

CANADIAN CONTRACT RECORD

A WEEKLY JOURNAL OF PUBLIC WORKS, TENDERS, ADVANCE INFORMATION AND MUNICIPAL PROGRESS

EVERY WEDNESDAY

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

VOL. 12.

JULY 17, 1901

No. 24

THE CANADIAN CONTRACT RECORD,

PUBLISHED EVERY WEDNESDAY

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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 DEBENTURES

Sealed tenders, marked "Tenders for Debentures," addressed to S. H. McKay, Esquire, Mayor, Walkerton, will be received until MONDAY, THE 12TH DAY OF AUGUST, 1901, at the hour of seven p.m., for the following Town of Walkerton Debentures, viz: \$5,000.00 Waterworks, Sewers and Sundry Improvement Debentures, interest four per cent. per annum, issued on instalment plan, payable in twenty annual payments.

\$6,774.86 "Consolidated Debt Debentures," interest five per cent., payable half-yearly on 1st January and July each year, and principal on 1st January each year, issued under 53 Vict. Chap. 107.

Tenders will be received for both or either of the above issues and tenders are requested to state a bulk amount payable on 1st August. The said Debentures will be delivered at Walkerton to the party whose tender may be accepted within 10 days from receiving and opening tenders. The highest or any tender not necessarily accepted. All information required will be furnished on application to John Lee, Esquire, Town Treasurer.

Dated this 13th day of July, 1901.

W. S. GOULD,
Town Clerk.

TENDERS WANTED.

Tenders will be received up till JULY 25TH, for the laying of 18,000 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
Reeve.

Iroquois July 2nd, 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 23RD, 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.

Tenders for Walks

Village of Chippewa

Sealed tenders addressed to the Reeve will be received by the Corporation of the Village of Chippewa, Ontario, until 4 p.m., WEDNESDAY, JULY 31ST, 1901, for the construction of about 24,000 square feet of concrete sidewalks. Specifications may be seen and forms of proposal may be obtained at the office of the Reeve on and after Monday, July 23rd. Each proposal must be accompanied by a certified cheque for \$200.00 payable to the Treasurer of the Village to be forfeited in case of refusal to enter into a contract awarded.

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

W. E. B. MCKENZIE, Reeve,
WM GREENWOOD, Clerk.

July 16th, 1901

CONTRACTS OPEN.

TERS WATER, ONT.—Mr. Thacker will erect a carriage factory.

RIEVELSTOCK, B.C.—It is proposed to erect a brick school building.

NANAIMO, B. C.—H. W. Kent is calling for tenders for poles for a new telephone line.

SHAWVILLE, QUE. Messrs McCredie & Hodgins will rebuild their factory recently destroyed by fire.

LILLOOET, B.C.—J. Ames will install a 400 horse power electric plant with which to operate dredges.

COOKSHIRE, QUE.—C. H. Tan, Esq. will receive tenders until noon of the 20th inst. for the building of bridges, the council to furnish covering.

DURHAM, ONT.—The ratepayers by by-law have granted a free site and tax exemption for ten years to the National Portland Cement Co.

GUELPH, ONT. Lavatories are to be erected in connection with the market and winter fair buildings.

CARNDUFF, N. W. T. The Department of Public Works, Ottawa, invites tenders until the 27th inst. for the erection of a court house building at this place.

CLAREMONT, ONT.—R. P. Hooper, this place, invites tenders until the 18th inst. for Pease furnace to heat public school, 2 rooms 24x30.

NELSON, B.C.—The Salvation Army will build new barracks, estimated cost \$9,000. Construction of the Federal Government Buildings has been commenced.

HINTONBURG, ONT.—The tenders received for the proposed new fire station being in excess of the money at the disposal of the committee, it has been decided to invite new tenders.

BLIND RIVER, ONT.—Thos. A. Craig, Secretary, will receive tenders until the 20th inst for the erection of a school building. Plans and specifications at Grand View Hotel, Blind River.

GRAND FORKS, B.C.—The school trustees have offered to supplement a grant of \$5,000 from the Education Department by an equal sum to secure the erection of a brick school building.

CALGARY, N. W. T.—James Young invites tenders until noon of the 25th inst. for the purchase of \$10,000 worth of 6 per cent. debentures of the trustees of the Springbank Irrigation District.

LINDSAY, ONT.—By-laws have been approved by the ratepayers authorizing the issue of debentures to the amount of \$10,000, for the building of a new fire hall and the extension of the waterworks.

BRACEBRIDGE, ONT.—William H. Spencer, township clerk of Monk, invites tenders until August 1st, to be addressed to Box 15, Bracebridge, for the building and procuring stone for the foundation of a township hall.

