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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.

JANUARY 17, 1900

No. 51.

## THE CANADIAN CONTRACT RECORD, PUBLISHED EVERY WEDNESDAY

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

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WANTED.—Architectural Draughtsman for general work, to go out of city. State experience and salary. Address: "K," CONTRACT RECORD.

## TENDERS

Will be received at this office until THURSDAY, JANUARY 25TH, for the several works required in the erection of a

**LARGE FACTORY BUILDING**  
in Parkdale (with construction). The lowest or any tender not necessarily accepted.

S. HAMILTON TOWNSEND, Architect,  
15 Gerard Street East Toronto.

## Tenders for a Church

Sealed whole or separate tenders, addressed to the Architects, and marked "Tender" will be received until WEDNESDAY, JANUARY 25TH, for all the works required in the erection of a

**New Church at Dublin, Ont.**

Plans and specifications may be seen at the office of Matthew Williams, Postmaster, Dublin, Ont., or at the office of the Architects.

MOORE & HENRY, Architects,  
London, Ontario.

REV. FATHER FOGARTY, Pastor

## TENDERS FOR BRIDGE

Sealed tenders, addressed to George Stewart, Esq., County Clerk, Peterborough, will be received up to TUESDAY, JANUARY 23RD, 1900, at four o'clock p.m., for

### Floating Bridge and Approaches

over Chemong Lake. Bulk and separate tenders received.

Plans, etc., may be seen at the office of J. E. Belcher, Esq., County Engineer, Peterborough. An accepted cheque for five per cent. must accompany each tender. The lowest or any tender not necessarily accepted.

(Sgd.) E. HAWTHORNE,  
Warden.

## WANTED

At once, a thoroughly capable and experienced Draughtsman for general office work. Apply, stating all particulars, to

Messrs. TAYLOR & GORDON, Architects,  
Montreal, Que.

## WANTED

The publishers will pay 75 cents for a complete copy of the CANADIAN ARCHITECT AND BUILDER for November 1899. Address, THE C. H. MORTIMER PUBLISHING CO. OF TORONTO, Limited.

## Position Wanted

ENGLISHMAN (33) SEEKS ENGAGEMENT in Canada as Clerk of Works or Builder's Managing Foreman; 17 years experience on first-class works. Thorough knowledge building trades, also well up in electrical and mechanical engineering. Good draughtsman. Highest references and testimonials. Address, JOHN HOLDEN, Ashbourne Road, Rochester, Staffs., England.

## TENDERS WANTED

Sealed tenders, marked "Tender for Public School" will be received by the Secretary Public School Board, Welland, up to WEDNESDAY, JANUARY 31ST.

Separate bids for Heating and Ventilating and Plumbing, all other trades to be included in one tender. Plans and specifications may be seen at the office of A. O. Beatty, Chairman Building Committee, Welland, and at the Architect's office in Toronto. No tender necessarily accepted.

JOHN McCAW,  
Secretary Public School Board,  
Welland, Ont.

JAMES A. ELLIS, Architect,  
9 1/2 Adelaide Street East, Toronto, Ont.



Sealed tenders addressed to the undersigned, and endorsed "Tender for Extension of West Pier, Eastern Entrance Toronto Harbor," will be received at this office until TUESDAY, THE 23RD JANUARY INSTANT, for extending and repairing the West Pier at the Eastern Entrance to Toronto Harbor, according to a plan and specification to be seen at the office of E. B. Temple, Esq., Resident Engineer, Confederation Life Building, Toronto, and at the Department of Public Works, Ottawa.

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

An accepted bank cheque, payable to the order of the Minister of Public Works for ten thousand dollars (\$10,000), must accompany each tender. The cheque will be forfeited if the party decline the contract or fail to complete the work contracted for, and will be returned in case of non-acceptance of tender.

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

A. GOBEIL, Deputy.

Department of Public Works,  
Ottawa, 3rd January, 1900.

No newspapers inserting this advertisement without authority from the Department will not be paid for it.

The Burrill-Johnson Iron Co., of Yarmouth, N.S., has sold out to H. B. Cann.

## CONTRACTS OPEN.

MARGARET, MAN.—A new Presbyterian church is to be built next spring.

