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CANADIAN CONTRACT RECORD

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

EVERY WEDNESDAY

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

VOL. 10.

MARCH 15, 1899

No. 7.

THE CANADIAN CONTRACT RECORD, PUBLISHED EVERY WEDNESDAY

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

Advertising Rates on application.

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Tenders for Supplies

Tenders, addressed to the undersigned, in care of the City Clerk, Brantford, and marked "Tenders for Supplies" will be received up to 12 o'clock, noon, on MONDAY, MARCH 20TH, 1899, for the supply of the following materials required by the Board of Works Department of the City of Brantford:

- | | |
|-----------------|----------------|
| 1. LUMBER. | 4. SPIKES. |
| 2. CEDAR POSTS. | 5. SEWER PIPE. |
| 3. OAK PLANK. | 6. CEMENT. |

according to specifications to be obtained on application to the City Clerk, Brantford.

Parties tendering for spikes are asked to give a separate price for spikes manufactured in Brantford. The lowest of any tender not necessarily accepted.

W. G. ELLIOTT,

Chairman Board of Works.

Brantford, February 25th, 1899.

TENDERS FOR

Waterworks Supplies

Sealed Tenders, addressed to the Chairman of the Fire, Water and Light Committee, will be received at the office of the undersigned up to 6:30 p.m. on

Monday, April 3rd, 1899,

for the supply of the following materials:

- 100 tons Pig Lead.
- 75 tons Lead Pipe.
- 2000 Corporation Cocks.
- 2000 Sidewalk Cocks.
- 2000 House Stop and Waste Cocks.
- 2000 ½ in. Meters.
- 200 ½ " "
- 100 1 " "
- 20 2 " "

Specifications and forms of tender may be obtained at the office of H. N. Rutan, City Engineer, Winnipeg. Each tender must be accompanied by an accepted cheque or cash deposit for the sum called for in the form of tender supplied which will be subject to forfeiture in case of failure on the part of the Contractor to enter into a written contract if called upon to do so. If an accepted cheque is submitted it must be payable at par in Winnipeg or be for an amount sufficient to cover exchange over the sum called for in the form of tender supplied.

No tender necessarily accepted.

C. J. BROWN,
City Clerk

City Clerk's Office, Winnipeg, Man., Feb. 25, 1899.

TENDERS

For the making of plan and specifications for a System of Sewerage for the Town of Aylmer, Pro. Que. will be received by the undersigned up to noon, the 15th INSTANT.

The lowest or any tender not necessarily accepted.

J. J. E. WOODS, Mayor.

Aylmer, 9th March, 1899.

Any information can be had by writing to the undersigned.

J. T. WHELAN,
Secretary-Treasurer.

NOTICE TO CONTRACTORS

WATERWORKS AND SEWERAGE For Prescott, Ontario.

Sealed Tenders, addressed to the undersigned will be received until 8 p.m. on SATURDAY, THE 25TH DAY OF MARCH, 1899.

Plans, specifications and all other information can be obtained at the Commission's Office, Prescott, or at the office of the Consulting Chief Engineer, Canada Life Building, Toronto, also at Ottawa.

Proposals must be made in the proper form furnished, and accompanied by accepted bank cheque for seven per cent. of tender, payable to the Treasurer of the Corporation, which will be retained as security, in the case of accepted offer, until work is fully completed to the satisfaction of the engineer.

The lowest of any tender not necessarily accepted.

JOHN RANEY, Secretary,
Board of Water Commissioners.

Prescott, 6th March, 1899.



NOTICE TO CONTRACTORS

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, MARCH 29, 1899, for the construction of the following pavements:

ASPHALT PAVEMENT:

On Queen Street, from John to Yonge Street.

MACADAM PAVEMENT:

On Washington Avenue, from Spadina Avenue to Huron Street.

On Division Street, from Spadina Avenue to Huron Street.

BRICK PAVEMENT:

On Yonge Street—track allowance, from Davenport Road to C. P. R.

CONCRETE SIDEWALKS:

On Yonge Street west side, from Yorkville Avenue to Davenport Road.

On Sussex Avenue, north side, from St. George Street to Huron Street.

Plans and specifications may be seen, and forms of tender obtained, at the office of the City Engineer, Toronto, on and after Wednesday, March 15th 1899.

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 \$10,000, and 2½ per cent. on the value of the work tendered for above 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.

JOHN SHAW (Mayor),
Chairman Board of Control.

City Hall, Toronto, March 9, 1899.

CONTRACTORS RESPECTFULLY INFORMED that under signed is prepared to assist in preparing estimates, by department Carpenter in particular. W. FRASER, 21 Cinton Street, Toronto.

TO CONTRACTORS

Tenders will be received up to noon of the 25th INSTANT, for all trades required in the erection of a Presbyterian Church at Oshawa, Ont.

Plans and specifications may be seen at the office of Mr. W. J. Hare, Oshawa (to whom all tenders are to be addressed), and also at the office of J. W. Siddall and G. W. King, Associated Architects, 75 Yonge Street, Toronto.

The lowest or any tender will not necessarily be accepted.

Oshawa, March 11th, 1899.

TENDERS WANTED

Sealed Tenders will be received by the undersigned up to noon on FRIDAY, THE 24th DAY OF MARCH for the Court Room, Office and Vault Furniture and Fixings and Gas and Electric Fixtures and Hardware required in Elgin County Court House.

Specification and other particulars may be obtained at office of N. R. Darrach, Architect, St. Thomas.

K. W. MCKAY Co. Clerk,
St. Thomas, Ont.

TENDERS FOR ELECTRIC LIGHTING PLANT TOWN OF PICTON, ONT.

Sealed Tenders addressed to R. A. Norman, Town Clerk, Picton, Ont., will be received until 2 o'clock p.m. on TUESDAY THE FOURTH DAY OF APRIL, 1899, for the supply of the following machinery required by the Corporation:

ALTERNATOR—2,000 Volts, 120 Kilowatts Capacity.