THOROLD, ONT.—The Secretary of the Department of Public Works, Ottawa, invites tenders until the 19th inst. for deepening certain portions of the Long Level, Welland Canal, between this town and Port Colborne.

SACKVILLE, N.B. Mr Blair Taylor will erect a residence on Allison Avenue.—At the request of the citizens, an official of the I.C.R. visited Sackville recently to look into the necessity for increased wharf accommodation.

BOWMANVILLE, ONT. By-laws have been approved by the ratepayers granting bonuses to Robert J. Graham, Belleville, and James R. Finkle, Colborne, to establish here an evaporator, and to assist the Bowmanville Foundry Co., Limited, to erect new buildings.

ANHERST, N. S.—A joint stock company has been formed to manufacture patent floor tiling.

NIAGARA FALLS, ONT.—Plans are being prepared for a brick residence to be erected on Morrison street.

SAULT STE. MARIE, ONT.—The Masonic order are considering the erection of a temple to cost \$20,000.

RICHMOND CORNERS, N. B.—C. Campbell invites tenders until noon of the 20th inst. for the erection of a manse.

HALIFAX, N.S.—J. H. Ladd, secretary, will receive tenders up to the 31st inst. for the erection of a hall at the Broad Cove Mines.

COLLINGWOOD, ONT.—A by-law has passed the council authorising the issue of debentures for \$2,000 in aid of the library board.

MEAFORD, ONT.—Engineers are engaged in surveying the route for the Meaford and Owen Sound portion of the Manitoulin & North Shore Railroad.

KINGSTON, ONT.—The K. & P. Railway Company will ask aid from the government towards the construction of a branch line from Sharbot Lake to Palmers Rapids, a distance of forty miles.

RICHMOND, QUE.—The municipal councils of Richmond and Melbourne are endeavoring to secure the erection of a bridge between the municipalities, and are offering inducements for that object.

SHAWINIGAN FALLS, QUE.—The council have granted a twenty years franchise to a private water supply company. The plant which is expected to cost \$100,000, will, it is said, be in operation in six months.

SHERBROOKE, QUE.—The Finance Committee recommend that the council proceed as rapidly as practicable with the sewerage system in accordance with the report of the Health officer, estimated cost \$16,000.

FORT WILLIAM, ONT.—W. Ross invites tenders up to noon of the 20th inst. for placing foundation under Commercial Block, Clinton and Victoria street.—Plans have been prepared for a residence for Mr. Thomas Walsh.

PHOENIX, B. C.—Mr. Graves is the head of a syndicate which is arranging to supply the town with a waterworks system.—A considerable number of new buildings are under construction and projected.

NEW WESTMINSTER, B. C.—A. F. Cotton, P. L. S., and staff, are engaged on the survey of the proposed wagon road between this city and Lander. Construction work will begin immediately the survey is completed.

SPRINGHILL, N.S.—The architect of the militia department, accompanied by H. J. Logan, M.P., was in town a few days ago in connection with the preparation of plans and specifications for a new armoury building.

HULL, QUE.—The council will have plans prepared for a belfry to be erected on the town hall.—Tenders will be asked by the council for lighting certain streets of the town.—The Roman Catholic authorities propose to erect a new school building as soon as necessary funds can be secured. Expressions of opinions will also be obtained from the residents of Little Farm regarding the erection of another church.

MIDDLETON, N.B.—Mr. F. B. Wade, M.P., recently visited this town for the purpose of selecting a site for a new armoury building.

WELLAND, ONT.—The Standard Carpet Co., of Guelph, have notified the council that they are negotiating for the erection of a factory elsewhere.

NEWPORT, QUE.—The plans of G. C. Storey, architect, submitted in competition, have been accepted for a residence for Mr. J. S. Mitchell, of Sherbrook, to cost \$10,000. Same architect is preparing plans for a residence in Lennoxville.

ST. LOUIS DE MILE END, QUE.—The by-law to authorize the council to issue debentures for \$150,000 for public improvements after being read a second time has been referred to a solicitor for legal advice regarding certain amendments.

BROCKVILLE, ONT.—R. Dillon, architect, invites tenders until 4 p.m. of the 28th inst., for the erection of an addition to the General Hospital.—John Reynolds, of St. Louis, will erect a summer residence on island No. 17 in the St. Lawrence, four miles from Alexandria Bay.

CORNWALL, ONT.—The council gives notice of its intention to pass a by-law to raise the sum of \$25,000 to be given as a loan to Wm. Milner, Windsor, for the establishment of a wagon manufactory.—The council have adopted the engineer's recommendation for construction of granolithic sidewalks on a number of streets.

