sealed tenders, addressed to the undersigned, will be received up to 10 o'clock on **SATURDAY, JULY THE 6TH**, for all trades except Plumbing, Heating and Electric Wiring, required in the erection of a building for the Royal Victoria Hospital Board, Barrie, Ont.

Plans and specifications may be seen at the office of Dr. W. A. Ross, Dunlop street, Barrie, and at the office of the architect.

The lowest or any tender not necessarily accepted.

GOUNLOCK & BAKER, Architects,
714 Temp'e Building, Toronto.

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 Harrison. 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.

Harrison, Ont., June 27th, 1901.

FIRE NOTICE

Montreal Pipe Foundry Co., Limited

We beg to assure our patrons that the damage caused by fire to our works at Lachine will not, to any extent, interfere with the execution of orders entrusted to us, as we will immediately increase the output at our Three Rivers, Quebec, and Londonderry, N. S. works, and prompt steps will be taken to reconstruct the Lachine plant.

MONTREAL PIPE FOUNDRY CO., Limited,
T. J. Drummond, President.

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 26TH, 1901**, for the **IRON SUPERSTRUCTURE** and **MASONRY WORK** required for the construction of a Bridge 132 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.

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.

CONTRACTS OPEN.

THESSALON, ONT.—A. A. Burke intends building a brick dwelling.

SARNIA, ONT.—Mr. Ainslie, of Comber, may build a planing mill here.

FORT WILLIAM, ONT.—Tenders closed this week for building school house.

PAKENHAM, ONT.—Tenders will be invited by the council for a stone or iron bridge.

BROCKVILLE, ONT.—The Matthews Pork Packing Co. are preparing to build a factory here.

GODERICH, ONT.—W. T. Murney will build a residence, corner Bayfield and Britannia road.

SYDNEY, N. S.—J. C. McKinnon invites tenders up to 4th inst. for erection of Masonic building.

FINCH, ONT.—A. M. Cameron wants tenders by 13th inst. for construction of school house here.

UXBRIDGE, ONT.—J. W. Gould, town clerk, wants tenders by July 18th for erection of a town hall.

CHATHAM, ONT.—The Cleveland Tanning Co. are looking for a site here on which to build a factory.

SAULT STE. MARIE, ONT.—Mr. Thompson, architect, is preparing plans for proposed opera house.

POINT EDWARD, ONT.—Botsford & Jenks, of Port Huron, are planning to erect a large elevator here.

ST. ANDREWS, N. B.—Surveys are being taken for the wharf to be built here by the Dominion Government.

NEWCASTLE, N. B.—Willis Chipman, C.E., is in charge of the waterworks system to be constructed here.

MURILLO, ONT.—Tenders are asked by Robert McKenzie up to 4th inst. for erection of brick school house.

OKOTOKS, N. W. T.—W. D. Lindham will receive bids up to July 16th for purchase of \$2,500 debentures.

MONCTON, N. B.—The electors have voted \$5,000 for new sewer outlets and \$10,000 for macadamizing streets.

ARNPRIOR, ONT.—McNab and Arnprior councils will probably construct a drain through the Mulchey property.

LANARK, ONT.—G. W. Martin, of Smith's Falls, has been appointed architect for the proposed House of Industry.

WEST LORNE, ONT.—Tenders close July 12th for erection of brick block for E. R. Mogg. Plans by architect Doyle.

DESBARATSSTATION, QUE.—Plans have been prepared for a station house for the C. P. R. at this place, to cost \$18,000.

FARNHAM, QUE.—The parishioners have decided to rebuild the church which was recently burned; estimated cost, \$80,000.

MEAFORD, ONT.—The question of reconstructing the Trowbridge street bridge was considered at last council meeting.

THAMESVILLE, ONT.—Tenders for placing metallic ceilings in public schools will be received by W. A. Alberston up to 10th inst.

GLACE BAY, N. S.—At a recent meeting of citizens it was decided to borrow \$30,000 for installing an electric light

plant and the purchase of a steam fire engine. — The plans prepared for Mr. Cruise's theatre provide for three stores on the ground floor and an auditorium with seating capacity for 600.

LEAMINGTON, ONT.—Plans for proposed Church of England have been submitted to the building committee; estimated cost, \$6,500.

PETROLEA, ONT.—Bids are asked by John McHattie, town clerk, up to Monday, 8th inst. for construction of 7,000 square feet of granolithic sidewalk.