TRANSFORMERS—10,000 Lights Capacity, assorted sizes.

STEAM ENGINE Low Speed 125 h.p. Capacity

SUPPLIES—Weatherproof Wire, Insulators, Cross arms, etc.

Copies of specifications and all information can be had on application to the undersigned.

The lowest of any tender not necessarily accepted.

RODERICK J. PARKE,
Consulting Electrical Engineer,
310 Temple Bldg, Toronto, Can.

TENDERS

FOR THE

SUPPLY OF AN ASPHALT PLANT

Sealed Tenders, addressed to the Chairman of the Committee on Works for the supply of the whole or any portion of the Machinery for the establishment of an Asphalt Plant for the City of Winnipeg, will be received at the office of the undersigned up to 8.30 p.m. on

Wednesday, March 22nd, 1899.

Specifications and forms of tender may be obtained upon application at the office of Col. H. N. Rutan, City Engineer.

Each tender must be accompanied by an accepted cheque or cash deposit for the sum called for in the form of tender supplied, which will be subject to forfeiture in case of failure on the part of the Contractor to enter into a written contract if called upon to do so. If an accepted cheque is submitted it must be payable at par in Winnipeg, or be for an amount sufficient to cover exchange over the sum called for in the form of tender supplied.

No tender necessarily accepted.

C. J. BROWN,
City Clerk

City Clerk's Office, Winnipeg, February 16th, 1899.



TENDERS FOR GENERAL SUPPLIES

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

Monday, March 27th, 1899,

FOR GENERAL SUPPLIES

for the year ending December 31st, 1899.

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

Specifications may be seen and forms of tender obtained at the office of the City Engineer, Toronto.

A market cheque payable to the order of the City Treasurer, Toronto, for 5 per cent. of the amount tendered for up to \$1,000, and 2½ per cent. of the amount over that sum, must accompany each and every tender, otherwise it will be ruled out as informal.

The lowest or any tender not necessarily accepted

JOHN SHAW (Mayor),

Chairman Board of Control.

Toronto, March 12, 1899.

CONTRACTS OPEN.

CROYDON, ONT.—The building of a new church is spoken of.

REGINA, N. W. T.—The town will borrow the sum of \$10,000.

OUNGAH, ONT.—It has been decided to build a new school house.

CASSELMAN, ONT.—Joseph Coupal is preparing to build a flour mill.

STROUD, ONT.—Walter Patterson purposes building on his property.

APPLIDORE, ONT.—Samuel Shaw is preparing to erect a new residence.

NORTH STANBRIDGE, QUE.—It is proposed to enlarge the Catholic church.

HINTONBURG, ONT.—A new rectory may be built for the Anglican church.

MAXVILLE, ONT.—The Baptist congregation purpose building a new church.

BALA, ONT.—It is reported that a new hotel, to cost \$25,000, will be erected at Bala Park.

BRAMPTON, ONT.—The town will issue debentures for \$10,000 to pay for road improvements.

GANANOQUE, ONT.—The council will shortly take up the question of building a new town hall.

CARBERRY, MAN.—A. J. Rollins, of Exeter, Ont., is considering the building of a flour mill here.

VALLEYFIELD, QUE.—The directors of the Montreal Cotton Co. have resolved to enlarge the picker's room.

LOMBARDY, ONT.—The Roman Catholic congregation are preparing to build a new church next summer.

ARNPRIOR, ONT.—The town will engage an engineer to prepare plans for the proposed waterworks system.

THORNHILL, ONT.—E. Gallanough has purchased property on Yonge street on which he purposes building.

DARTMOUTH, N. S.—L. P. Bender has submitted to the council a proposition to establish abattoirs at this place.

ALMONTE, ONT.—The council has passed a by-law authorizing the issue of \$2,100 of 4 per cent. debentures.

PORT ELGIN, ONT.—An electric railway from this place to Southampton, a distance of three miles, is talked of.

SARNIA, ONT.—The Sarnia Stove Works will be enlarged by an addition 36 x 40 feet, and a cupola house 24 x 100 ft.

ST. CROIX, N. B.—The St. Croix Water Power Company will seek incorporation at the next session of the provincial legislature.

STONY LAKE, ONT.—Mr. J. A. Culverwell is interesting a Toronto syndicate in the erection of a large summer hotel at this place.

ENNISKILLEN, ONT.—R. J. Parke, lot 14, 7th concession, will receive tenders up

to Monday, the 20th inst., for repair of the Stinson drain.

SYDNEY, N.S.—It is stated that H. M. Whitney has purchased the Brookvale property near here and will erect a \$50,000 residence.

PEMBROKE, ONT.—The council has decided to sell the steam fire engine and purchase an extra waterworks pump or a new fire alarm bell.

MILTON, ONT.—Tenders are invited by William Panton, county clerk, up to 18th inst. for alterations and seating in the court house in this town.

BROCKVILLE, ONT.—W. B. Smellie, town engineer, wants tenders by the 16th inst. for furnishing 100,000 feet of white pine plank and cedar sills.

SEAFORTH, ONT.—Rev. Father McCabe invites tenders up to the 20th inst. for the erection of a presbytery; H. J. Powell, of Stratford, architect.

PARRSBORO, N.S.—W. W. Fisher, the United States pulp expert, has recommended the erection here of three 35-ton mills, with a paper mill in connection.

PALMERSTON, ONT.—The by-law guaranteeing \$25,000 of debentures of the Farmers' Co-operative Pork Agency Co. was carried by the ratepayers on Monday.

TRURO, N.S.—J. J. Taylor, C.E., has a staff of engineers surveying the proposed Hervey railway, which will extend from Shelburne to Liverpool and New Germany.