WINNIPEG, MAN.—Property owners on Kennedy street have petitioned the council to have that thoroughfare asphalted.—McKenzie & Mann are preparing to rebuild and extend the section of the Hudson Bay Railway from Winnipeg via Shoal Lake to Hudson Bay.—Mr. Wheeler, architect, has prepared plans for six room school building, two storeys and basement, brick, to be erected at Deloraine. Tenders for the building will be received until 8 p.m. of the 20th inst., by D. L. Livingstone, Deloraine, S.D.—A site has been chosen for the new municipal creamatory.

ST. JOHN, N.B.—Edward Manning, Secretary Board of School Trustees, will receive tenders until 5 p.m., August 1st, for \$25,000 worth of school debentures to run for 25 years and bear interest at 3-1/2 per cent. per year.—An agitation is said to be on foot for the erection of a new city hall building. Many of the aldermen are said to be favorable to the project.—The Imperial Dry Dock Co. have asked the council to appoint a committee to confer with Mr. John Kennedy, the company's engineer, regarding the proposed site for the dry dock in Carleton.—A fund has been started to be devoted to the erection of a church building for the use of the Adventists.—The city director of Public Works and street superintendent has made an exhaustive report to the council showing on what streets permanent pavements should be constructed. The estimated cost of the improvements is above \$100,000. It is proposed that the work be carried out during this and next year.

KINGSVILLE, ONT.—W. A. Smith, town clerk, will receive tenders until August 3rd for purchase of \$4,000 fifteen year 4 1/2 per cent. school debentures.

NORTH SYDNEY, C.B.—It is reported to be the intention of the Nova Scotia Steel & Coal Co. to erect during the coming winter a new pier at an estimated cost of \$2,000,000.

ST. THOMAS, ONT.—Bell & McCullin, civil engineers, will receive tenders until noon of the 20th inst., for cutting down and regrading Fingall Hill, township Southwold.

HOPE RIVER, P. E. I.—J. E. McDonald will receive tenders until the 30th inst. for the erection of a presbytery in connection with St. Anne's church, from plans by W. C. Harris, architect.

HAMILTON, ONT.—F. Stewart has been granted a permit for a brick dwelling on Queen street cost \$1,400.—A permit has been granted to Mark Avis for brick cottage on Stanley ave; and to G. B. Wilson for a brick dwelling on Hanna street, cost \$4,000.

QUEBEC, QUE.—A cloister chapel of the Ursuline Nuns, built in 1720, Johnstone's bakery at St. John's Gate and Bleak House, on the Grand Alley, are being torn down to be replaced by modern buildings.—Mr. Gobeil, Deputy Minister of Public Works, is to visit Quebec and consult with the premier of the province regarding improvements to wharves.—Sir Wilfrid Laurier, at an interview with the Quebec harbor commissioners, promised that the improvements that the commission have been urging in connection with the harbor would be carried out.

FREDERICTON, C. B.—Ladillois, chief commissioner Department of Public Works, invites tenders until 22nd inst., at noon, for rebuilding the superstructure of the Long Creek Bridge, York County, and for rebuilding Gaspereau Bridge and Back Creek Bridge, Petersville, Queens County.—The council are considering the advisability of installing a filtration plant for the water supply at probable cost of \$10,000.—A new steam boat company has been organized, of which James S. Neale is the president. A committee has been appointed to make contracts for the building of a new steamer, plans of which have already been prepared.

LONDON, ONT.—Steps are being taken to secure the building of a Nurses' Home in connection with Victoria Hospital.—A number of changes are to be made to the vaults of the Inland Revenue Department in the Customs House, including new combination doors and metal shelving.—Albert Jackson has been granted a permit for a brick dwelling on Oxford Street.—The council are undecided as to whether the water supply for Victoria Hospital should be obtained by the use of an electric pump or by a roof tank and stand pipe system.—Negotiations are still going on between the city council of St. Thomas and the solicitor for the Toronto syndicate with regard to the proposed extension of the street railway to Port Stanley.

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.