PRESQUE ISLE, ONT.—John McKenzie, township clerk of Sarawak, invites bids up to July 15th for purchase of \$5,000 4 per cent. ten year debentures.

POINT STE. CHARLES, QUE.—The wardens of Ste. Gabriel parish have decided to convert the basement of the church into a concert hall, at a cost of \$2,000.

KINMOUNT, ONT.—Steps will be taken immediately to build a new steel bridge at this place, towards which the Ontario Government has contributed \$1,000.

COBOURG, ONT.—W. & W. Stewart, architects, of Hamilton, have been engaged to prepare plans for a new Collegiate Institute building for this town, to cost \$25,000.

BRANTFORD, ONT.—The Oddfellows purpose erecting a building here. — A company has been formed with capital of \$100,000 to engage in the manufacture of portland cement at Blue Lake.

WILLIAMSTOWN, ONT.—G. H. McGillivray invites bids up to 10th inst. for removal of old bridges and construction of stone arch culvert at McBain's creek. Contractors to submit plans with tenders.

OWEN SOUND, ONT.—The directors of the Sun Portland Cement Co. are taking steps towards proceeding with the construction of their plant. Dr. Horsey, M. P., is the prime mover in the undertaking.

WATERVILLE, QUE.—Among the new buildings to be built this summer will be a brick Episcopal parsonage, a brick dwelling by R. O. Hopkinson, a brick block by T. Swanson, and a saw mill by F. G. Gale.

CHESLEY, ONT.—The question of building the Crispin bridge, in Brant township, is under consideration. A Guelph engineer has submitted plans for suitable bridges, varying in cost from \$4,000 to \$8,000.

ST. JOHN, N. B.—The city may purchase a steam road roller. — R. C. John Dunn, architect, has been instructed to prepare plans for new school on Elm street, to be two storeys, with ten rooms and exhibition hall.

GALT, ONT.—G. R. Mellish, architect, is preparing plans for proposed skating and hockey rink, to be 182x76 feet. — The council will raise \$37,000 for county bridges, addition to registry office, and current expenditure.

QUEBEC, QUE.—At the recent timber limit sale, W. H. Davis, of Ottawa, and David Russell, of Montreal, purchased over 1,000 miles of limits situated on the headwaters of the St. Maurice river. It is said to be their intention to develop a water power near the limits and to erect large pulp and paper mills.

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Sanitary Building Papers and Patent Wire Edged Ready Roofing for Municipal and other Buildings.

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TORONTO MONTREAL ST. JOHN HALIFAX

VANCOUVER, B. C.—It is reported that new plans will be prepared for the new Hotel Vancouver, about to be rebuilt by the C. P. R.—Several prominent Chinamen will erect a block of stores at corner of Dupont and Carrall streets.

PERTH, ONT.—John A. McLaren will probably erect a new building on Gore street.—J. M. Rogers has given notice in the county council that he will introduce a by-law to raise \$100,000 for the purpose of improving the roads in the county.

SYDNEY, C. B.—R. J. Campbell, vice president of the Cape Breton Extension Railway Co., states that work on the railway from Canso to Louisburg will be begun as soon as the surveys are completed. A branch will be built from the main line to this place.

WINNIPEG, MAN.—At a recent meeting of St. Boniface town council plans were submitted for a new bridge over the Red river, connecting Winnipeg with St. Boniface.—Plans have been completed for the proposed church to be built by the Evangelical Association.

LINDSAY, ONT.—Robert Sylvester has purchased a site on which he will build a modern residence.—H. McNeill, of the James Hamilton Carriage Works, will erect a two storey residence on Francis street.—On Monday next the ratepayers will be asked to vote \$4,000 for water-works extensions and \$5,000 for erection of a new fire hall.

WOODSTOCK, ONT.—E. G. Jackson, clerk East Oxford, asks bids up to July 13th for furnishing material and constructing the Elliott drain and branches in the township of East Oxford. Work consists of digging about 14,000 feet of drain, of which 3,582 feet will be tiled. Plans at office of F. J. Ure, C.E.—The city will probably construct some brick pavements.

MONTREAL, QUE.—The question of reconstructing the Board of Trade building is still under consideration by the members. The Dominion Bridge Co. have asked permission to tender for the steel work of the elevators proposed to be erected in the harbor.—It is probable that the company will undertake the construction of the Egin basin sewer, at a cost of \$60,000.