WELLAND, ONT.—Tenders for pine and oak plank and cut spikes are wanted by the town by the 20th inst. Address, C. H. Reilly, chairman Roads and Bridges Committee.

BELLEVILLE, ONT.—Negotiations are still in progress for the purchase of the Belleville Street Railway by an English syndicate. If carried out, the road will be extended.

BAIE VERTE, N. B.—An American named C. E. Ripley is organizing the Baie Verte Curing Company, the intention being to erect several establishments along the coast.

VANKLEEK HILL, ONT.—The Presbyterian congregation have decided to take steps at once to erect a new church, with seating capacity of 600. Rev. John McLeod is pastor.

OSHAWA, ONT.—W. J. Hare is prepared to receive tenders up to the 22nd inst. for erection of Presbyterian church, from plans prepared by Siddall & King, architects, Toronto.

WOODSTOCK, N.B.—It is reported that New York capitalists have secured the charter of the St. John Valley Railway, and that they will build the road between this town and Fredericton.

BRADFORD, ONT.—A deputation from this vicinity have requested the Ontario Legislature to deepen the entrance to the Severn river and remove the obstructions to the waters of Lake Simcoe.

GRANBY, QUE.—It is said that a new hotel will be built at the corner of Johnston and Main streets.—The Granby Waterworks Company will construct a main from the mountain to the reservoir.

SHELburne, ONT.—F. H. Silk, Secretary School Board, wants tenders by the 18th inst. for building an eight-roomed school, plans for which were prepared by J. Francis Brown, architect, Toronto.

RUSSELL, ONT.—John Kincade, of the Commercial hotel, is preparing to build a three storey brick hotel, with stone basement.—G. Kaden, Arthur Morris, and H. Pelton will each build new dwellings in the spring.

HALIFAX, N. S.—An act to incorporate the Marlborough Hotel Co. is now before the provincial legislature, B. F. Pearson, W. B. Ross and others being interested. It is proposed to build a new hotel at Marlborough.

INVERNESS, N. S.—Peter Ryan, of Toronto, and his associates, have secured nearly all the coal areas at Port Hood. This is looked upon as evidence that the Inverness and Richmond railway will be constructed at once.

OWEN SOUND, ONT.—The by-law to loan \$15,000 to the North American Bent Chair Company to assist them in rebuilding their factory was carried by the ratepayers on Saturday. Rebuilding will commence immediately.

QUEBEC, QUE.—It is reported that a large hotel is to be built in the centre of St. Rochs.—The city wants tenders by the 23rd inst. for stone, stone and brick pavements and sidewalks, retaining walls, gully walls, nails, deals, etc.

LIVERPOOL, N. S.—The Acadia Pulp Company talk of erecting a paper mill at Milton.—Tenders are out for the construction of the dam for the new electric light plant. The station will be built about one mile above Milton.

ST. CATHARINES, ONT.—The Building Committee of the Public School Board has been instructed to report upon the advisability of erecting a new school in St. Patrick's ward, also to obtain the probable cost of heating and ventilating the existing school buildings.

SOREL, QUE.—Mr. A. P. Bruneau, M. P., announces that it is proposed to erect two large grain elevators at this place. The promoters of the South Shore railway are also said to be preparing to proceed the spring with the work of connecting Sorel and Levis.

PETERBORO, ONT.—The school board is considering the question of erecting a new collegiate institute.—H. P. Kennedy has organized the Peterborough Live Stock Company, to establish live stock markets in this town.—The erection of the building for the Stanley Piano Company, of Toronto, will be proceeded with at once.

VICTORIA, B. C.—The old post office building has not yet been sold by the Dominion Government, and it is probable that it will be fitted up as offices for rental.—Wm. W. Northcott, purchasing agent for the corporation, wants tenders by April 4th for the supply of 80,000 carbons, one gross clear arc globes, and one dozen ground glass globes.

PARRY SOUND, ONT.—The School Board is discussing the advisability of changing the heating apparatus of the public schools.—A deputation last week waited upon the Commissioner of Crown Lands and urged him to replace the present wooden bridge over the Seguin river in this town with a steel structure. Consideration was promised.

FREDERICTON, N.B.—Contractors are now figuring on the improvements and additions to the Pitts building. The front will be of plate glass and pressed brick, with brown stone trimmings. On the ground floor will be the offices of the Bank of Nova Scotia.—Messrs. Estey and Thompson, of this city, have decided to rebuild their saw mill at Shogomoc, lately destroyed by fire.—It is reported that Messrs. Clark will erect a new block, corner York and King streets.

CHATHAM, ONT.—The council is considering plans for remodelling the market building.—James L. Wilson & Sons, architects, want tenders by 7 p.m. of the 17th inst. for the erection of a brick residence, stone foundation, slate roof and hot water heating, to be erected on King street.—H. Macaulay has invited tenders for an addition, with basement: separate tenders for plumbing.—J. L. Wilson & Son, architects, have been commissioned to prepare plans for new school houses in Camden and Dover townships. Same architects have prepared plans for new residences for Henry Stephens, Chatham, and Jarvis Paul, of Dawn—Powell & Cars

well, architects, invite tenders up to Saturday, 25th inst., for the erection of three dwellings and one church. One dwelling is to be heated by hot water and the other two dwellings and church by hot air.

WINNIPEG, MAN.—J. H. G. Russell, architect, desires tenders by 4 p.m. of the 17th inst. for erection of brick warehouse on Bannatyne avenue for J. H. Ashdown. —It is estimated that street improvements for this year include ten miles of pavements, of which some will be asphalt, and 20 miles of water mains.—T. Burrows, M.P.P., will rebuild his saw mill at Pine river.—Mr. D. C. Cameron, manager of the Rat Portage Lumber Company, states that work on the new saw mill to be built in this city will not be commenced until next fall.

