

CANADIAN CONTRACT RECORD

A WEEKLY JOURNAL

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. 13.

SEPTEMBER 17, 1902

No. 31

THE CANADIAN CONTRACT RECORD, PUBLISHED EVERY WEDNESDAY

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of Toronto, Limited.

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Telephone Main 2246.

Advertising Rates on application.

Subscribers who may change their address should give prompt notice of same. In doing so, give both old and new address. Notify the publishers of any irregularity in delivery of paper.

Tenders for Church

Whole or separate tenders for a Stone Church at McGregor, Ont., will be received by the undersigned until SEPTEMBER 20TH, 1902.

Plans and specifications may be seen at the residence of the pastor, or at the office of Moore & Henry, Architects, London.

Lowest or any bid not necessarily accepted.

REV. C. A. PARENT,
McGregor, Ont.

CITY OF WINNIPEG

Tenders for Waterworks Supplies, Hardware, Etc.

Sealed tenders, addressed to the Chairman of the Fire, Water and Light Committee, will be received at the office of the undersigned up to 8:30 p.m. on

Monday, September 29th Inst.,

for the supply of the following materials:

- 1,415 Corporation Cocks.
- 1,825 Stop Cocks.
- 52 tons Lead Pipe.
- 2,668 lineal feet Cast-Iron Pipe.
- 26 6 inch Hydrants and Fittings for same.
- 500 1/2 inch Meters.
- 250 3/4 inch Meters.
- 50 1 inch Meters
- Hardware and Fittings as per list.

Specifications and forms of tender may be obtained at the office of the Water and Light Commissioner, Winnipeg, Canada.

Each tender must be accompanied by an accepted cheque or cash deposit for an amount equal to 5 per cent. of the bid submitted, which will be subject to forfeiture in case of failure to enter into a written contract with approved sureties if called upon to do so.

The city reserves the right to reject any or all tenders or to accept any bid which appears advantageous to the City of Winnipeg.

C. J. BROWN,
City Clerk.

City Clerk's Office, Winnipeg, Sept. 5, 1902.

TENDERS

Tenders will be received until the FIRST DAY OF OCTOBER, 1902, for the position of Engineer to operate and superintend the Pumping Machinery of the Big Marsh Drainage System in the Township of Pelce.

Tenderers must satisfy themselves of the nature of the work they have to perform. The lowest or any tender not necessarily accepted.

WILLIAM STEWART,
Township Clerk.

TO CONTRACTORS

Sealed tenders marked "Tender," will be received by me up to noon of THURSDAY, THE 25TH SEPTEMBER, 1902, for the erection and completion, by the first day of December next, of a New Fire-Proof Building north of Shire Hall, in the city of Belleville, for the County of Hastings; also separate tenders for heating said building and Shire Hall (except the Council Chamber), with hot water.

Plans and specifications for said heating to be supplied with each tender therefor; but plans and specifications for the new building may be seen at my office and at the office of Thomas Hanley, architect, Belleville.

The lowest or any tender, for either, not necessarily accepted.

WM. R. AYLSWORTH, County Clerk,
Belleville, Ont.

TENDERS WANTED

Sealed tenders marked "Tenders for Library Building," will be received by the City Clerk up to noon of MONDAY, SEPTEMBER 22ND, 1902, for the erection of a Carnegie Public Library Building in the City of St. Catharines, Ont.

Drawings and specifications may be seen at City Clerk's Office, St. Catharines, also at the office of S. R. Badgley, Architect, No. 1173 Euclid Ave., Cleveland, Ohio.

Contractors are requested to use the blank form of tender furnished by the Committee, which provides that bids may be on the whole or any department of the work.

The Committee reserves the right to reject any or all bids.

Approximate cost of building, \$30,000.

A. W. MARQUIS,
Chairman of Committee.

J. S. MCCLELLAND,
City Clerk,
St. Catharines, 3rd September, 1902.

TO BRIDGE CONTRACTORS

Sealed tenders, marked "Tenders for Bridges," will be received by the undersigned up till 9 a.m. on THURSDAY, THE 2ND DAY OF OCTOBER, 1902, for the erection and completion of two new

STEEL HIGHWAY BRIDGES

over Hardy Creek, in the township of Brooke, one on 21 sideroad, con. 10, having a span of 55 feet and roadway 14 ft. clear. And one on con. 10-11, at lot 25, having a span of 45 ft. and roadway 14 ft. clear. Each to be set on 12 ft. channeled steel post abutments, with steel plate backing. Plans for proposed structures to accompany each tender. Lowest or any tender not necessarily accepted.

L. LINDSAY,
Rokeby, P.O. Ont.
ALP. DARVILL,
Alvinston, P.O. Ont.
JOHN MCCALLUM,
Alvinston, P.O. Ont.
Commissioners in charge.