HAMILTON, ONT.—Tyrrell & Ford, civil engineers, are taking tenders this week for concrete abutments and foundations for the Marsh bridge. Campbell Bros. & McNeil have taken out a permit for a brick dwelling on Queen street for J. Dean, cost \$1,000.—W. & W. Stewart, architects, have taken out a permit for a brick dwelling on Wentworth street for J. B. Turner, cost \$2,500.

ST. CATHARINES, ONT.—Wm. Furringer will build a residence on Thomas street, cost \$2,000.—The Department of Public Works at Ottawa is asking for tenders up to 12th inst. for rebuilding dam and bridge at Dunnville and for deepening the rock cutting from Port Colborne to Humberstone. Plans of above works at office of the superintending engineer of the Welland canal, this city.

FREDERICTON, N. B.—The New Brunswick Coal & Railway Co. has given notice that tenders will shortly be invited for construction of a line of railway from the terminus of the Central railway at

Chipman to Gibson, passing through the Newcastle coal fields. The first section of fifteen miles from Chipman to Newcastle has been located and will be let separately. Plans are being prepared by E. G. Evans, C. E., of Hampton, N. B.

VICTORIA, B. C.—The Crow's Nest Southern Railway Co. have signed an agreement to build a section of the railway in British Columbia to connect the Crow's Nest coal mines with the Great Northern Railway at Jennings, Montana.—The Provincial Government will proceed at once with the reconstruction of the Eburne bridges over the north arm of the Fraser river. The work will include repairs to the present structures and the putting in of new steel wings.

LONDON, ONT.—The ratepayers have decided in favor of a tar macadam pavement for Dundas street.—The Westminster township council have granted right of way for the proposed electric railway to connect London with Port Burwell.—H. C. McBride, architect, is preparing plans for residence on Colborne street for J. D. Smallman, and has prepared plans for double residence on Barwell street for Mrs. Kidner.—Plans for addition to public library are being prepared in the city engineer's office.—R. E. North will build a brick house on North Louisa street.

HALIFAX, N. S.—It is stated that the Dominion Securities Co., of Toronto, have made an offer to build a railway from this city to Yarmouth. The road, it is esti-

mated, will cost \$1,000,000. Plans have been completed by the Imperial authorities for the fortifications at this place. Much of the work will be constructed of cement.

J. C. Dumaresq & Son, architects, have recently prepared plans for the following: Building for the Royal Bank of Canada, Sydney, C. B.; building for Smith & Proctor, of Halifax, to be built at Sydney; residence for C. Estano, Sydney; additions to R. C. church, Shediac, N. B.; building for the Peter McSwerney Co., Moncton, N. B.; additions to the People's Bank of New Brunswick, Fredericton, N. B. Same architects are at work on plans for the following: Building for the Halifax Infirmary, Halifax; building for the Halifax School for the Blind, Halifax; additions to the Norfolk House, New Glasgow; additions to building for H. D. Sutherland, New Glasgow; new R. C. church, St. Mary's Ferry, N. B.

TORONTO, ONT. Hon. Mr. Tarte, Minister of Public Works, was in the city last week looking into the proposed harbor improvements. It is understood that E. R. Wood, manager of the Central Canada Loan & Savings Co., will erect a handsome residence on property recently acquired in the Queen's Park, adjoining J. W. Flavell's new residence. Plans have been prepared for a new fire hall, to cost \$10,000, to be built on the west side of Parliament street, immediately north of Queen.—W. J. Mallard, of Atlanta, Ga., is in the city with a view to selecting a site on which to build a factory for the

Good Roads Machinery Co. (Registered)

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“CHAMPION” Rock Crushers, Road Rollers, Road Graders, Road Plows, Macadam Spreading Wagons, Street Mud Cleaners, Wheel & Drag Scrapers.

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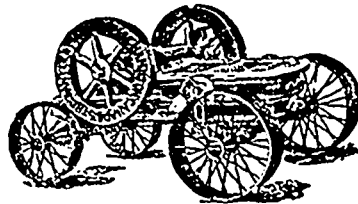
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STRUCTURAL IRON WORKS