KINGSTON, ONT.—The question of paving the streets with vitrified brick has received some consideration by the council.—The city engineer has presented estimates to council which include the following: New walks, \$3,300; crossings, \$1,000; broken stone, \$5,950.—The Waterworks Committee has decided to construct a new water main up West street to Barrie street, at a cost of \$4,500.—It is probable that an aerial truck will be purchased.—T. O. Bolger, city engineer, invites tenders up to the 23rd inst. for the supply of plank, cedar sleepers, hardware, drain tile and junctions, etc.

HAMILTON, ONT.—The W. E. Sanford Manufacturing Company contemplate extending their premises, and have made application for permission to construct an arch over the alley in rear of their warehouse.—Wm. & Walter Stewart, architects, have been granted a permit for an addition to residence on James street south for A. T. Wood, M.P., to cost \$1,700.—Memorial windows will likely be placed in St. Mary's Cathedral in honor of Bishop Farrell, Bishop Crimmon, Bishop Carberry and Rev. Father Kelly.—The Board of Education will invite tenders at once for alterations to the Collegiate Institute building.

LONDON, ONT.—Moore & Henry, architects, have prepared plans for a large addition to the McClary Manufacturing Co.'s offices in Winnipeg.—The Wortman & Ward Company have decided to build a new factory, three storeys, cor. William and York streets.—John M. Moore, superintendent of waterworks, wants tenders by the 20th inst. for furnishing and laying cast iron water mains required during the year.—A deputation from this city last week waited upon the Minister of Militia at Ottawa, and urged that a new drill hall be erected here.—The council will be asked to make an appropriation of \$8,000 for the furnishing of the new Jubilee hospital.

VANCOUVER, B. C.—Henderson Bros. have broken ground for a new block on Hastings street. The Ames-Holden Company will also build on same street. The report is revived that the Great Northern Railway Company is about to build into Vancouver from New Westminster.—The Union Steamship Company have decided to build a new vessel, for which tenders will be invited immediately. It is probable that the contract will be let to a Vancouver boat builder, although the boilers and other machinery will be purchased in Scotland.—Ground has been broken on Cambie street south for a three storey transfer stable, 50 x 120 feet, to be built by the Vancouver Transfer Company. Thomas Lay has commenced work on a new hotel, to contain 100 rooms, to be built on Westminster avenue.

MONTREAL, QUE.—The Board of Protestant School Commissioners have decided to fit Mount Royal school with elec-

tric clocks.—A fund is being raised in the parish of St. Louis du Mile End to enlarge the church building.—It is probable that the Lachine Rapids Hydraulic & Land Co. will extend their dam, in order to obviate danger from ice blockade.—Mr. Janin is preparing plans and estimates for placing the McFavish reservoir in a better state of repair. The bottom is to be concreted and the walls made water tight, at a cost of \$60,000. Mr. Janin again calls attention to the need of increased pumping apparatus.—In the report which will be presented at the annual meeting of the C.P.R. on April 5th, the directors will be asked to approve of expenditures for improvements of permanent way aggregating \$1,150,979; for additional station, yard and terminal facilities at Montreal, Vancouver and other points, \$788,187; for the completion of air brake and automatic coupler equipment, \$305,010; for branch lines to mines in connection with the Crow's Nest line, \$300,000, and to authorize the purchase of rolling stock to the extent of \$1,000,000.

ST. JOHN, N. B.—To complete the Spruce lake water extension it will be necessary for the council to make another bond issue of \$10,000.—The building and property formerly occupied by Kane & Co. have been sold to Lake Bros., who, it is said, will erect a three-storey store building thereon.—The superstructure of the new People's Mission building on Waterloo street will be commenced immediately.—Nothing has as yet been decided upon by the C.P.R. regarding the building of a wharf at Sand Point. The prospects are bright, however, for the work being carried out.—H. H. Mott, architect, has just taken tenders for remodelling a building for A. B. Akerley, and for building a barn.—R. C. John Dunn, architect, of this city, is preparing plans for a stone public school building to be erected in Chatham.—The public hospital commissioners will ask the legislature for authority to raise \$5,000, to be expended in installing a modern heating and ventilating plant.—The elevator, for which tenders are now invited, will be 94 x 135 feet and built of yellow pine and Canadian red and white pine. It will be fitted throughout with electric bells, speaking tubes, etc.

OTTAWA, ONT.—James Davidson, proprietor of the Hotel Cecil, will during the coming summer build an addition containing 100 rooms.—There is a possibility that the Separate School Board will issue debentures for \$40,000.—The Anglican church people propose to erect a mission hall.—Davidson & Thackeray have decided to erect a large warehouse on Queen street.—The American Bank Note Company propose to extend their building through from Wellington street to Sparks street, at a cost of \$150,000. New machinery will also be added.—Mr. J. L. Pitcombe, of New York, representing a syndicate of publishers, states that it is proposed to establish a large paper mill at Britannia, at a cost of \$200,000. It is rumored that electric power will be used.—It is reported that a carbide factory will be erected on the site of the old Bronson and Weston mills. Mr. James Sutherland, M.P., is one of the principal promoters.—The Central Canada Fair Association have asked the Ontario Government to grant \$30,000 to extend the grand stand and the horticultural buildings, and build new stables.—Mr. Frank Richardson, with a staff of assistants, is about to leave for the Pacific coast, to commence the construction of a Government telegraph line from Skaguay to Dawson, distance 600 miles; estimated cost \$150,000.—The Salvation Army authorities propose to erect a new barracks this summer.—Tenders close on the 20th inst. at the Department of Public Works for the supply of poles and the construction of 113

miles of telegraph line in British Columbia.—The Carleton county council will likely build an addition to the court house.—Building permits have been granted as follows: J. M. Cromwell, six brick dwellings on Lisgar street, cost \$12,000; Richard Tobin, frame dwelling, College street, cost \$2,000; W. H. Fitzsimmons, frame dwelling, Third ave., cost \$1,000; Jean Lajoie, four frame dwellings, St. Patrick street, cost \$1,600; D. S. Sawyer, frame dwelling, Frank street, cost \$1,600.