DEPARTMENT OF RAILWAYS AND CANALS, CANADA

LACHINE CANAL

NOTICE TO CONTRACTORS

Sealed tenders addressed to the undersigned, and endorsed "Tender for Rebuilding portions and extending Locks No. 1 and No. 2, at entrance to Lachine Canal, Montreal," will be received at this office until 1 o'clock on Thursday, the 2nd October, 1902.

Plans and specifications can be seen on and after the 15th of September, 1902, at the office of the Superintending Engineer of Quebec Canals, Royal Insurance Building, Montreal, where forms of tender can be obtained.

In the case of firms there must be attached to the tender the actual signatures of the full name, the nature of the occupation and residence of each member of the same, and further an accepted bank cheque for the sum of \$10,000 must accompany the tender. This accepted bank cheque must be endorsed over to the Minister of Railways and Canals, and will be forfeited if the party tendering decline entering into contract for the work at the rates and on the terms stated in the offer submitted.

The accepted cheque thus sent in will be returned to the respective parties whose tenders are not accepted.

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

By order,
L. K. JONES,
Secretary.

Department of Railways and Canals,
Ottawa, 9th September, 1902.

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

CONTRACTS OPEN.

SOUTH BUXTON, ONT. — B. G. Burk intends building a large warehouse.

DEAD CREEK, ONT. — The erection of a new Methodist church is proposed.

DESCHENES, QUE. — Conroy Bros. propose building a large saw mill.

THURSO, QUE. — The Ottawa Presbytery has decided to build a church here.

GALT, ONT. — The Seventh Day Adventists will probably build a church here.

MONKTON, ONT. — Louis Rock, of Logan, is preparing to rebuild his residence.

FORT WILLIAM, ONT. — The John King Co. have had plans prepared for brick block.

TROUT CREEK, ONT. — Trusler Bros. will build a new saw mill on Black Creek.

SHERBROOKE, QUE. — The Jenckes Machine Co. will enlarge their works in the near future.

PEMBROKE, ONT. — A by-law to raise \$8,000 for improvements has been passed in council.

LINDSAY, ONT. — It has been decided to invite tenders at once for erection of library.

BRANTFORD, ONT.—The plans for new library building will likely be completed this week.

SARNIA, ONT.—M. R. Burrows, architect, has taken tenders on brick hotel for Peter Heuser.

AMHERST, N. S.—The Oxford Woollen Co. are building a four storey fire-proof mill, 154x55 feet.

CHICOUTIMI, QUE.—The Banque Nationale have selected a site on which to build a branch bank here.

ST. MARY'S, ONT.—Mr. Brethour contemplates building an electric line between this town and Kirkton.

STRATFORD, ONT.—It is likely that a vitrified brick pavement will be constructed on Downie street.

SYDNEY, N. S.—The town will purchase the St. Andrew's manse property as a site for the Carnegie library.

OSHAWA, ONT.—Willis Chipman, C. E., will shortly present his report on a sewerage system for the town.

CARLETON PLACE, ONT.—It is probable that additional fire apparatus will be purchased by the town.

BETHEL, ONT.—The trustees of the Methodist church have secured a site on which to build a new edifice.

MIDLAND, ONT.—The by-law to purchase a site for the proposed government dock was carried last week.

WINCHESTER, ONT.—The question of installing a pipe organ in St. Paul's church is under consideration.

NORTH BAY, ONT.—Messrs. Warren and Gray, of Toronto, and other capitalists, have made a proposition to the council to build a pulp mill here.

CHATHAM, ONT.—The city council have requested the Lake Erie & Detroit River Railway Co. to carry out their agreement with the city by erecting car shops.

KENTVILLE, N. S.—It is understood that Mrs. Fitch, of Shubenacadie, is about to build a residence in this town.

DNUDURN, N.W.T.—G. E. Grode is prepared to receive offers for a loan of \$1,500 for ten years at 8 per cent. per annum.

MEGANTIC, QUE.—N. W. Thomas and H. H. Clark were in town recently looking for a site on which to build a saw-mill.

WINGHAM, ONT.—C. Lloyd, Son & Co. have asked the council for \$6,000 to enable them to extend their sash and door factory.

PORT HOPE, ONT.—The Ideal Mfg. Co., of Detroit, Mich., are negotiating for a site here on which to build a Canadian factory.

GLACE BAY, N. S.—N. F. McNeil, town clerk, is taking tenders up to Thursday of this week for erection of school house.

OWEN SOUND, ONT.—Four architects have submitted plans for the House of Refuge, and a selection will be made this month.