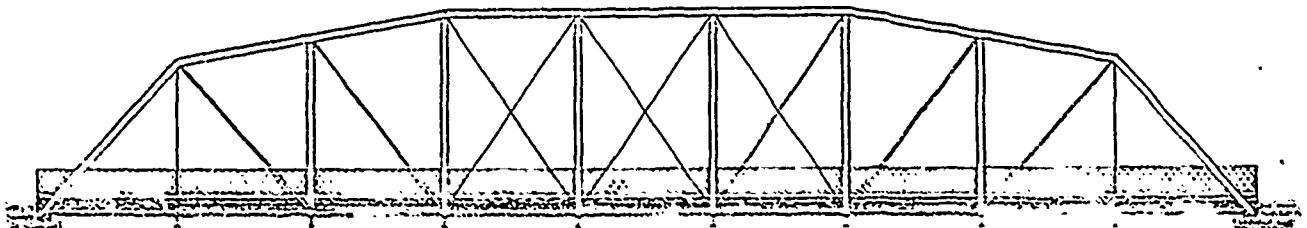
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STONE Crushers, Stone Spreading Wagons, Wheelers and Drag Scrapers, Plows, Steam and Horse Rollers, Road Graders, &c.

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The Hamilton Bridge Works Co., Limited, Hamilton, Canada

STEEL RAILWAY and HIGHWAY BRIDGES

STEEL ROOFS and Every Description of STEEL LATTICE and GIRDER WORK BRAMS, CHANNELS, ANGLES and TEES always in stock. Estimates Furnished on Application.

manufacture of a patent feed cutter. At a meeting of the Muskoka Navigation & Hotel Co., held in this city last week, arrangements were completed for the building of a second hotel in Muskoka, to be begun this fall.—Tenders are asked by the city up to July 10th for painting bridges.—G. M. Miller & Co., architects, will shortly ask for tenders for the reconstruction of the Crawford street Methodist church.—Building permits have been granted as follows: Albert Dale, pair brick dwellings, 4 and 6 Withrow avenue, cost \$3,500; W. A. Thompson, repairs to 129-135 King street east, cost \$1,200; North British and Mercantile Co., alterations to 26 Wellington street east, cost \$13,000; George Dickson, school building at corner Bloor street and Spadina avenue, cost \$2,000; trustees Sherbourne street Methodist church, improvements, cost \$10,000; Toronto Lithographing Company, building on King st. west, cost \$40,000 Independent Order of Foresters, to complete eleventh storey of Temple Building, cost \$40,000; E. J. Lennox, alterations to 164 Bay street, cost \$3,000; P. V. Meyer, restaurant and dwelling on Lake Shore road, opposite High Park entrance, cost \$2,500; J. M. Kerr, brick dwelling on Powell avenue, cost \$3,000; Mr. Richards, brick dwelling 512 Dovercourt road, cost \$3,000; J. W. Flavell, residence in Queen's Park, cost \$50,000; R. D. Davis, ten brick houses, Bright street, cost \$12,000.—Improvements will be made to the Walker House, corner Yonge and Front streets, at cost of \$15,000. Another storey will be added and the interior modernized.

OTTAWA, ONT.—A handsome two-storey addition will be built to the residence of Hon. Clifford Sifton.—Charles Nolin has purchased property on Friel street on which he will build a brick dwelling.—City capitalists are said to have decided to build a fine summer hotel in Rockcliffe park, at a cost of \$60,000.—Tenders are asked up to July 3rd for erection of club building, corner Kent and Gloucester streets; plans by M. C. Edey, architect, 51 Sparks street.—The council has selected a site at the end of Wintemburg street for the proposed hospital, and a by-law to borrow \$72,000 to pay for the site and equip the building will be sub-

mitted. E. L. Horwood, architect, is this week taking tenders for erection of fire hall for village of Hintonburg.—M. P. Davis; of this city, and M. J. Haney, of Toronto, have donated \$6,000 each for erection of new scientific hall in connection with Ottawa University.—A two roomed brick addition, to cost \$1,000, will be built to the Creighton street school.—Building permits were last week granted as follows: Mrs. M. A. Rowan, brick dwelling, McLeod street, cost \$18,000; Sir Louis Davies, addition to dwelling, Metcalfe street, \$1,200; Hon. A. G. Blair, addition to dwelling, O'Connor street, cost \$1,200; Thos. Haste, brick dwelling, McLeod street, \$1,600; J. Mulhall, brick veneered dwelling, Cooper street, J. Johnston, frame dwelling and store, Carling avenue, cost \$1,000; Col. Sherwood, brick watchhouse, Nicholas street, cost \$17,000; S. J. Davis, brick dwelling, Hickey street north, cost \$2,800; S. J. Davis, brick veneered dwelling, Hickey street north, cost \$2,700; Robt. Barnett, double brick veneered dwelling, Gilmour