TORONTO, ONT.—Over \$5,000 has been subscribed towards the proposed Working Boys' Home. The trustees have secured an option on a suitable site, and hope to be in a position to commence building operations at an early date.—Mr. W. E. H. Massey has purchased the Smart residence at 550 Jarvis street, and will expend about \$15,000 in alterations and additions thereto.—The Property Committee has decided to erect two pavilions on the lake shore of the island, at a cost of \$1,600.—Increased accommodation at MacMaster University is required, and a new chapel and library will likely be built in the near future.—The Minister of Education has declined to sanction the proposition of the trustees of Toronto University to convert the Technical School building into residential flats.—The Separate School Board have included in their estimates for 1899 the sum of \$45,000 for the erection of a new school either in South Parkdale or Toronto Junction.—A new church is being erected at 109 Chestnut street for the Austrian Jews.—The Ontario government has been asked to erect a dairy building on the Exhibition grounds. The request seems likely to be granted, as the Premier suggested that plans for such a building be prepared.—Plans are on view at the office of J. W. Siddall and G. W. King, associated architects, 75 Yonge street, of a Presbyterian church to be built at Oshawa, on which tenders are now being taken.—Plans of an eight-roomed school building to be built at Shelburne are on view at the office of J. Francis Brown, architect, Board of Trade building. Tenders close Saturday next.—The Shaftesbury Hall property, corner Queen and James streets, has been purchased by the Wm. Davies Company. Improvements to the building will in all probability be made.—A recommendation to construct a macadam roadway on a portion of Morse street has been referred back by the Board of Control, as has also one for an asphalt roadway on Major street. The City Commissioner has presented his estimates for 1899, which include \$3,500 for extending the Brock street dock and \$1,500 for erecting shelters at the Island.—Mr. Geo. C. Robb has made a report to the Property Committee of the Council regarding the steam boilers in use at the gaol. He contends that the two boilers are too small, and recommends that a large boiler capable of heating the whole building be put in.—The Railway Committee of the Ontario Legislature has passed bills incorporating the Haliburton, Whitney and Mattawa Railway Company, the Toronto, Lindsay & Pembroke Railway Company, and the Smith's Falls, Rideau & Southern Railway Company. The latter is to be an electric road extending from Smith's Falls to Merrickville.—The City Engineer has recommended the construction of the following pavements and walks. Asphalt pavements—on Close ave., between King and Queen, cost \$7,867; on Major street, between College and Bloor streets, cost \$25,508; on lane first south of Front street, from east side of Scott street, cost \$3,505; on Markham street, between College and Harbord street, cost \$14,954. Brick pavement—on Teraulay street, between Albert and College streets, cost \$20,061. Macadam roadways—on Morse street, from Queen to point 2,103 ft. south, cost \$7,422; Buchanan street, from Yonge to Teraulay street, cost \$2,209; West

Lodge ave., from Queen to point 240 feet north, cost \$625. Cedar block pavements—Broadview ave., from Queen to Gerrard, cost \$3714; St. Patrick street, from Spadina to Denison ave., cost \$2,412. Concrete walks—Jarvis street, east side, from King street to south limit of Victor Mission, cost \$2,509; Prince Arthur ave., north side, between Avenue road and Bedford road, cost \$781.—Building permits have been granted as follows: R. Gilpin, 2-storey and attic brick residence, 105 Ann street, cost \$4500; St. Hilda's College, new building on Crawford street, three storeys, brick, cost \$12,000.

FIRES.

Rathbun Company's warehouse at Gananoque Junction, Ont.; insured.—Residence of Captain J. W. Carter, at Salisbury, N.B.—N. N. Bentley's saw mill at Lower Five Island, Colchester county, N. S.; loss \$2,000.—Residence of John Conroy, jr., between Ottnabee and Doura, Ont.—Albion Hotel at Belleville, Ont., damaged to the extent of \$3,000.—Brunswick Hotel at Sorel, Que., owned by J. Morgan; loss \$45,000, insurance \$15,000.—W. G. Brown's residence at Killarney, Man.—Residence of John Coughlin at Acton Vale, Que.

WATER WORKS

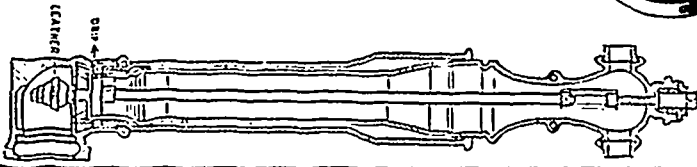
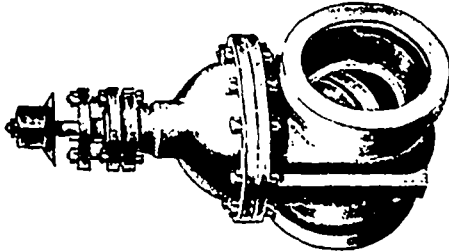
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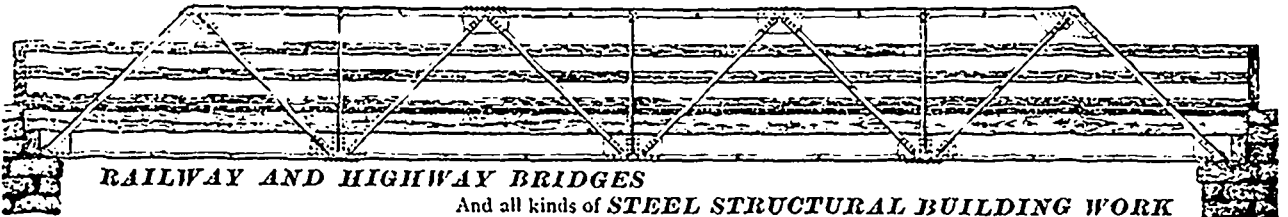
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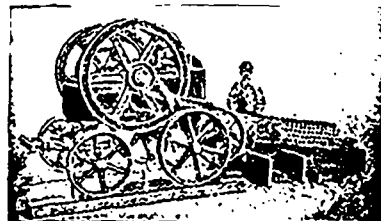
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CONTRACTS AWARDED.