BOTANY, ONT.—A site has been selected for the proposed Presbyterian church.

BALDUR, MAN.—The Orange Society intend building a hall, to cost about \$2,000.

HAVELOCK, ONT.—The ratepayers have voted in favor of a town hall and lock-up.

OLD FORT, ONT.—J. McDermott is rebuilding his saw mill which was burned recently.

SEBRINGVILLE, ONT.—Thos. Moore purposes building a brick residence next summer.

MARKDALE, ONT.—The corporation will spend about \$6,000 on local improvements this year.

BOCABEC, N.B.—R.B. Hansen purposes building a saw mill at the mouth of the Magaguadavic river.

BENNINGTON, ONT.—The bridge by-law was defeated by the ratepayers of West Zorra township.

FOREST, ONT.—The Sutherland, Innes Co. of Chatham, will build a stove and heading mill at this place.

BRANTFORD, ONT.—The Schultz Bros. Co. contemplate making an extensive addition to their factory next spring.

CHARLOTTETOWN, P. E. I.—Patrick Doherty purposes building a new hotel in the spring, to be four storeys high.

DOUGLAS, ONT.—Thos. Martin and Mrs. Power each purpose erecting new residences during the coming season.

BARRIE, ONT.—The Barrie Tanning Co. purpose erecting a large tannery here, to be equipped with the latest machinery.

GUELPH, ONT.—The Mayor, in his inaugural address, submitted a scheme for the extension of the waterworks system.

ALMONTE, ONT.—Ramsay township council have appointed a commission to arrange for the erection of a bridge at Glen Isle.

BEAUMARIS, ONT.—It is the intention of W. Miller, of Alleghany, Pa., whose summer residence was burned recently, to rebuild.

CHATHAM, ONT.—Thibodeau & Jacques are about to commence the erection of a large two-storey brick addition to their store.

LORING, ONT.—The school trustees have been instructed to raise money by debentures for the erection of a new school building.

LEADBURY, ONT.—The clerk of McKillop township has been instructed to call for tenders for stone or concrete abutments for two bridges.

BOWMANVILLE, ONT.—A company, with headquarters at Ottawa, is negotiating with the town council for a bonus to establish a beet sugar refinery here.

SCHOMBERG, ONT.—S. Lemon, reeve of King, has been informed that the con-

struction of the Schomberg Aurora Railway will be proceeded with at an early date.

**DALHOUSIE, N.B.**—It is said that several citizens intend erecting new buildings on property recently purchased from the government.

**FREDERICTON, N.B.**—Work on the Stanley and Cross Creek Railway will be begun early in the spring. Contracts have already been given for sleepers.

**DIGBY, N.S.**—A scheme is being mooted to run a telephone cable across the Bay of Fundy, connecting at Point Prim with the wires of the Valley Telephone Company.

**PEACHLAND, B.C.**—A new hotel will be built by the Townsite Company, to cost \$7,000. J. M. Robinson, manager; W. H. Shillinglaw, of Brandon, Man., architect.

**QU'APPELLE STATION, N.W.T.**—J. C. Starr, secretary-treasurer of the municipality of South Qu'Appelle, is prepared to receive offers for the purchase of debentures.

**LITTLE CURRENT, ONT.**—It is understood that the improvements to be made to the Red Mill by McArthur Bros., of Cheboygan, will include two large steam boilers.

**PICTOU, N.S.**—A company is being formed to start an iron foundry here. If the present works cannot be procured at a reasonable price, a new building will be erected.

**SHAWENEGAN, QUE.**—It is rumored that several prominent business men of Montreal and Three Rivers are considering a proposal to establish a large cotton mill here.

**FORT WILLIAM, ONT.**—The Ogilvie Milling Co. are about to commence the superstructure of their proposed flour mill and elevator, a contract for lumber having just been given.

**VICTORIA HARBOR, ONT.**—W.S. Newton & Son have under consideration the erection of a saw mill at this place, with a capacity of 75,000 feet per day, fitted with modern machinery.

**KINGSVILLE, ONT.**—A resident of Jarvis is understood to be considering the erection of a sash and door factory here.—The foundation for the addition to the electric light plant is under way.