GRAND FORKS, B. C.—G. S. Waterlow, of the Snowshoe Gold and Copper Mines, states that a smelter of 1,000 tons capacity will be erected.

WIARTON, ONT.—The Colonial Cement Co. have had plans prepared for cement works to be established here. Their engineer is E. Y. Jackson, of Detroit.

ST. THOMAS, ONT.—A deputation from the Board of Education have requested the city council to take steps immediately to reconstruct Myrtle street school.

ARMSTRONG, B. C.—J. McDonald, reeve municipality of Spallumcheen, is

asking for tenders up to September 30th for construction of waterworks system in this town.

SLOCAN, B. C.—The Ontario-Slocan Lumber Co., of which J. B. Tudhope, of Orillia, Ont., is president, expect to commence the building of their new saw mill at an early date.

QUEBEC, QUE.—The Board of Trade passed a resolution last week urging the Minister of Public Works to let the contract at once for proposed harbor improvements.

MACGREGOR, MAN.—Bulk or separate tenders are invited by E. Downton, up to 20th inst., for erection of school building. Plans by H. S. Griffith, architect, Winnipeg.

SAULT STE. MARIE, ONT.—The Baptists of the west end are preparing to build a church.—Steps will probably be taken at an early date to build a hospital.

EDMONTON, N.W.T.—The North-West Government have completed the location of Drain No. 10, with which it is proposed to drain the country between Strathcona and Mill Creek.

ST. LOUIS DU MILE END, QUE.—John W. Peck & Co. have made a proposition to the council to build a four-storey brick factory, 100x200 feet, in consideration of a small bonus.

HAMILTON, ONT.—George Mills, architect, is taking tenders on addition to factory of Hamilton Cotton Co., and has been instructed to prepare plans for a \$10,000 residence to be built in the east end.

FREDERICTON, N. B.—It is likely that the provincial government will take steps shortly to erect a permanent structure as the Oromocto bridge.—A site has been purchased on which it is proposed to build a new Methodist church.

VICTORIA, B. C.—Hooper & Watkins have prepared plans for addition to Dominion Hotel.—F. M. Rattenbury, architect for the C. P. R., has returned from a trip along the line of railway examining the hotels of the company which it is proposed to enlarge and remodel.

GUELPH, ONT.—L. C. Wideman, architect, has taken tenders on alterations and additions to brick residence.—The by-law to issue debentures for \$42,500 to aid in the establishment of any industry for the manufacture of iron pipes will be submitted to the ratepayers on the 29th inst.

TORONTO JUNCTION, ONT.—The lot at corner of Keele and Dundas streets has been transferred to the Government and will be used as a site for new post office.—J. C. Williard is building a three-storey block on Dundas street.—R. E. Speakman, C.E., of Toronto, has submitted to the council a scheme for sewage disposal system.

ST. JOHN, N. B.—G. E. Fairweather is taking tenders up to 18th inst. for erection of brick warehouse for T. McAvity & Sons.—J. Fraser Gregory is still negotiating with the city council regarding the development of the water power at the falls.—The trustees of the Methodist church, Silver Falls, propose to build a parsonage.—The New Brunswick Petroleum Co. are having plans prepared by L. J. Hirt, of Boston, for a large oil refinery to be built in Westmoreland county.

COLLINGWOOD, ONT.—The Lieutenant-Governor-in-Council will be requested to approve of an issue of \$10,000 of debentures for extension and improvements to the waterworks and electric light systems.—Architect Palin has prepared plans for new residence for Dr. McKay.—John Wilson, architect, is preparing plans for a two-storey brick

and stone residence to be built on Hume street by William Paterson.—Hamilton Bros. propose to extend their telephone system from Singhanpton to Collingwood.—H. Dixon purposes building a foundry.

VANCOUVER, B. C.—A by-law to raise \$4,250 for laying cement sidewalks has been passed by the city council.—It is announced that the C. P. R. intends constructing five large wharves here to be devoted exclusively to Oriental trade, and to build on each of these wharves two warehouses, 450 feet in length and 50 feet wide.—A local firm of architects is negotiating for the four lots next to the Bank of Montreal. One report has it that a hotel is to be erected thereon, while another is to the effect that a brick block is to be put up.

OTTAWA, ONT.—The Galt-Schneider Oil Co., of Montreal, purpose erecting a warehouse and two or three steel tanks in this city.—It is understood that J. R. Booth purposes building on the site of his old saw mill.—L. K. Jones, secretary Department Railways and Canals, invites tenders up to 17th inst. for substructure of new bridge across the Welland canal in village of Humberstone, and until 19th inst. for substructure of new bridge at Junction Crossing of Welland canal. Plans at the office of the superintending engineer of the canal.—The following building permits have been granted: R. J. Cowie, two solid brick dwellings, Gilmour street, cost \$5,400; Estate W. W. Brown, brick addition to three stores, Spark street, cost \$1,750; James Bearman, two brick dwellings, Second avenue, cost \$3,000; George Tomlinson, brick dwelling and shop, Gladstone avenue, cost \$2,600.