VANCOUVER, B.C.—The contract for steam fire engine and Hayes hook-and-ladder truck has been given to the Watrous Engine Works Co., of Brantford.

ARTHUR, ONT.—The contract for building Presbyterian church has been let to Mr. Stephen, of Chesley, at the price of \$6,397, exclusive of slating, windows, heating and ceiling decoration.

FREDERICTON, N.B. Willard Kitchen, of this city, has been awarded the contract for the substructure of the new steel bridge to be erected across the Nashwaak at Marysvile; price, about \$10,000.

TORONTO, ONT.—The tender of Oakley & Holmes has been accepted for the excavation, masonry, brick and cut stone work of the new office building of the National Trust Co., 18 King street east; Geo. W. Gounlock, architect.

CHARLOTTETOWN, P.E.I.—C. B. Chappell, architect, has let the contract to Chas. Yeo for two fire-proof vaults in, and restorations to Parliament buildings in this city for the provincial government. Same architect has charge of the new wing to St. Dunstan's College, the contractors for which are Cochrane & Duffy.

ST. THOMAS, ONT.—The following tenders were received for \$40,000 county of Elgin 3½% 20-year debentures: G. A. Stimson & Co., Toronto, \$40,606 and accrued interest and \$10 exp.; G. W. Wood & Son, \$40,606 and accrued interest; W. H. Brouse, Toronto, \$40,506 and accrued interest and \$10 exp.; A. E. Jarvis, Toronto, \$40,178.08; S. O. Perry, \$40,021 accrued interest and \$10 exp.; Western Canada Loan & Savings Co., 100 less accrued interest; Imperial Bank, 99½; A. T. Drummond, Montreal, \$39,800; Hanson Brothers, Montreal, 99.05. The tender of G. A. Stimson & Co. has been accepted.

OTTAWA, ONT.—The corporation of Ottawa University have accepted the tender of L. J. Fauteux for the erection of the new museum and science building, at the price of \$38,000. Other tenderers were: Paquette & Godbout, St. Hyacinthe, \$52,000; Alexander Garvoek, Ottawa, \$49,970; Viau & Lachance, Hull, \$49,650; J. J. Lyons, Ottawa, \$44,889; Martineau & Prenoveau, Montreal, \$43,495; Joseph Bourque, Hull, \$42,750.—Mr. J. R. Booth has awarded to the Canadian General Electric Company, of Toronto, the contract for the complete electrical equipment of a power house to be erected at the Chaudiere.—The Metropolitan Electric Company have awarded the contract for their works at Britannia to Brewder & McNaughton, of this city. The work is to be completed by Nov. 15th.

BIDS.

HALIFAX, N. S.—Four tenders have been submitted for the supply of a municipal electric light plant. These will be opened in a few days.

QUEBEC, QUE.—Tenders were opened on Saturday last for the construction of the proposed bridge across the St. Lawrence. Four tenders were submitted, from the Carnegie Steel Company, of Pittsburg; Dominion Bridge Company, Montreal; Phoenix Bridge Company, Pennsylvania; and Union Bridge Company, New York. The contract will not likely be awarded for some time.

OTTAWA, ONT.—The following tenders were received by the Separate School Board for building a new school: Viau & Lachance, Hull, brick, \$15,800; stone, \$16,500. Joseph Bourque, Hull, brick, \$15,750; stone, \$15,300. J. A. Desrivieres and A. Giroux, brick, \$16,467; stone, \$18,522. Davis & Dufour, brick, \$16,557; stone, \$18,825. A. Charlebois, brick, \$16,590; Brouse & Froud, \$16,500. All the tenders are above the estimated cost, and as a result the contract has not yet been awarded.

MUNICIPAL DEPARTMENT

CONSTRUCTION OF MACADAM ROADS.

The following, though entitled "Building Macadam Roads," is in a large measure applicable to the work on many of our city streets, and is from circular No 31 of the U. S. Department of Agriculture:

The ever increasing demand for better highways has led to numerous attempts, which are being made all over the country, to build what are supposed to be "macadam roads." They are mentioned in the country budgets as well as in resolutions for the improvement of city streets, and the indulgent taxpayer, when his eye falls on the high sounding name, takes satisfaction in the idea that he is now to have highways of the most modern type. But, alas, the attempts to build stone roads are rarely successful, for, while much excellent material is often employed, the methods adopted are generally deplorable. In too many cases the men having the work in charge are content to simply deposit the stone upon the highway, frequently throwing it right into a muddy spot, and doing nothing further after the material has been put in place and spread. In many of the towns and cities where a road roller can be afforded the officials undertake to finish their work by placing a layer of dirt or gravel on top of the stone and then running the roller back and forth over the surface until it seems to be hardened.

All these attempts at building Macadam roads are failures, when regarded from the standpoint of intelligent and scientific road construction. To build a Macadam road the material should be put down in layers, and each layer separately rolled and compacted. To begin

with, the sub-soil, which is to serve as a foundation for the stone, must be properly crowned, sloping down from the middle to each side of the road, and then it must be rolled until it is absolutely hard. A soft earth bottom cannot support a stone roadway intended for ordinary heavy travel. When a road is built upon low ground it should be drained. Water finding its way beneath a macadam road, unless quickly removed by drainage, will soon ruin it. The stone used in each layer should be of uniform size as near as practicable. Unless the stone to be used has been properly broken the road can hardly be a success. No stone larger than 2½ inches should be used. If the bed of stone, when compacted, is to be more than four inches thick it should be put down in two or more layers, the material for the upper layer than that used below, say not larger than 1½ inches. Broken stone may readily be assorted by a rotary screen furnished with the stone crusher.