**ARNPRIOR, ONT.**—The Arnprior Electric Light Co. are about to remodel and make additions to their plant, and have engaged Roderick J. Parke, E.E., of Toronto, as consulting engineer.

**CANTLEY, QUE.**—L. A. Vallee, Quebec government engineer, was here last week in connection with the construction of the Alonzo Wright bridge. It is probable that the bridge will be built of iron.

**BILLINGS BRIDGE, ONT.**—Gloucester township council have passed a by-law providing for the issue of debentures to the amount of \$5,589 75 for the purposes of the Findley creek municipal drainage work.

**DESCHENES, QUE.**—R. & W. Conroy have contracted to supply E. B. Eddy, of Hull, with power for his mills for ten years. They will therefore erect a large power house and other buildings at this place.

**WYEBRIDGE, ONT.**—Tenders are invited by Chas Wright, of Penetanguishene, up to 22nd inst. for construction of bridge across the Wye river at this place. Particulars from John McMullen, architect.

**SOREL, QUE.**—The St. Lawrence Terminal & Steamship Co will apply for a Dominion charter to build elevators, wharves, docks, etc., at this place. Greenshields, Greenshields, Laflamme & Dickson, of Montreal, are solicitors for applicants.

**NELSON, B.C.**—A local syndicate has been formed to erect an hotel at the corner of Baker and Railway streets.—J. Y. Griffin & Co. have broken ground for

their new warehouse, which will be 100 x 40 feet.

**ST. BONIFACE, MAN.**—An architect has reported that the St. Boniface cathedral cannot be enlarged satisfactorily, and it is probable that a new building will be erected in the near future to meet the requirements of the congregation.

**CAMPBELLTON, N.B.**—Wm. Pugsley will make application to parliament for the incorporation of the Restigouche and Western Railway Co., to construct a railway bridge across the St. John river at a point between Grand Falls and Edmeston.

**OSHAWA, ONT.**—The by-law to grant a loan of \$50,000 to the McLaughlin Carriage Co. was carried by the ratepayers on Saturday last. As a result the new works will be proceeded with at once, and will have upwards of 150,000 square feet of floor space.

**LENNOXVILLE, QUE.**—Subscriptions are being taken towards a memorial fund to commemorate the death of Henry E. Richmond, of Bishop's College. It has been decided that the memorial shall take the form of a library building in connection with the college.

**MIDLAND, ONT.**—The council has granted the School Board \$4,000 for increased accommodation, the money to be raised by the issue of debentures. Tenders will be invited immediately for the erection of a building, from plans now in possession of the Board.

**LEAMINGTON, ONT.**—The Canadian Ladder Manufacturing Co. has been formed here, capital \$10,000, to manufacture ladders. The erection of a building 30 x 150 feet will be commenced at once. Among the promoters are Thomas Fuller, W. T. Easton and Geo. Maxon.

**TAMWORTH, ONT.**—James A. Lacey, secretary of the School Board, invites tenders up to Friday, February 2nd, for erection of school house in school section No. 7, Sheffield, to be 24 x 30 feet, stone foundation, galvanized iron roof, ballion frame; seats to be included in the tender.

**PARKER'S COVE, N.S.**—The Department of Public Works at Ottawa invite tenders up to Tuesday, 30th inst., for the extension of breakwater at this place, cheque for \$600 to accompany tender. Plans at office of C. E. W. Dodwell, Halifax, at Department of Public Works, Ottawa, and at post-office here.

**STRATFORD, ONT.**—The Mayor, in his inaugural address, referred to the disposition of the ratepayers to favor a bell and clock for the new city hall. The water works and electric light contracts expire this year, and at an early date the council will consider the question of renewing the contract or constructing municipal plants.

**ST. CATHARINES, ONT.**—The clerk of Grantham township council has been instructed to obtain prices for bridge material for the ensuing year.—The council will probably let the contract at an early date for the construction of concrete sidewalks.—The Mayor points out the need of enlarging the city hall and of appointing a city engineer.

**PORTAGE DU FORT, QUE.**—The new bridge to be built at this place, for which tenders will be received up to the 23rd inst., will comprise two abutments with wings and two piers of cut stone, a truss iron span of 300 feet, an iron girder span of 50 feet between the island abutment and the first pier, and a similar span of 30 feet clearance on the Ontario side of the river.