WINNIPEG, MAN.—Tenders for construction of sewer on Nassau street, from Gertrude to McMillan avenue, will be received by the city clerk up to 23rd inst.—C. J. Brown, city clerk, desires tenders by 23rd inst. for supply of the following sewer pipe: 5,000 feet 12-inch; 4,000 feet 6-inch; 1,000 feet 4-inch; 40 18x6 junctions; 40 15x6 junctions; 100 12x6 junctions.—Attention is directed to the advertisement in this issue inviting tenders for waterworks supplies. The date for the reception of tenders is Monday, September 29th, instead of the date given in last issue.—The Moore Cement Mfg. Co. has been organized here. John Haffner and Dr. O. J. Grain, of Selkirk, are interested.—Henry Sandison, Chairman Public Park Board, has taken tenders on dwelling and office building at Brookside cemetery.—The council propose to construct the following works: Asphalt pavement on lane between James and Rupert avenues, cost \$1,374; on George avenue, cost \$8,720; macadam pavement on Mead street, cost \$1,075; on Langside street, cost \$4,150; on Granville street, cost \$2,780; on lan south of Broadway, cost \$2,437; also number of granolithic sidewalks.

MONTREAL, QUE.—Tenders are invited by the Department of Railway

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MUNICIPAL
DEBENTURE

and Canals at Ottawa up to Thursday, October 2nd, for rebuilding and extending locks No. 1 and 2 at entrance of Lachine canal. Cheque for \$15,000 to accompany each tender.—The new home for the Railway Y. M. C. A. and Grand Trunk Literary and Scientific Institute will be located on Sebastopol street and will cost about \$40,000.—H. C. Stone, architect, is calling for tenders for elevators for warehouse for Mr. Beadmore at 57 St. Peter street. Same architect is calling for tenders for a porch for Mr. G. W. Ross, University street.—Building permits have been granted as follows: G. H. Stearns, one-storey house, 109 St. Maurice street, cost \$1,000; Mr. O'Brien, alterations to three-storey house, St. Lawrence st., cost \$1,000; B. Ledoux & Co., seven-storey warehouse, Mountain st., cost \$6,000; C. Gratton, two three-storey houses, Montcalm st., cost \$3,000; Olivier Alary, two-storey house, 381 Davidson st., cost \$1,000; B. Nai, Jacob Congregation, two-storey synagogue, Cadieux st., cost \$12,000 (E. Mann, architect); Fabrique of Our Lady of Good Council, one-storey church and office building, two stables and shed, Craig st., near Panet, cost \$30,000 (W. E. Doran, architect); N. Leclair, two two-storey houses, Gilford st., cost \$2,400; E. Bernier, two-storey house, St. Catherine st., cost \$2,600.

TORONTO, ONT. — The County Commissioners have decided to build a new steel bridge across the Don river at Thornhill. — Robert Hazelton, Todmorden, wants tenders on plastering, lathing, galvanized iron work and brick chimneys for two houses.—J. Francis Brown, architect, Board of Trade Building, is taking tenders on pair of houses on Howard street.—Tenders are wanted for brick and carpenter work of pair of houses on Walker avenue. Plans at 16 Temperance street.—L. H. Bowerman wants tenders on completion of small brick house.—Tenders are invited by the Board of Control up to noon of Friday of this week for the following works: Asphalt pavement—Spadina avenue, e. s., from 7½ ft. n. of Baldwin street to College; Bedford road, from Bernard avenue to Davenport road; Phoebe street, from Spadina avenue to Soho street. Brick pavement—Givens street, from College to Bloor street; Avenue road, from Davenport road to city limit. Cedar blocks—Bloor street, from Bathurst to Dufferin street; St. Clares, from College to Bloor; Dean street, from Wilton avenue to 204 feet north; Middleton, from Brock avenue to Sheridan avenue; College street, from Bathurst to Lansdowne avenue. Macadam—Grange avenue, from Huron to Spadina avenue; Noble street, from Brock avenue to 298 feet east; Czar street, from North street to Queen's Park drive. Also for the construction of a large number of concrete sidewalks in different parts of the city.—The city engineer has recommended the construction of the