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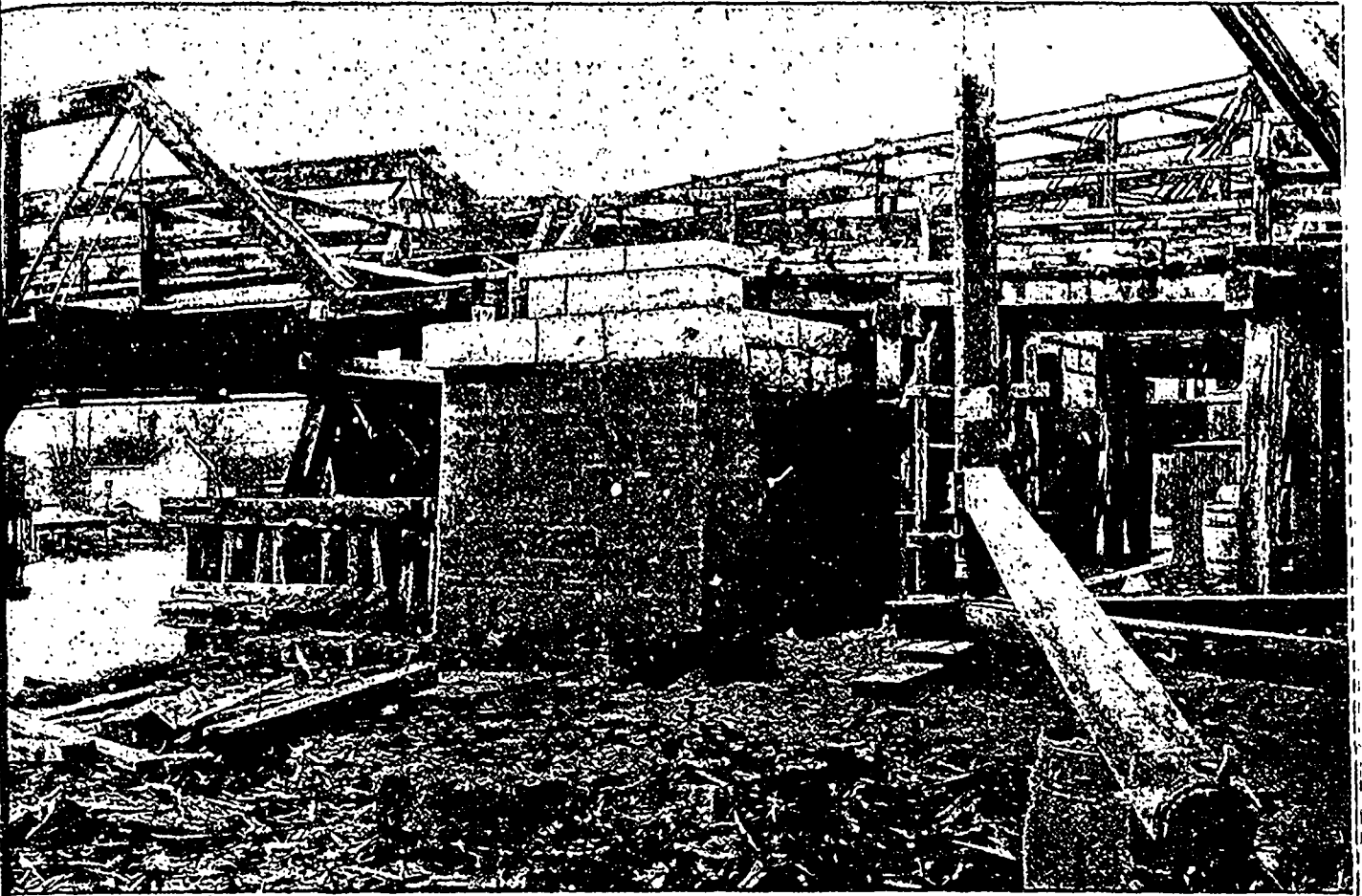
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BRIDGE CONSTRUCTION IN TORONTO

The city of Toronto has recently completed several new bridges of considerable importance. These include bridges over the Humber river and over the Don river at Eastern avenue and King streets. On this page is presented an east abutment of the Humber bridge, and in succeeding issues illustrations will be given of the bridges over the Don river, some of which will show in an interesting manner the work in process of construction. The illustrations are reproduced from the annual report of the city engineer.

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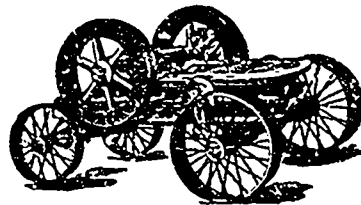
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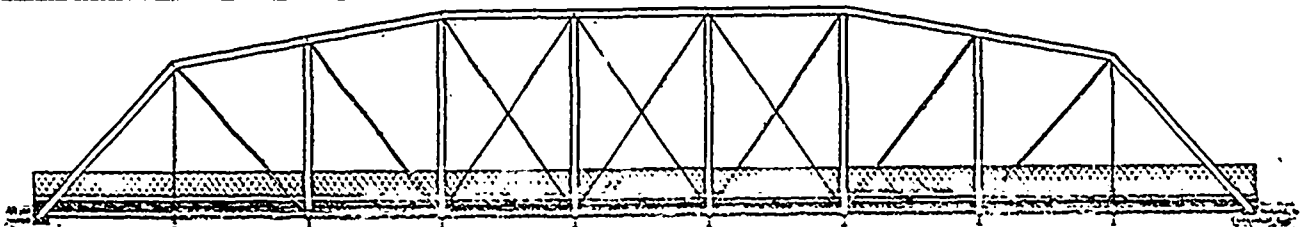
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ST. THOMAS, ONT.—The L. E. & D. R. R. purpose relaying the Erie & Huron division with 70 pound steel rails. The work will be done this fall.