A common mistake is to spread gravel or dirt over a layer of stone before it is rolled, in the belief that it will help to compact it. The stone alone should be rolled. Under the pressure of a suitable roller of sufficient weight the angular pieces of stone will readily shift about until they are firmly wedged in place, while the round particles of gravel, or the smaller pieces will prevent their being thus ground together and compacted. A layer of very small stone, or screening, or fine gravel may be used in a separate layer on the surface after the rolling of the layers beneath is entirely completed. This will also fill the few remaining crevices at the top. The surface of the finished road could then again be rolled to make it hard and smooth, so that the rain and surface water will readily run off to the sides. If this water should penetrate into the road it is liable to soften the foundations. Water is the greatest enemy of good roads.

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Cedar for paving, per cord		5 00		5 00
Cedar for kerbing, 4 x 14, per M.		14 00		14 00
Scantling and joist, up to 16 ft		14 00		14 00
" " " " " " " " " " " "		15 00		16 00
" " " " " " " " " " " "		16 00		17 00
Scantling and joist, up to 22 ft		17 00		17 00
" " " " " " " " " " " "		18 00		19 00
" " " " " " " " " " " "		19 00		20 00
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1 1/2 in. flooring, dressed, F M	34 00	36 00	28 00	31 00
1 1/2 inch flooring, rough, B M.	18 00	22 00	18 00	22 00
1 1/2 " " " " " " " " " " " "	25 00	28 00	27 00	30 00
1 1/2 " " " " " " " " " " " "	28 00	29 00	18 00	19 00
1 " " " " " " " " " " " "	18 00	20 00	18 00	22 00
1 " " " " " " " " " " " "	12 00	15 00	12 00	15 00
Beaded sheathing, dressed	20 00	35 00	22 00	35 00
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XXX sawn shingles, per M				
16 in.	2 40	2 35		3 00
XX sawn shingles	1 60	1 50		
sawn lath, No. 1	1 75	2 00	2 50	2 00
Cedar		2 90		2 10
Red oak	30 00	40 00	30 00	40 00
White	37 00	45 00	35 00	55 00
Basswood, No. 1 and 2	38 00	30 00	18 00	20 00
Cherry, No. 1 and 2	70 00	90 00	70 00	80 00
White ash, No. 1 and 2	24 00	35 00	30 00	35 00

(Continued on Page 8.)

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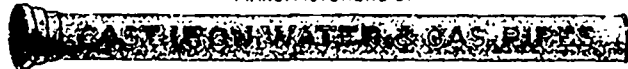
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Table with 4 columns: Item, Price in Toronto, Price in Montreal, and Price in Quebec. Includes Rubble, Brown Coursing, Brown Dimension, Grey Coursing, and Grey Dimension.

LONGFORD STONE.

Table with 4 columns: Item, Price in Toronto, Price in Montreal, and Price in Quebec. Includes Rubble, Ashlar, Dimension, Kent Free Stone Quarries, River John, and Quebec and Vermont rough granite.

Architects.

Ontario Directory... III

Quebec Directory... II

Architectural Sculptors and Carvers.

Holbrook & Mollington... I

Architectural Iron Work.

Dominion Bridge Co. I

Art Woodwork.

Southampton Mfg. Co. II

Artists' Materials.

The Art Metropole... II

Builders' Supplies.

Bremner, Alex. I

Currie & Co., W&F.P. x

Hercules Culvert Co. vi

Montreal Directory... ix

Ontario Lime Association... ix

Rice Lewis & Son... IV

Toronto Directory... ix

The Hardwood Lum. Co. III

Building Stone Dealers.

Amherst Red Stone Quarry Co. v

Brodie, James... v

Credit Forks Mining & Mfg. Co. v

Cleveland Stone Co. I

The Longford Quarry Co. v

Builders' Hardware.

Malleable Iron Co. vii

Rice Lewis & Son... IV

Contractors' Plant and Machinery.

Rice Lewis & Son... IV

Church and School Furniture.

Can. Office & School Furniture Co. III

Cements.

Bremner, Alex. I

Currie & Co., W&F.P. x

Owen Sound Portland Cement Co. IV

The Katanbu Co. IV

Oreosote Stains.

Cabot, Samuel... IV

Drain Pipe.

Bremner, Alex. I

Currie & Co., W&F.P. x

Hamilton and Toronto Sewer Pipe Co. x

Elevators.

Fensom, John... I

Leitch & Turnbull... I

Miller Bros & Toms... vi

Electrical Apparatus.

Barrie & Co., Alex. III

Engravers.

Can. Photo-Eng. Bureau... II

Fire Brick and Clay.

Bremner, Alex. I

Currie & Co., W&F.P. x

Folding Partitions.

Springer, O. T. II

Galvanized Iron Workers.

Ormsby & Co., A. B. I

Grilles and Railings.

Dennis Wire & Iron Co. vi

Malleable Iron Co. vii

Toronto Fence & Ornamental Iron Works. vi

Southampton Mfg. Co. II

Granite.

Brunet, Jos... v

Brodie, James... v

Heating.

Boston Blower Co. III

Dominion Radiator Mfg. Co. III

General Engin. Co. viii

Gurney, Tilden Co. iv

Ormsby & Co., A. B. I

Wallberg, E. A. x

Interior Decoration.

Elliott & Son Company vi

Lime.

Currie & Co., W&F.P. x

Ontario Lime Association... III

Luxfer Prisms.