following works: Sewers—Barton avenue, cost \$620; Wallace avenue, \$2,220; Macdonald avenue, \$250. Asphalt pavements—Elm avenue, Sherbourne to Huntley \$4,435; Bathurst street, Queen to College, \$33,555. Macadam roadways—St. Vincent street, Grenville to Grosvenor, cost \$460; Ontario street, Wilton avenue to Carlton, \$3,470.—Stinson & Holloway have sold the large residence at corner of Church and Shuter streets until recently occupied by the late Dr. Sweetman. It is understood to be the intention of the purchaser to convert the building into a first-class apartment house.—Building permits have been granted as follows: St. Stephen's church, brick addition, cost \$1,500; Thos. McMillan, pair dwellings, 212 and 214 Close avenue, cost \$6,000; Alex. Burgess, residence, 37 Maple avenue, cost \$6,000; M.S. Kellow, pair dwellings, Albany avenue, cost \$4,000; C. W. Thompson, alterations to 102 Avenue Road, cost \$2,000; Thos. Corbett, dwelling, S. Clar ns avenue, near Bloor, cost \$1,900; Reliance Loan Company, additional storey to office building, 84 King street east, cost \$4,000; S. J. Graydon, two-storey brick and stone

house, 131 Madison avenue, cost \$6,000; C. R. S. Dinnick, two-storey-and-a-half brick and stone dwelling, 76 St. George street, cost \$5,500; W. Elliott, two-storey detached brick and stone dwelling, 38 Pendrith street, cost \$1,100; W. Pinkerton, two-storey brick house, Beatrice street, near College, cost \$1,800; P. J. Crotty, two-storey brick-front dwelling, 33 D'Arcy street, cost \$1,000; Thomas McIlwain, pair houses, 212 and 214 Close-avenue, cost \$6,000; R. F. Scott, house, 5 Rosedale-road, cost \$4,500; Lieut. Col. MacDonald, alterations to dwelling, 485 Huron-street, cost \$2000.

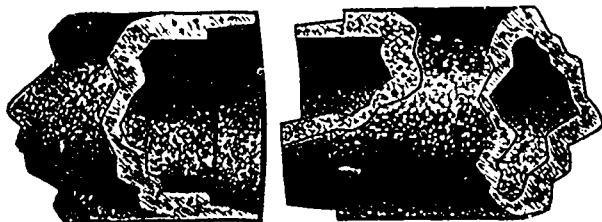
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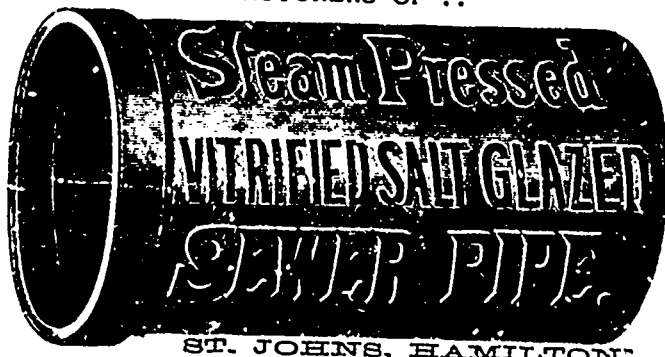
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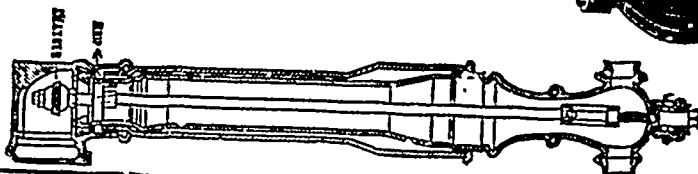
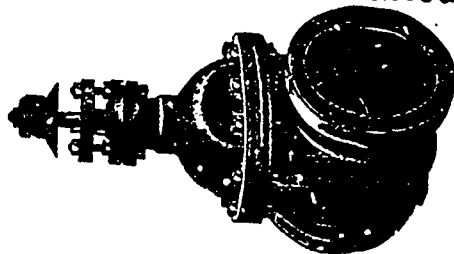
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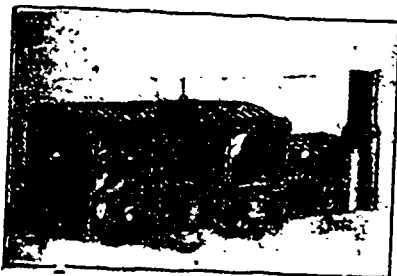
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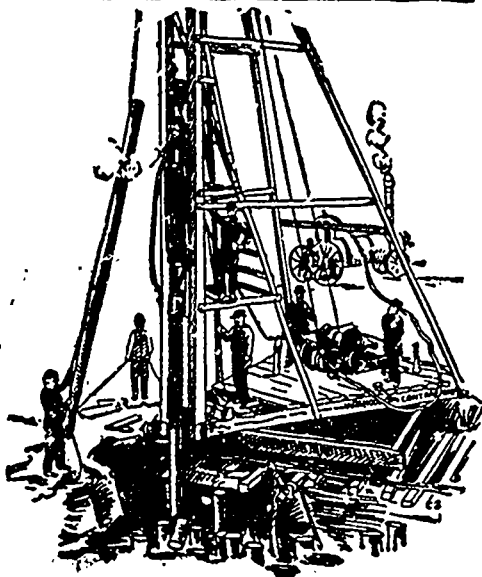
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Correspondence invited.