VANCOUVER, B.C.—On the 6th inst. the ratepayers approved of a by-law for the extension of the waterworks system. By-laws for the erection of additional fire hall and new jail building were defeated. The Board of Health will interview the owner of the site selected by the Hospital Board for their new building and ascertain on what terms the land may be purchased. —A joint committee of the council and the library board has been appointed to select a site for a new library building.

VICTORIA, B.C.—It is stated that Mr. Lindsay, of Toronto, solicitor for the Crows Nest Southern Railway, has arranged with the British Columbia government to have construction work begin at once.—The paving of Government street will be deferred until next spring.—Local architects are to be invited to submit competitive designs until the 22nd inst. for a new school building to be erected on Fernwood road. The building will contain six class rooms, each with an area of 660 superficial feet.

OTTAWA.—A. M. Calderon, architect, invites tenders until noon of the 19th inst. for building a residence on Metcalf Street.—Ground has been broken for the new St. Patrick's Hall, to cost \$18,000.—The Canadian Immigration authorities are said to be endeavoring to secure the removal to the Canadian North West of a large glass manufacturing company now located in Indiana.—A new astronomical observatory is to be located at the north end of the experimental farm. Construction is to be commenced forthwith.—Building permits have been granted as follows: J. Shearer, jr., brick veneered dwelling, 5 Patterson Avenue, \$1,200; R. Le-fair, double brick house, Nelson street, \$1,300; Hon. C. Sifton, addition to dwelling, Cooper street, \$5,000; J. & T. Gagnon, row of frame dwellings, Division street, \$4,000; Thomas Hastey, brick veneered dwel-

ling, McLeod street, \$1,600; Daniel O'Connor, jr., three brick shops and dwellings, Cambridge street, \$7,000; D. O'Connor, jr., six brick veneered dwellings, Catherine street, \$4,000; James Walker, two brick dwellings, Fourth avenue, \$1,600; D. Gagnon, double frame dwelling, Henderson avenue, \$1,500; Napoleon Boucher, solid brick shop and dwelling, Catherine street, \$5,000; St. Patrick's Literary and Scientific Society hall, Maria street, \$13,500; Joseph Derocher, brick veneered dwelling, Chapel street, \$1,000.—Ald. Dearing has purchased the corner lot at McLaren and McDonald streets, and R. A. Fitzsimmons, a lot on Hickey street.—Monsignor Routhier is looking into the question of the necessity of erecting a new church at some point between Montebello and St. Andre Avelin.—It is stated that no provision has been made in the new court house building

at Hull for the county registry office, and it may be found necessary to erect a new building.—The promoters of the proposed Chaudiere Hotel have secured an extension until the 1st of September of the option of a site selected for the building. There is every probability that the undertaking will be completed.

MONTREAL, QUE.—The council have decided to call for new tenders in September for the city lighting.—The Fire and Light Committee, as a result of a recent inspection, have decided that it would be advisable to erect a new fire hall to take the place of Nos. 3 and 13 now rented in the city.—The Harbor Board have decided to invite tenders from contractors for the construction of a steel grain elevator of a million bushels capacity.—A site has been selected in front of St. James' Church, St. Denis street, on which to erect a new