**KINGSTON, ONT.**—The Imperial Laundry Co. will install about \$30,000 of new machinery in their new building now being built.—The Department of Justice purpose installing an electric lighting and power system for the penitentiary in this city. R. J. Parke, E.E., of Toronto, has been engaged as consulting engineer.—

H. P. Smith, architect, is preparing plans for a vestry for the church of the Holy Name, Cushendall. Same architect is preparing plans for a warehouse, cooper shop and stables for the Frontenac Milling Co.

**WELLAND, ONT.**—The question of street lighting was discussed at last council meeting. Some of the councillors advocated the purchase of the present plant and its operation in connection with the waterworks plant.—Tenders close on 31st inst. for the erection of public school. See announcement in another column.—The corporation is offering for sale \$40,000 of debentures.

**LONDON, ONT.**—The Proof Line Road Co. are considering the advisability of repairing or rebuilding Brough's bridge over the river Thames.—The hospital building committee are considering alterations to the old hospital building.—Building permits have been granted as below: A. Irwin, two-storey brick veneer residence on Bruce street, South London; W. M. Geary, three frame dwellings, brick foundations, on Edward street.

**HAMILTON, ONT.**—The Crow Lake Railway & Development Co. has applied for incorporation, to construct a railway from White Fish Bay, Lake of the Woods district, to a point on Crow Lake. Mayor Teetzel and John H. Tilden, of this city, are interested.—Notice has been given by Gibson & Osborne, solicitors, of application for incorporation of the Nickel Steel Co. of Canada, referred to in former issue.

**BRANDON, MAN.**—The Presbyterian congregation have under consideration the construction of a new church building. Designs have been submitted by C. H. Wheeler, of Winnipeg, W. H. Shillinglaw, of Brandon, and Gregg & Gregg, of Toronto.—Plans are being prepared by W. H. Shillinglaw, architect and civil engineer, for a double terrace to cost \$3,500, and two residences to cost \$5,000 and \$5,000, all with modern improvements.

**SMITH'S FALLS, ONT.**—The work of grading the C.P.R. between Havelock and this place will commence in the early spring.—It is probable that the town council will grant funds to provide additional school accommodation.—Alph. Patterson has purchased the old Beckett sash and door factory, together with a twenty-year lease of the water power.—A by-law has been passed in council authorizing the raising of money by the issue of debentures.

**MONTREAL, QUE.**—The accommodation in the city hall has recently been found inadequate, and the question of building an addition or an entirely new building may be considered at an early council meeting.—R. F. Prefontaine, Q.C., and associates, will apply for the incorporation of the Labrador Electric Light & Power Co., to acquire and develop a water power on the Murray Bay river and to operate electric railways in the districts of Charlevoix, Chicoutimi and Saguenay.

**WINNIPEG, MAN.**—C. J. Brown, city clerk, invites tenders up to Wednesday, 24th inst., for the supply of a quantity of sewer pipe, and until Wednesday, February 8th, for the supply of 1,000 cords of cedar paving wood.—Geo. Browne, architect, has submitted to the building committee revised plans of the proposed Y. M.C.A. building.—The Minister of Public Works states that contracts for a portion of the St. Andrews Rapids improvements are likely to be awarded within a few weeks.

**LINDSAY, ONT.**—In his inaugural address, the Mayor-elect referred to the necessity of continuing the construction of sewers, pavements and permanent roadways, and the Board of Works has been instructed to consider the advisability of purchasing at once the necessary

material for these works.—The chief of the fire brigade has submitted a report to council recommending the erection of a new central fire hall and the purchase of a new light hose reel, together with some smaller equipment.—It is the intention of John Carew to erect an addition to his saw mill.

ST. JOHN, N.B.—The Acadia Coal & Coke Co. will apply at the next session of the provincial legislature for an act authorizing the directors to issue debentures for \$100,000 for the purpose of equipping the mines of the company with machinery and plant. W. H. Trueman, of this city, is solicitor for the applicants.—Peters & Son have purchased a site on which to rebuild their tannery.—Geo. Robertson, M.P.P., will shortly leave for England in connection with the proposed dry dock scheme.—D. Pottinger, general manager of the Intercolonial Railway, wants tenders by the 31st inst. for the erection of a wooden freight warehouse in this city.—The New Brunswick Board of Fire Underwriters have notified the city council that unless improvements are made in the water supply the rates for insurance will be increased.