GEO. S. KILBOURN, Secretary-Treasurer.

WORKS: Shallow Lake, Ont. - HEAD OFFICE: Owen Sound, Ont.

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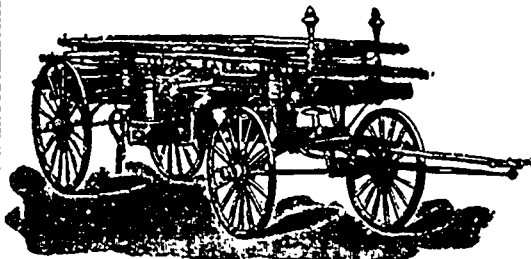
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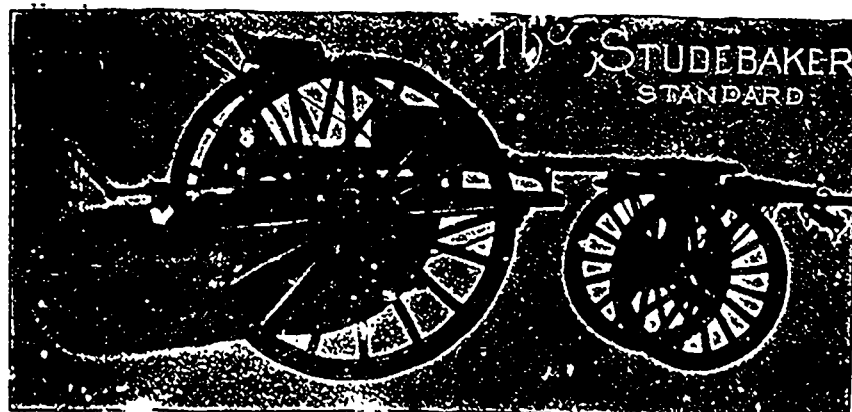
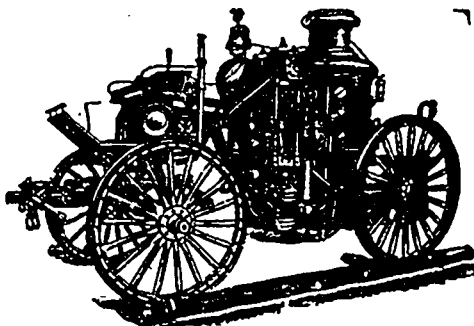
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FIRES.

Sash and door factory of W. W. Harper at Charlottetown, P.E.I., damaged to extent of \$3,000.—Stable of the Montreal Light, Heat & Power Co., Montreal, totally destroyed; loss \$15,000.—Ware-rooms of John E. Brown on McNab street north, Hamilton, badly damaged.—Residence of John Keddy, near Bridgewater, N.S.—Greenhouses of Hall & Robinson at Outremont, Que., damaged to extent of \$2,500.—Brass manufactory of Chadwick Bros., Hamilton, partially destroyed; loss \$8,000.

CONTRACTS AWARDED.

INGERSOLL, ONT.—Residence for H. J. Hollinrake: Crooker & Sons, contractors.

NEW WESTMINSTER, B.C.—Carnegie library building: H. Hoy, contractor.

COLDWATER, ONT.—Building Methodist parsonage: Mr. Switzer, of Orillia, contractor.

MONCTON, N.B.—New hospital building: Architect, J. T. Brodie, St. John; contractor, B. LeBlanc.

QUYON, QUE.—New school: Carpenter work, Mr. Smith, Ottawa; masonry and brickwork, Mr. Cauley, Ottawa.

ST. JOHN, N.B.—Intercolonial railway roundhouse: Rhodes, Curry & Co., of Amherst, N.S., contractors; price about \$60,000.

BURLINGTON, ONT.—The Royal Artificial Stone Paving Co., of Guelph, have secured the contract for cement walks at 11½ cents per square foot.

MONTREAL, QUE.—H. C. Stone, architect, has awarded the contract for painting and glazing of warehouse for Mr. Beardmore at 57 St. Peter street, to Mr. Arcand.