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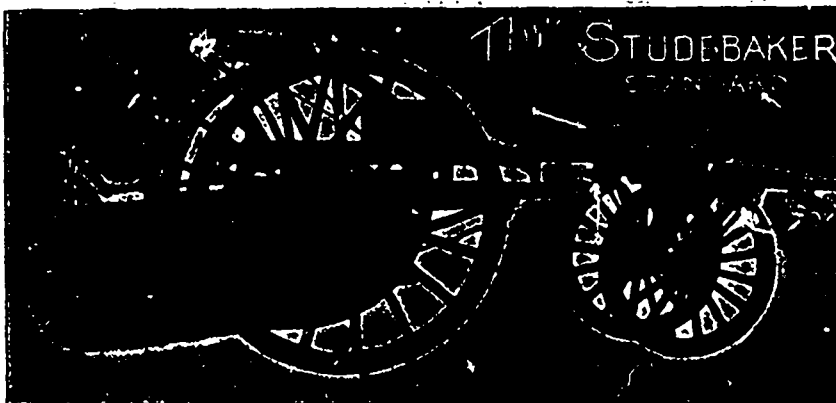
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polytechnic school in connection with Laval University. — The Montreal Board of Trade have decided to reconstruct their building which was some time ago destroyed by fire. A committee, consisting of the past presidents of the Board, have been appointed to supervise the undertaking.—Building permits have been issued as follows: Noe Leclaire, eight two-storey houses, St. Andre street, cost \$1,200 each; G. Leveille, two-storey house, Mentana street, cost \$1,200; A. Huot, two-storey house, Mentana street, cost \$1,200; P. Demess, two-storey house, Mentana street, cost \$1,200, Cadieux & Biard, two-storey house, Mentana street, cost \$1,200; A. Chartrand, two-storey house, Mentana street, cost \$1,200; N. Baileau, two-storey house, Mentana street, cost \$1,200; N. Rochon, two-storey house, St. Andre street, cost \$1,200; Bank of Montreal alterations to a building, 362 Peel street, cost \$15,000; S. P. Shorey, alterations to a store, St. Henry and Notre Dame streets, cost \$2,000; M. P. McGaldrick, three-storey house, Sussex street, cost \$3,000; M. P. McGaldrick, three-storey house, Sussex street, cost \$3,600; A. R. Whittall, two-storey building, Mullins street, cost \$2,000; A. Guilbault, two-storey house, St. Andre & Breuille streets, cost \$1,600; James Coristine, six-storey building, St. Paul, St. Nichols and Lemoire streets, cost \$100,000, H. C. Stone, architect; Louis Dupre, two-storey house, Caniere street, cost \$1,540.

TORONTO, ONT.—A citizen whose name is not made public has offered to give \$20,000 for a summer home for children if the city provides a site. The maintenance of the home will also be provided for. Assessment Commissioner Fleming recommends a site in High Park.

In accordance with the recommendations of the Minister of Public Works regarding the improvement of Toronto harbor, the representatives of the City Council, the Harbor Board and the Board of Trade have considered the question and recommended the passage by the Council of a resolution engaging that in the early future the city will provide some other mode of sewage disposal than that of discharge into the harbor, and that all sewage deposits in the meantime emptied there shall be removed. The Council is further urged to request the Government to take the measures for altering the harbor recommended by the engineer of the Public Works Department and the engineer acting for the city, whose joint report is in

the hands of the Government.—The City Engineer in his report regarding methods of sewage disposal recommended an intercepting trunk sewer to discharge into the lake three miles east of the city limits. This would cost \$1,750,000 to establish and \$17,000 annually to maintain.—Funds are being raised with which to erect a residence for the widow of the late County Constable Boyd. — Messrs. Smith & Aldridge have prepared plans for sewerage works at Cobourg, to cost \$20,000.

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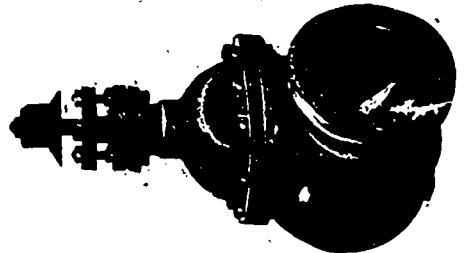
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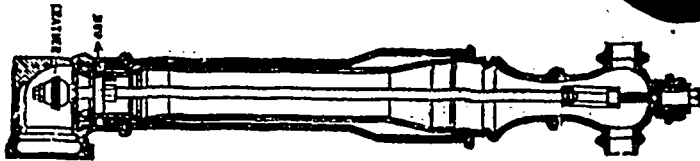
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FIRES.

James Dunbar's saw mill Sunbridge, Ont., burned July 11th; loss \$3,000, no insurance.—Three storey brick building of the Woodburn-Sarven Wheel Co., St. Catharines, Ont., partially burned July 9; loss \$10,000, fully insured.—Office of G. H. Perley Lumber Co., Calumet, Que., burned July 9.—Residences of E. G. Parnell and James A. Tingley at New Westminster, B. C., burned July 5th.—Meadow Lily Mill, London, Ont., owned by Litt's Proud & Sommerville, of Watford, burned July 12; loss \$14,000, insurance \$8,000.—Fire at Glencoe, Ont., on the 15th inst., damaged various buildings to the extent of \$5,000.—A bridge over the central railway near Norton, B.C. was destroyed by fire a few days ago.—A fire occurred at Warwick village, Que., on Sunday last, destroying the Grand Trunk cricht sheds and station and twenty-two other buildings. The loss is placed at \$75,000.