street south, cost \$2,000; Geo. Dearing, brick dwelling, MacLaren street south, cost \$2,500; T. Lindray & Co., brick stables, Victoria street south, cost \$950; John Nicol, brick dwelling, Maple street north, cost \$1,000; R. J. White, frame dwelling First avenue south, cost \$900; M. Lawson, brick dwelling, First avenue north, cost \$1,500; Mrs. Margaret Fox, frame dwellings, Clarence street north, cost \$3,000; D. & A. McLaren and W. D. Morris, brick warehouse, Sparks street south, cost \$3,000; Henry Wilcox, brick dwelling, McLeod street, \$1,000.—The Canadian Institute has decided upon the erection of a brick building 67x160 feet, to cost about \$40,000. The plans are being prepared by Jos. Charette, of the public works department. Tenders are invited by the department of public works up to July 27th for erection of court house at Carnduff, N. W. T.

FIRES.

Buildings of the Montreal Pipe Foundry Co., in Montreal, damaged to extent of

Pumping Machinery

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Power Pumps
Duplex Pumps
Electric Pumps
Artesian Well Pumps
Compressed Air Pumps

We are prepared to equip municipal or other water works plants with Pumping Machinery of the latest and most approved designs. We manufacture Steam and Power Pumps of all types, for any duty. Our long experience is behind all our products. They are the standard in Canada for excellent service. Catalogues and specifications on request from The Northey Company, Offices and workshops at Toronto, Ont.

We have several excellent second hand pumps in first-class condition for water works services at close prices. Send for Catalogues.

THE Northey
Company
Limited

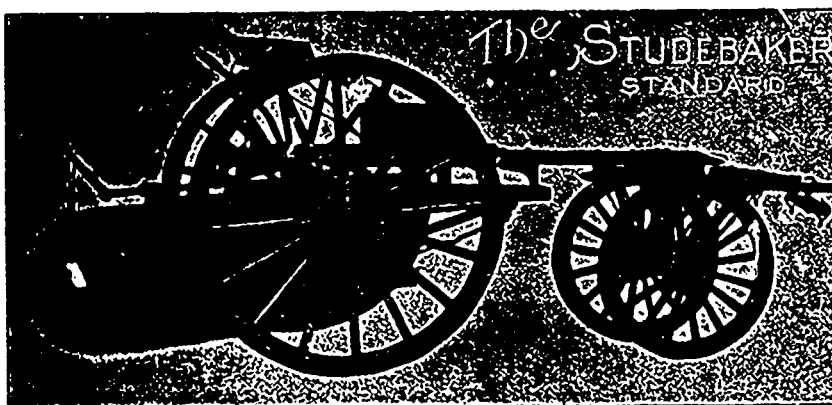
The Canadian Bridge Co., Limited

WALKERVILLE, ONT.

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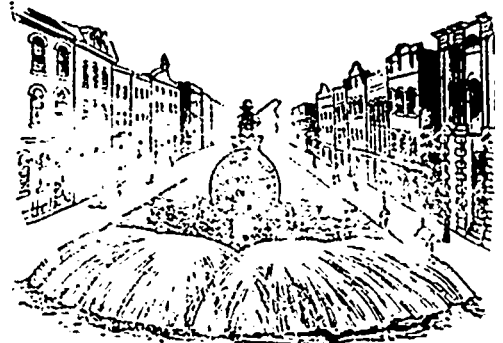
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\$100,000, wholly covered by insurance.—Planning mill and sash and door factory of McCreddie & Hodgins at Snowville, Que.; loss on machinery and buildings \$5,000, no insurance.—Steam barge Victoria burned at Chambly Basin, Que., last week; loss \$9,000.—Woolen mill of Bain & Co., at Elora, Ont.; total loss.

CONTRACTS AWARDED.

ORILLIA, ONT.—Addition to hardware store of J. R. Eaton: G. H. White, contractor.

WYOMING, ONT.—W. Ellis, of Sarnia, has secured the contract for cement sidewalks here, at 11½ cents per foot

DESERONTO, ONT.—The contract for building new post office has been let to Richard Sheehy, of Peterborough.

THOROLD, ONT.—The contract for concrete sidewalks has been let to Newman Bros. of St Catharines, at 15 cents per foot.

GLACE BAY, N. S.—The contract for building Methodist church here has been let to W. G. Hatfield, of Parrsboro, N. S.