STRATFORD, ONT.—Buildings for Kemp Mfg. Co.: Plumbing, Myers & Co.; painting, A. O. Neff; carpenter work not yet let. Balance of work will be done by day labor.

HAMILTON, ONT.—Additional buildings for the Deering Harvester Co.: Masonry, Geo. Webb; carpenter work, William Halliday; roofing, James Findlay; painting, W. H. Stamp.

CORNWALL, ONT.—Contract for factory for Cornwall Furniture Co. has been let to A. Adams, of Ottawa, for \$11,753. This includes everything except roof covering and flooring. Main building will be 160x50 feet, three-stories high, of brick.—Public library building: L. A. Ross, successful tenderer.

ANNAPOLIS, N.S.—The contract for dam, head gates, flume and power house for extension of electric light plant has been let to Robert S. Low, of Sydney, at \$3,300, and the water wheel installation to the Jenckes Machine Company at \$1,980. The pole line construction will be done by the town.

FREDERICTON, N.B.—The Commissioner of Public Works awarded the following contracts: Mill Brook bridge, Kings county, to Joseph Donnelly; Fowlerton bridge, Kings county, to Geo. A. Appleby; Baker Brook bridge, Madawaska county, to Joseph Guy; Wilson bridge, of Argyle, Carleton county, to Wm. R. Fawcett; McLaggan bridge, York county, to Kenneth McLaggan.

WINNIPEG, MAN.—The Canada Lands and Investment Company have purchased a second issue of school debentures of the Frank school district.—Supply of nine fire alarm boxes for city: Bell Telephone Company, successful tenderers, \$618.—Residence on St. Johns ave. for E. L. Drewry, cost about \$6,000: Masonry, brickwork and plastering, M. Watson; carpenter's and painter's work,

Thos. Ritchie; plumbing, Hammond & Rodway; hot water heating, John Plaxton.—Additions to Ogoivie Milling Company's offices: Mr. Barnett, contractor, cost \$4,644.—Walter Chesterton, architect, has charge of extensive improvements of the residence in Fort Rouge erected by the late A. W. Ross, and recently purchased by Hugh Sutherland.

STREAKS AND PATCHES IN FINISHED CONCRETE.

Engineers and contractors engaged in concrete construction work are seeking a remedy for the variegated appearance so frequently seen in finished concrete, such as light and dark patches and streaks; while this will disappear in time in weathering, it can be in a great measure remedied in the first instance by proper treatment. First, by preserving a uniform mixture of materials. Machine mixed concrete will present a more uniform finish than hand mixed. Brush finish will produce a much more even and uniform color than work finished with a trowel. The trowel has a tendency to draw the neat cement to the surface of the work in hand and thus produce a variegated finish; too much troweling likewise produces solid hair lines on the face of the work.

In the erection of concrete walls and masonry where one layer is filled in and tamped above the other, there is always more or less drip which flows over the next lower layer. This drip should be brushed and spread over the face of the wall to the right and left as soon as possible after the drip appears, otherwise it will show if permitted to dry and harden with the masonry.

A uniform finish can be given to a discolored wall by the use of Portland cement and water mixed to form a paint, to be applied with a stiff brush. In mixing the dry Portland cement it is simply diluted with water and stirred, to break up the lumps and poured from one paint pot to another repeatedly and kept constantly stirred with a paddle while it is being put on, otherwise the Portland cement will settle to the bottom. The work should be protected from the sun and wind for a short time and slightly moistened after it has set, to prevent quick drying out.

In flat work, such as sidewalk finish, with a suitable fine grained material, an absolutely uniform color and finish can be produced by the use of a brush drawn

straight across the work in executing the finish. The roughest kind of concrete masonry, which is sufficiently rich to show a slight face of cement after the forms have been removed, can be given a brush finish while the cement is yet partially green that will add greatly to the appearance of the work.

Guay, Prevost & Company, Farnham, Que., have registered partnership as contractors.

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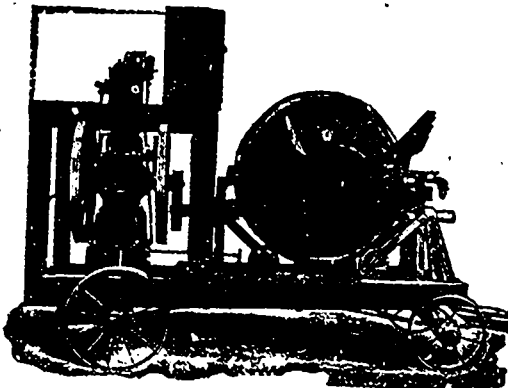
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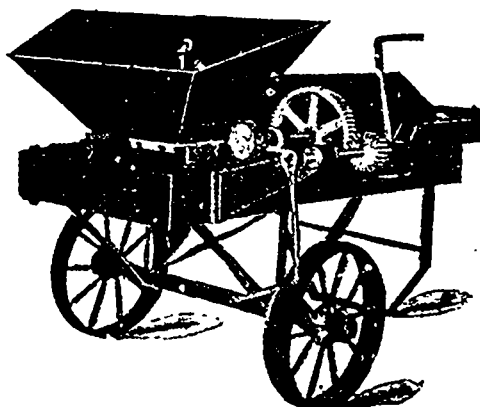
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The machinery of road-making, like the machinery of farming, has developed very materially of recent years. A full plant for complete, economical and serviceable work is expensive. Cities can afford such a plant, nearly every city in the Province and a number of towns having supplied themselves with a full outfit of road-making machinery.