CONTRACTS AWARDED.

LEVIS, QUE.—Intercolonial railway station: J. Gosselin, contractor.

BRANDON, MAN.—Additions to Merchants Bank: John Forbes, contractor.

FORT WILLIAM, ONT.—Raising bank building: J. J. Beeton, contractor.

BRACEBRIDGE, ONT.—Power house building: John Baker, contractor, price \$3,067.

GODERICH, ONT.—Jail residence: Buchanan & Lawson, contractors, price \$2,800.

BRANTFORD, ONT.—Replacing Cock Shutt bridge over Grand River, Dominion Bridge Co., contractors.

GUELPH, ONT.—Physical and biological museum at Experimental Farm: Thos. Irving, contractor.

STRATFORD, ONT.—Steel bridge over Big Creek, Middleton Township, Stratford Bridge Co., contractors.

WINNIPEG, MAN.—Wellwood and Wascada branches of the C.P.R.; contractors, P. R. Lambe, Fisher & McCutcheon.

OTTAWA, ONT.—Contracts for new St. Patrick hall: Masonry and brick work, Matthew Whelan; plumbing and heating, McKink & Northwood; carpentering, Alex. Christie; electrical fixtures, O'Reilly & Murphy.

PETERBORO, ONT.—Excavation, masonry, concrete and brick-work of factory for the Canada Cereal Co., James Bogue, contractor, price about \$100,000; plumbing, Purdy, Mansell & Co., Toronto, contractors.

VICTORIA, B. C.—Caretaker's residence at pumping station: John Calder, contractor, price \$1,186.—Road leading

to site of Provincial Reformatory, Vancouver: Boyd & Clendenning, Vancouver, contractors, price between \$8,000 and \$9,000.

MONTREAL, QUE.—T. A. Morrison & Co., have been awarded the contract for supplying 25,000 white enamelled brick for the Royal Insurance Building; Wighton, Morrison & Co., contractors.—R. E. Gillespie & Co., Cote street, Paul, Que., have secured the contract for the sewer on Dufferin street: J. Emile Vanier, C. E.

VANCOUVER, B. C.—Cement sidewalk: W. S. Hurst, contractor, price 13 1/2 cents per ft., grading 1 1/2 cents per ft.—Iron pipe and waterworks supplies: Robertson & Godson Co., contractors, price \$45.50 per long ton, for piping; 50 hydrants at \$37.75; valves, 4 inch at \$7.50, 6 inch at \$12, 8 inch at \$16, 12 inch at \$53, and 32 inch at \$232.50.

FREDERICTON, N. B.—Steel superstructure bridge, Oak Bay, Charlotte County, American Bridge Co., Montreal contractors, bridge over Tobique river at Plaster Rock, A. F. Syne, Hampton, contractor: rebuilding bridge near Tracey Station, Sunbury County, Joseph A. Noble, Rusiagornish, contractor: rebuilding Loder Creek, bridge same county, Winslow Chase, Sheffield, contractor.

TORONTO, ONT.—The Board of Control have awarded the following contracts:—Ashalt pavement, Howland avenue,

Barton avenue to city limit. Constructing & Paving Co., land asphalt, \$11,600. Pitch Lake asphalt was \$1,200 more.—Concrete Sidewalks—Leopold street, both sides, Jameson to Dowling, W. R. Payne, 48c per lineal foot; Classic avenue, both sides, Huron street to east end, W. R. Payne, 38c; Brunswick avenue, west side, Bloor to Wells, A Gardner & Co., 49c; Sussex avenue, south side, Huron to Spadina, A. Gardner & Co., 49c; Bloor street, north side, St. George to Walmer road, A. Gardner & Co., 59c.—Macadam Roadways—Avenue place, Avenue road to Hazelton avenue, A. Chamberlain, \$1,058; Huron street, Bernard to Dupont, Constructing & Paving Company, \$3,589; Parliament street, King to Mill, Dominion Paving & Contracting Company, \$2,871. Tar macadam, Cawthra square. Constructing & Paving Company, \$873.—Brick Pavements—Springhurst avenue, King to Jameson, Constructing & Paving Company, \$6,496; Stewart street, Portland to Bathurst, W. Grant & Co., \$3,690.

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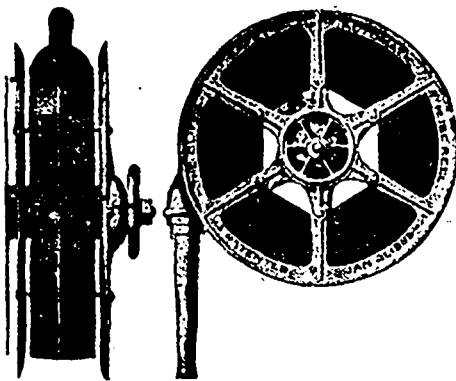
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OILED ROAD CONSTRUCTION.