VICTORIA, B.C.—At the coming session of the legislature application will be made by a company, of which Beaumont Boggs is provincial secretary, for a charter to build a wagon road from Kitimat Arm to Hazelton, a distance of 120 miles. It is estimated that the road will cost \$100,000.—A company is being formed in this city to erect a tannery and curing establishment on the Skeena river, about 12 miles from Port Essington.—The Electric Light Committee of the city council will recommend the installation of an incandescent lighting plant capable of supplying 1,000 lights, to be used for lighting the city hall, market and fire halls and hospital.—W. S. Gore, Deputy Commissioner of Lands and Works, invites tenders up to February 28th for the construction of a wooden or steel bridge across the Thompson river at Kamloops. Plans at above department and on application to the Provincial Timber Inspector at Vancouver.—The British Columbia Electric Railway & Lighting Co. are believed to have in contemplation several improvements to their system as soon as the city shall have determined upon the question of replacing the James Bay and Rock Bay bridges with new structures and the paving of Yates street.

QUEBEC, QUE.—David Ouellet, architect, has prepared plans for the following buildings. Church to be built at St. Joseph Beauce, P.Q., to be 190 x 74 feet, of granite stone from Witton quarries, galvanized iron roof and steeple bells, inside to be completed in pine and cherry wood or birch, pulpit, pews, altars, etc., cost \$65,000, alterations and decorations to the church of St. Thomas at Montmagny, P.Q., new galvanized roof, altars, pews, etc., cost \$55,000; new church for the parish of St. Philemon, Dorchester, P.Q., frame work, shingle roof, steeple bells, inside to be pine painted and gilt, pews, altars, pulpits, etc., cost \$12,000; alterations to the church of Matane at Matane, P.Q., and to complete the inside, altars, pews, pulpits, bells, etc., cost \$20,000; residence for C. J. Rouleau, pastor of the church of Theoford Mines, frame, galvanized iron roof, plumbing, heating, etc., cost \$5,000; inside completion of the church of Grand Riviere, Co. of Gaspé, to be wood finished, painted and gilt, hardwood pews, communion table, pulpit, confessional altars, etc., cost \$10,000; alterations and inside completion of the church of St. Peter of Malbaie at Gaspé, to be wood finished, painted and gilt, altars, pews, pulpit, confessional, communion table, etc., cost \$8,000; dwelling for Rev. A. Gagnon, pastor of St. Georges of Malbaie at Gaspé, to be

framework, shingle roof, plumbing, etc., cost \$2,500. Tenders will be called for until May for the three last named contracts.

OTTAWA, ONT.—Emerald Court, Catholic Order of Foresters, have decided to place a large memorial window, to cost several hundred dollars, in St. Patrick's church.—The chief of the fire brigade, in his annual report to council, recommends the purchase of another steam fire engine, three hose wagons, 5,000 feet of hose, three hose towers, and a number of hydrants.—Geo. F. Macdonald, superintendent of the fire alarm system, has recommended the purchase of ten improved fire alarm boxes.—The Bank of Montreal has purchased the old government printing bureau on Wellington street. It is understood to be the intention of the bank authorities to erect on the site a modern bank building, for which plans will be prepared immediately. Accommodation will be provided for the government printing bureau in the Supreme Court building on Bank street, and the Supreme Court offices will be removed to the proposed geological survey building to be erected on Major's Hill park.—The Ottawa Improvement Commission, which has \$90,000 at its disposal this year, held a meeting last week to consider plans and estimates prepared by Robert Surtees, C.E., for the beautifying and macadamizing of King street. Three plans were submitted, one for a 90-foot roadway between the curbs, and the other for two roads or driveways, each of 32-foot width, with a bicycle track in the centre. Each of the plans include a bridge across the Rideau river at the foot of King street, to cost \$35,000.—The Victoria Yacht Club have under consideration the erection of a club house at Aylmer. The plans as prepared show a building to cost \$4,000. Particulars may be obtained from E. A. Olver.—D. W. Burr and E. N. Vernoy, of Scranton, Pa., were in the city last week in connection with the development of the Gatineau and other iron properties. It is understood that active work will be commenced at once, and that a spur line of the C.P.R. will be built to the mines.—F. Gourdeau, Deputy Minister of Marine and Fisheries, invites tenders up to 31st inst. for the construction of a wooden lighthouse tower at the entrance to Wood Harbor, in Shelburne County, N.S.