MIDLAND, ONT.—Contract for building Methodist church here has been let to J. R. Eaton, of Orillia; price about \$13,000.

QUEBEC, QUE.—Joseph Gosselin has secured the contract for construction of new wing to Laval Normal School, at cost of about \$80,000.

BERLIN, ONT.—T. Bishop has been awarded the contract for the King street drain, at \$1,375, and R. Boehmer & Co. that for the Victoria street drain, at \$3,550.

ST. JOHN, N.B.—Residence for Louis Ready: Mason and brick work, P. Mooney; carpentry, John A. Adams; painting, James H. Pullen. The architect is R. C. John Dunn.

LONDON, ONT.—Warehouse on Clarence street for M. O'Meara: J. Burnett, brick work; R. Gilmour, carpentering; S. Stevely, galvanized iron; Smith Bros., plumbing; Screaton & Erskine, painting.

WATERLOO, ONT.—The following tenders were received for purchase of \$9,899.75 4 per cent. town debentures: Canadian Bank of Commerce, \$9,960 (accepted); Bank of Hamilton, \$9932.42; The Central Canada Loan & Saving Co., \$9,915.80; H. O'Hara & Co., Toronto, \$9909.75; G. A. Stinson & Co, Toronto, \$9,906.

KINGSVILLE, ONT.—The following tenders were received for purchase of \$4,000 40 year debentures: W. E. Merritt, Chatham, with accrued interest, \$4661 (accepted); H. O'Hara & Co., Toronto, \$4025; F. Maux, Chatham, \$4,000; Central Canada Loan & Savings Co., Toronto, \$4,011; G. A. Stinson & Co, Toronto, \$4,006 50.

VANLEEK HILL, ONT. The township of West Hawkesbury has purchased from the Sawyer-Massey Co., of Hamilton, a stone crusher and an engine to operate it. The same company have recently shipped stone crushing outfit to the city of St. Johns, Nfld., and to J. W. Munro for work in connection with the building of the Spanish River Pulp & Paper Company's mills at Webblwood, Ont.

CAMPBELLTON, N. B.—Five tenders were received by the council for construction of sewerage system, as follows: Clarke & Connolly, Toronto, \$39,742; the same firm, \$54,990; Jas. K. McDon-

ald, New Glasgow, \$85,500; J. F. Chartier & G. A. Reby, \$52,800; O. L. Henault, Montreal, \$41,553; Mordock G. Mann, Metapedia, \$41,454. The last tender has been accepted

SUSSEX, B. Following are the tenders received for laying of sewer and water pipes and building reservoirs: W. J. Mulhall, Liverpool, N. S. (accepted); W. H. Culbert, Sussex; E. A. Charters & Co., Sussex; Mr. Leblanc, Moncton; J. A. Wheaton, St. John; Geo. R. Ellis, St. John; W. D. Wheaton, Parrsboro, N. S.; C. O. Foss, of Bridgewater, N. S., has been employed as engineer.

OTTAWA, ONT.—The tender of Roumald Desjardins, of this city, has been accepted for construction of two piers in the north Nation river.—O. St. Denis, of this city, has secured the contract for completion of interior of the church of St. Raphael.—For boiler and heating apparatus for police station, tenders were received as follows: Butterworth & Co., \$598; McKinley & Northwood, \$765; O'Connor & O'Callaghan, \$645; J. R. McLennan, \$590 (accepted.)

TORONTO, ONT.—Tenders aggregating over \$7,000 for repairs to the public schools were opened by the Board



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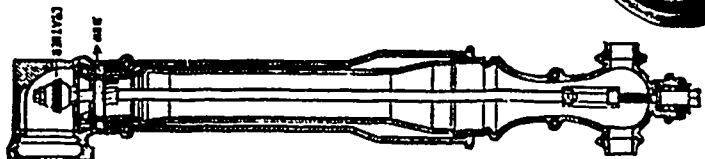
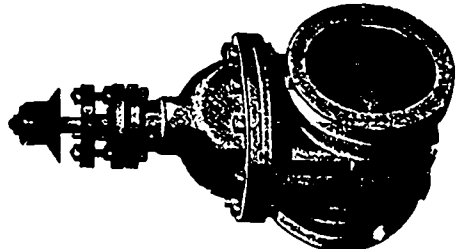
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WALKERVILLE. - ONTARIO