Townships, however, cannot as a rule do this. A road grader is all that the great majority will buy, and some have not even done this. Some few have bought rock crushers. The result is that only the very simplest of road-making appliances are available for use on the country road. The main roads, many of them heavily travelled, receiving all the traffic from a large territory, receive almost the same treatment in construction and maintenance as do the back concessions.

There is one, perhaps there may be said to be two, exceptions, and these point to a feasible plan for obtaining proper machinery for the heavily travelled roads. The County of Hastings, on its system of county roads, makes use of graders, a traction engine, a rock crusher, and a steam roller. In the County of Victoria, while it has not a system of county roads, the council pur-

chased a roller and rock crusher, to be used by the different township councils, a plan which, while an improvement, does not achieve the full success it deserves. The only system as yet suggested whereby these machines can be made available on our roads, is under a complete county system, where the roads subjected to heavy travel will receive the treatment they so urgently demand, both on the ground of economy and more efficient service.

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The perfect of the Seine has submitted to the Paris Municipal Council a new and comprehensive scheme with regard to disposal of household refuse—a question which has engaged the attention of the city fathers for many years. Since M. Poubelle, inventor of a dustbin bearing his name, reorganized the collection of refuse from the houses of the capital when he was at the prefecture, there has been little to complain of respecting that part of the matter. The great question in Paris now

is what is to be done with the refuse when collected, especially when it requires an outlay of about 3,500,000 francs per annum.

According to the new plan, Paris would be divided into four sections of five arrondissements each, and in each section works for the disposal of the refuse would be erected. The method to be employed is that already adopted by several cities with considerable success, viz., incineration.

However, the refuse of only one arrondissement would be burned, that of the other four being pulverized and transformed into artificial manure for the important market-gardening districts around Paris. There would also be a special station near the Halles, for the disposal of the large quantity of refuse gathered in the markets daily. The cost of this scheme would be 10,000,000 francs, and the annual outlay for its maintenance 2,900,000 francs, which would mean a saving of about 500,000 francs, as compared with the present system.

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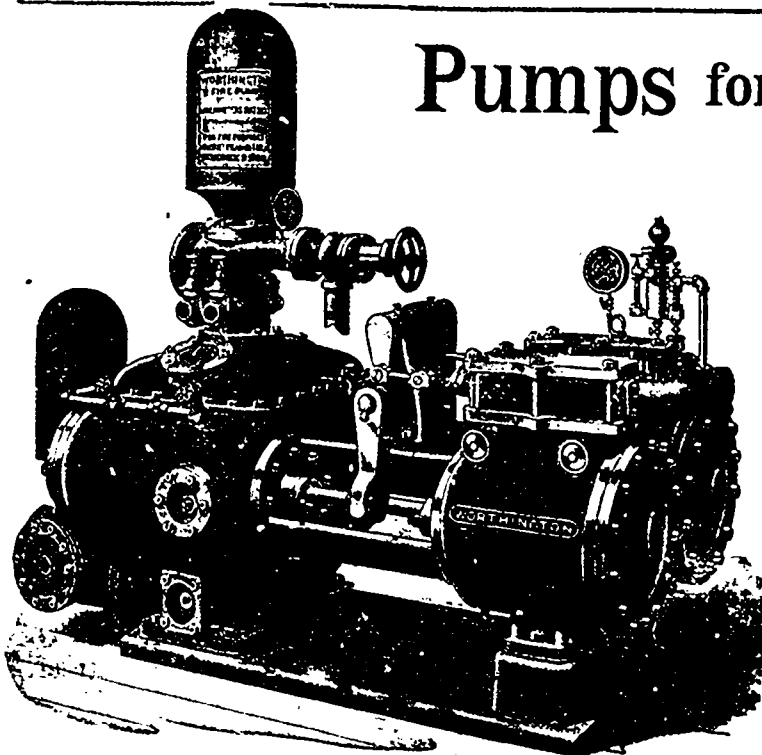
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