TORONTO, ONT.—Plans are being prepared for alterations to the Canada Permanent building on Toronto street, to meet the requirements of the new consolidated loan companies, comprising the Permanent, Western and Freehold companies. The offices will be considerably enlarged and new safes constructed.—A number of Toronto, London and Hamilton capitalists have applied for incorporation as the Ontario Starch Co., with capital of \$200,000. The head office will be in this city, but the factory will be built at either Kingston or Prescott.—Dr. Lynd, E. F. B. Johnson and others, of this city, have made application to the provincial government for a pulp wood concession in the Temiscamingue district, where it is proposed to erect a mill for the manufacture of pulp.—The city engineer, in his report to the Board of Works last week, recommended the widening of Gerrard street bridge to 61 feet and the raising of the grade to 2 per cent. The following local improvements were also recommended. Asphalt pavement on Boswell avenue, Avenue road to Bedford road, cost \$3,960; brick pavement on Church street, Queen to Bloor, cost \$5,040; reconstruction of macadam roadway on Denison avenue, Queen to Bellevue, cost \$4,010; brick pavement on Lombard street, Victoria to Church streets, cost \$5,540, and on Mercer street, John to Peter streets, cost \$4,700; cedar block pavement on Cottingham street, Yonge

street to Avenue road, cost \$4,140, and on Trinity street, King to Mill streets, cost \$1,015. Cement walks—183 feet on north side of Queen's park crescent, cost \$165; both sides of Boswell avenue, Avenue road to Bedford road, cost \$2,220, on east side Beverley street, Queen to Baldwin streets, cost \$1,956; on west side St. George street, Russell to Wilcox streets, cost \$546; east side Queen's park crescent, 100 feet, cost \$90.—The T. Eaton Co. have been granted permission to construct another tunnel under Albert street.—Sproatt & Rolph, architects, have prepared plans for a glycerine refining plant to be installed in connection with Lever Bros.' soap factory.—The council has given notice of its intention to construct the following works. Brick sewer on Dupont street, Howland avenue to Bathurst, cost \$2340; asphalt pavement on Huron street, St. Patrick to College, cost \$17,310; brick pavements on Niagara street, Bathurst to King, cost \$12,740; Pearl street, cost \$4,570; Front street, York to Simcoe, cost \$8,820; cement concrete sidewalks on portion of Huron street, cost \$1,195, and on Howland avenue, Bloor street to Barton avenue, cost \$1,673.—Building permits have been granted as follows: Rossin House Co., alterations and new store front, brick and wood, 119 King st. w., cost \$2,500 (F. H. Herbert, architect, Geo. Rathbone, builder); Jas. Henderson, Q. C., 2 storey and attic bk. dwelling, 17 Maple avenue, Rosedale, cost \$4,500 (F. H. Herbert, architect, Thompson Bros., builders); W. H. Pearson, 2 storey and attic brick and stone dwelling, Sherbourne st., near Elm ave., Rosedale, cost \$8,500 (F. H. Herbert, architect, Wickett Bros., builders); Mr. Bradshaw, 2 storey brick dwelling, Spadina road, near Bernard ave., cost \$8,000 (J. F. Brown, architect).

#### FIRES.

Grist mills at Brudenell, P.E.I., owned by Edward Munn, totally destroyed.—Steam saw mill of F. Hatfield at Tusket Wedge, N.S.; loss \$3,000, no insurance.—Residence of Fred Denison at Rosemount, N.W.T.—Four storey brick building of the Manitoba Produce & Commission Co. at Winnipeg, Man.; loss \$75,000, largely covered by insurance.—Dwelling and workshop of James Fletcher at Brockville, Ont.; loss \$2,500.—Lang & Co.'s dry goods store in Ottawa; loss on building, owned by H. T. McCarthy, \$1,500.—Lloyd's foundry and machine shop at Kentville, N.S., almost totally destroyed by fire last week. The building will be rebuilt.—Warehouse and granary of D. A. Murray at Dunvegan, Ont.; loss \$3,000.