last week, and contracts awarded as follows: Carpenter work—Brock ave. school, A. Batho, \$151; Clinton st., A. Batho, \$398; Cottingham st., F. Westlake, \$108; Dewson st., A. Batho, \$249; Gladstone ave., A. Batho, \$372; Grace st., A. Batho, \$179; Jesse Ketchum, F. Westlake, \$749; Louisa st., F. Armstrong, \$283; Brant and John st., F. Armstrong, \$210; Crawford and Givens st., P. Hamlyn, \$256. Mason work—Dewson st., Orr Bros., \$600; Grace St., Chas. Bulley, \$390; Brock, Dovercourt and Gladstone, A. M. Ashfield, \$723; Clinton, Crawford and Palmerston, A. N. Ashfield, \$296; Cottingham, Wellesley and York, Orr Bros., \$153. Painting—Dufferin, T. Barratt, \$345; Essex st., James Phinnemore, \$273; Niagara, J. Phinnemore, \$31.50; Dewson and Gladstone, J. Phinnemore, \$64.50. Plumbing—Gladstone ave., J. Sherlock, \$187; Brock, Dewson and Grace, W. Mashinter & Co., \$168; Borden, Huron and Jesse Ketchum, Purdy, Mansell & Co., \$185. Roofing—Jesse Ketchum, W. D. Hutson & Son, \$102. Tinsmithing—Brock, Clinton, Gladstone, Dewson, Grace, Duke, Morse, Dovercourt, Lansdowne, and York St. schools. A. B. Ormsby & Co., \$527.

THE MANUFACTURE OF STONE.

A very interesting lecture was delivered recently on the manufacture of artificial stone from lime and sand, by Mr. W. Owen, of London, Eng., in the club room of the Windsor Hotel, Montreal.

This artificial stone, of which he had

several plain and sculpture specimens on exhibition, is made as follows: "Quartzose sand, dug in the vicinity of the works, is first dried by being heated; it is then thoroughly mixed dry with hydraulic lime in the proportion of about 12 per cent. of the latter to 88 per cent. of the former. This mixture, still in a dry condition, is packed into very strong moulds of any desired shape, the filled moulds being subsequently built up in a steel frame or box. The latter is conveyed by tramway to an immense steel cylinder, inside of which it is placed, the cylinder now being closed and the door strongly bolted up. Water near the boiling point is then admitted until the cylinder is full, and an indicated pressure of from 60 lbs. to 70 lbs. maintained. The water is kept in a highly heated condition by steam coils running along the length of the cylinder inside, and this is a very essential part of the process.

On the admission of the boiling water the hydraulic lime in the moulds commences to slake, and the pressure maintained assists in forcing the water into the sand and lime mixture so as to bring about complete slaking throughout the mass. The mixture being confined in strong moulds, it follows that the expansion of the

material consequent on slaking is not allowed free play, so that immense pressure is set up within the material itself, which tends to render it much more compact than might otherwise be the case. It is important that as little air as possible shall be admitted into the cylinder during the slaking; that is why the water is admitted at boiling-point, and the temperature kept up by steam coils instead of injecting live steam direct into the water.

On the lime being thoroughly slaked, under the conditions named, the pressure and temperature are gradually relaxed, and the material is allowed to cool slowly. The cylinder or converter is subsequently opened, when the mixture is found to be converted into solid stone. The latter is in a wet condition and becomes harder in the course of twenty-four hours. The whole operation, from the packing of the cylinder to the withdrawal of the mould, occupies about fifty hours.

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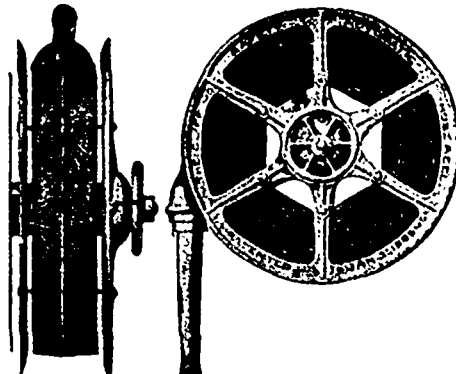
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ADVANTAGES OF ASPHALT PAVEMENTS.