Luxfer Prism Co. v

Legal.

Denton, Dods & Macdonnell... III

Quinn & Morrison... III

Mantles, Grates, and Tiles.

Chat. Rogers & Sons Co. vi

Holbrook & Mollington i

Mosaic Marble & Enamel Co. viii

Rice Lewis & Son... IV

Mail Chutes.

The Cutler Mfg. Co. ii

Mortar Colors and Shingle Stains.

Cabot, Samuel... IV

Muirhead, Andrew...

Ornamental Iron Work.

Dennis Wire & Iron Co. vi

Malleable Iron Co. vii

Toronto Fence & Ornamental Iron Works. vi

Painters.

Montreal Directory... ix

Toronto Directory... ix

Plasterers.

Hynes, W. J. ix

Paints and Varnishes.

Muirhead, Andrew... i

Parquetry Floors.

Elliott & Son Company vi

Plate Glass.

Lyon, N. T. i

The Consolidated Plate Glass Co. ii

Plumbers.

Montreal Directory... ix

Toronto Directory... ix

Reflectors.

Frisk, I. P. ii

Reversible Windows.

Duval & Co, E. ix

Roofers.

Campbell & Gilday... ix

Luthie & Sons, G... ix

Forbes, D... ix

Nicholson & Co, D... ix

Ormsby & Co., A. B. I

Rennie & Son, Robt. I

Stewart & Co., W. T. ix

Williams & Co., H. ix

Roofing Materials.

Ormsby & Co., A. B. I

Metallic Roofing Co. 41

Sanitary Appliances.

Garth & Co. vi

Ideal Mfg. Co. ii

Toronto Steel Clad Bath & Metal Co. vii

The James Morrison Brass Mfg Co. vi

Stained and Decorative Glass.

Horwood & Sons, H. I

Lyon, N. T. i

Lonard, B. i

MacKay Stained Glass Co. i

McKenzie's Stained Glass Works. i

Reardon's Art Glass Works. i

The Robert McCausland Stained Glass Co. i

Wood & Co. i

Shingles and Sliding Metallic Roofing Co.

Ormsby & Co., A. B. I

Sold Pipe.

Toronto Foundry Co. III

Typewriters.

Archib'd, Chas E... III

Ventilators.

Boston Blower Co. III

Wallberg, E. A. x

Wall Plaster.

Albert Mfg. Co. IV

Wire Lathing.

The B. Greening Wire Company... viii

Table with 4 columns: Item, Price in Toronto, Price in Montreal, and Price in Quebec. Includes Ornamental work, Granite paving blocks, Granite curbing stone, and Slate.

SLATE.

Table with 4 columns: Item, Price in Toronto, Price in Montreal, and Price in Quebec. Includes Roofing (square), White lead, Red lead, Vermillion, Indian, Yellow ochre, Yellow chrome, Green chrome, Paris, Black lamp, Blue ultramarine, Oil linseed raw, Oil linseed refined, Putty, Whiting, Paris white, Litharge, Sienna, Umber, and Turpentine.

PAINTS. (In oil, 1/2 lb)

Table with 4 columns: Item, Price in Toronto, Price in Montreal, and Price in Quebec. Includes Portland Cements, German, London, Newcastle, Dyckerhoff, North's Condor, English, Belgian, Canadian, Roman, Parian, Superfine, Hydraulic Cements, Thorold, Queenston, Napanee, and Hull.

CEMENT, LIME, etc.

Table with 4 columns: Item, Price in Toronto, Price in Montreal, and Price in Quebec. Includes Portland Cements, German, London, Newcastle, Dyckerhoff, North's Condor, English, Belgian, Canadian, Roman, Parian, Superfine, Hydraulic Cements, Thorold, Queenston, Napanee, and Hull.

Table with 4 columns: Item, Price in Toronto, Price in Montreal, and Price in Quebec. Includes Ontario, Keene's Coarse Whites, Fire Bricks, Lime, Plaster, Hair, and Cut nails.

Toronto. Montreal.

Table with 4 columns: Item, Price in Toronto, Price in Montreal, and Price in Quebec. Includes Lime, Plaster, Hair, and Cut nails.

HARDWARE.

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

Table with 4 columns: Item, Price in Toronto, Price in Montreal, and Price in Quebec. Includes Cut nails and Steel.

CUT NAILS, FENCE AND CUT SPIKES.

Table with 4 columns: Item, Price in Toronto, Price in Montreal, and Price in Quebec. Includes 40d hot cut, 30 to 12d hot cut, 8d, 9d, 10d, 11d, 12d, 13d, 14d, 15d, 16d, 17d, 18d, 19d, 20d.

Cut spikes, 10 cents per keg advance.

Steel Nails, 10c per keg extra.

Wire nails, 250 base 1 rice.

Iron Pipe:

Table with 4 columns: Item, Price in Toronto, Price in Montreal, and Price in Quebec. Includes Iron pipe, 1/2 inch, 3/4 inch, 1 inch, 1 1/4 inch, 1 1/2 inch, 2 inch.

Toronto, 65 per cent. discount.

Montreal, 70 per cent. discount.

Lead Pipe:

Table with 4 columns: Item, Price in Toronto, Price in Montreal, and Price in Quebec. Includes Lead pipe, Waste pipe.

Galvanized Iron:

Table with 4 columns: Item, Price in Toronto, Price in Montreal, and Price in Quebec. Includes Adam's-Mar's Best and Queen's Head, 16 to 24 gauge, 26 gauge, Gordon Crown, 16 to 24 gauge, 26 gauge, 28.

Note.—Cheaper grades about 1/2c. per lb. less.

Structural Iron:

Table with 4 columns: Item, Price in Toronto, Price in Montreal, and Price in Quebec. Includes Steel Beam, channels, angles, tees, plates, Sheared steel bridge plate.