Mr. T. F. White, of Chino, Cal. in a recent article in the Redlands "Citrograph" gives the following description of the method of using oil in the construction of one and one-half miles of road :-

The road was entirely new, never before graded, and passed at first through bottom land, with soil varying from loose sand to clayey loam, then it struck a hill around and up which the road ascended on a grade of 4.5 per cent. After passing the hill a piece of adobe soil was encountered, which works into deep mud when traveled over after rains in winter. The cost of grading, especially around the hill, was rather heavy. This was done in the early spring. A roadway 40 feet wide including ditches was thrown up through the bottom, and 24 feet around the hill. Through the bottom, which sometimes gets very wet in winter, the roadbed was thrown up a good height and crowned, and well ditched on either side to secure drainage. It was also rolled. No part of the distance had material that would make a satisfactory roadbed for the large travel it would have to accommodate. When grading over the hill a deposit of oil-sand or disintegrated oil sand-stone was found. This material had been tried the year before on a bit of road, and found excellent. It is a sharp sand and gravel with sufficient clay in its composition to cause it to pack down firm and hard, when properly reated, with good wearing qualities, and it is a natural absorbent of oil. It becomes sticky and cuts up, however, in winter, without oil. The one and a half miles of road previously graded was surfaced with this gravel in the summer and early fall,

after the roadbed had become well settled and packed down. Stakes were set for a graveled way 20 feet wide along the middle of the road, and a blade-grader threw the dirt out of this way to a depth of 3 or 4 inches, forming a shoulder on either side 8 or 9 inches high for the surfacing material to abut against.

Upon this foundation the gravel was spread to the depth of 9 inches in the centre down to 8 inches on either side. The foundation was watered ahead of the spreaders to keep it firm and cause the gravel to unite with it better. After the gravel was spread and smoothly shaped, the water-carts soaked it thoroughly, wetting it entirely through. To do this a heavy orchard cultivator was run over it, while the water was being put on. This opened it up and allowed the water to go down instead of running off. The cultivator was kept going after sufficient water was put on, until the surfacing material was worked into a homogeneous mass of the consistency of mud for making brick. The wetting down and cultivating or stirring was done in one day, a section of such length being taken that this part of the work could be finished on that section in one day. Next morning a lever harrow was put on to smooth over and shape up the surface. This required a man with a good eye and some expertness to get the road even and properly crowned. He finished his work during the forenoon,

and it being good drying weather, the roller went on in the afternoon. All of these steps are important, but one of the most important is rolling. On this work there was used a roller weighing 1,600 pounds to the foot width, without loading. This is about right for rolling such a road the first two days, or as long as it is at all spongy. As soon as all sponginess is gone the roller can be weighted. Half-pigs of iron were used, which are convenient to handle, and enough were put on to make finally a weight of 3,000 pounds to the foot. The rolling was continued from day to day until no further impression could be made and the surface was left hard and smooth. After the roadbed dried out, or at least to a depth of 2 inches, the oil was applied, first sending a man over the road with rake and broom to brush off all loose matter from the surface.

(To be continued next week.)

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R. J. McCullough, plumber, Pat Portage, Ont., has sold out to A. T. Fife & Co.

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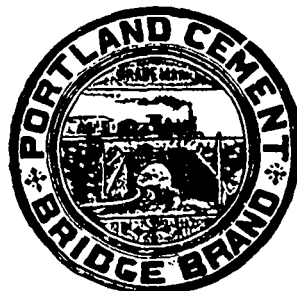
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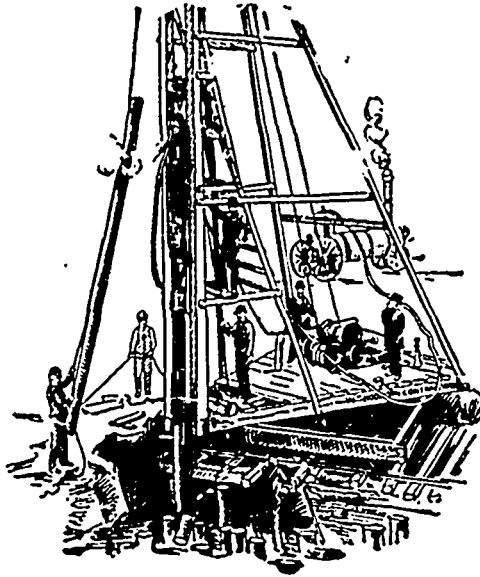
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