The following extracts concerning asphalt pavements are taken from a paper by Clifford Richardson, entitled "Asphalt Pavements; what they are and how to make them":

REPAIRS TO VEHICLES.—In 1880 M. Darcey, then director of public works in Paris, made quite an elaborate calculation of the saving which would be effected in the wear and tear of the 48,000 vehicles in Paris by changing all the rough stone into smooth-surface pavements. The result of the calculation was a saving of \$1,092,000 per annum. M. Barrabant, the chief engineer of Paris in 1884, in citing these estimates, states that "if made to-day they would give without doubt figures more striking." His average saving, it will be noticed, is only \$23 per vehicle, which certainly would seem moderate. In New York, in 1888, there were 20,441 vehicles licensed for public hire; this does not include the trucks, wagons, and carriages owned by individuals, firms or corporations and used for their own business or pleasure. The number of these is not of public record, but it is probably at least double the number of vehicles licensed for hire. If so, the total number of vehicles in New York is about 60,000, and the saving in wear and tear as a result of smooth pavements, according to M. Darcey's figures, would be about \$1,500,000 per annum.

A similar calculation, according to the Philadelphia North American of Oct. 12, 1885, showed that repairs to vehicles necessitated by their use on the old-time cobble-stone pavements of Philadelphia amounted to enough every year to pay the interest on the bonds which it would be necessary to issue for paving the city with Trinidad asphalt, the entire saving to

owners being determined as over \$100,000 000 annually.

I have been informed by carriage builders that in cities where all the pavements are asphalt, persons buying carriages are much more critical and demand a higher grade of workmanship, as the slightest defects are revealed on the smooth pavements which are concealed by the noise of the rougher kind.

SPRINKLING.—The sprinkling of streets to lay dust should not be tolerated. It is a makeshift, and merely covers up the lack of cleanliness, at least with asphalt pavements. With those forms of pavements having large interstices which cannot be thoroughly cleaned, sprinkling may become a necessity. The only way that water should be used on asphalt pavements is in flushing them from a hydrant, and this is the ideal way of keeping them clean. It may be done with either salt or fresh water without injury to the surface.

HYGIENIC DATA.—The best evidence of the desirability of asphalt surfaces from a hygienic point of view is offered by the death-rate in various cities as compared with the class of pavements which are in use in them and the degree of cleanliness practised. The following list of cities furnishes some interesting data:

Berlin—Almost all asphalt pavements; death rate per thousand inhabitants per year 19.6

Amsterdam—Stone and asphalt, streets washed.....	20
Rome—Streets nicely cleaned, much asphalt, hard climate.....	21.2
Vienna—Little asphalt, much stone and macadam.....	24.3
Dublin—Granite cobble and macadam, fairly cleaned.....	29.3
St. Petersburg—Cobble and macadam, notwithstanding cold climate which kills germs.....	30
New York—1892, with little asphalt	38.37
" " 1894, more asphalt....	30
" " 1896, more asphalt and clean streets, because easily cleaned.....	26

ASPHALT AND GAS—In addition to the above data it is of interest to note that the death-rate from bowel complaints in New York city decreased from 11.5 in 1892 to 6 in 1896 per 1000. This decrease is directly connected with the pavement of the tenement house district on the east side of New York with asphalt, and also to the increased cleanliness of the streets which was possible with this form of pavement.

(To be continued next week)

BUSINESS NOTE.

R. H. O'Brien, plumber, of Fredericton, N.B., is reported to have assigned.

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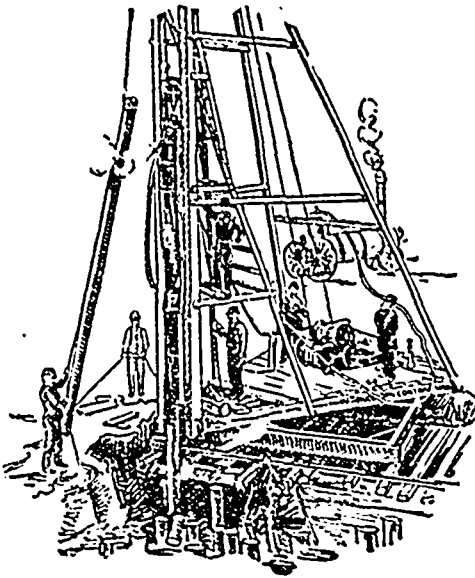
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Table showing prices for Beamsville, Montreal products including Best Peerless, No. 1, No. 2, and various paving materials.

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Table showing prices for CREDIT VALLEY STONK products in F.O.B. Halifax and Toronto, Montreal.

Table showing prices for Cement products in Toronto, Montreal, including Josson Brand Portland and North's Condor.

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