#### CONTRACTS AWARDED.

SHEFFIELD, N.B.—New stone bridge. Holly Bridges, of Bridges Point, contractor.

ROSSLAND, B.C.—The Bank of British North America secured the \$20,000 debentures at 102.

PORI COLBORNE, ONT.—Augustine & Son have the contract for the erection of a two-storey residence for C. S. Kingston.

FORT WILLIAM, ONT.—A contract for 4,000,000 feet of lumber for the construction of the Ogilvie Milling Co.'s flour mill and elevator at this place has been let to Graham, Horne & Co.

KINGSTON, ONT.—Alterations to the Brown block for the Imperial Laundry Co.: Masonry, A. Newlands; carpentry, J. Jenkins; tinsmithing and plumbing, Nugent & Taylor; painting, T. McMahon.

HAMILTON, ONT.—Tenders were recently invited for furnishing the city with a considerable quantity of cast iron water pipe. The Gartshore-Thompson Pipe Foundry Co. submitted an offer of \$34 per ton delivered, which has been accepted.

**FINISHING RADIATORS IN WHITE WITH GLOSS.**

J. E. S., St. Louis, Mo., wants to know how to finish old radiators in white with gloss, so that heat heat will not discolor or blister the same.

Answer : Use old files and wire brushes to thoroughly remove all the old paint and loose scales, wash down with benzine and allow to dry. Give a priming coat of flake white in japan, thinned with turpentine only, and allow to dry hard. Next give a coat of French zinc in damar varnish, also thinned with turpentine, to which is added a little white enamel varnish, say one tablespoonful of varnish to a pint of the thinned zinc paint to produce a faint eggshell gloss. For the finishing coat use French zinc in damar varnish, thinned to brushing consistency with a good pale baking varnish. If heat can be introduced to bake on every coat, blistering need not be feared, but if heat cannot be had until the job is finished, every coat must be given plenty of time to thoroughly harden before another is applied.

**FRICION IN HOISTING TACKLE.**

The friction in hoisting tackle has been investigated recently by Mr. John Devin, superintendent of erection for the Berlin Iron Bridge Company. A pile hammer weighing 2,125 pounds was suspended by a four-part tackle with its hoist line led through a snatch block to a winch. A dynamometer was made to form part of the line at different places, and its readings were recorded. Disregarding friction, inertia, velocity, etc., the static strain in all parts of the funicular machine would be, of course,  $2125 \div 4 = 531 \frac{1}{4}$  pounds. In the first test the dynamometer was attached to the becket line, and registered 500 lbs. when lifting and holding the load, and 650 lbs. when lowering it. In the second test the dynamometer was attached to the hoist line between the snatch block and the winch, and registered 875 lbs. when the load was being lifted and 400 lbs. when it was being lowered. In the third test the dynamometer was attached to one of the moving parts of the line between the blocks, and registered 500 lbs. while the load was being hoisted and 575 lbs. while it was being lowered. The double blocks had first quality 10-inch sheaves with nut-line bushings, and were reeved in the usual manner with first-class 1-inch manilla line, led straight.—Engineering Record.

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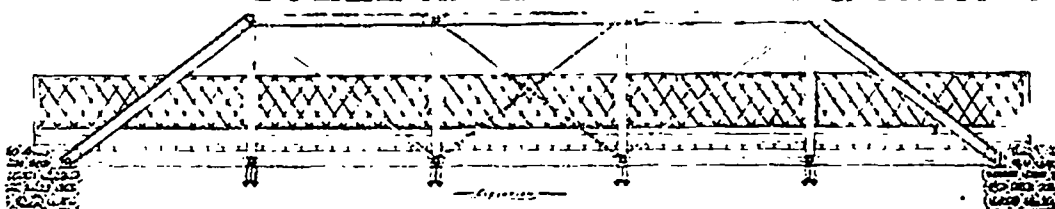
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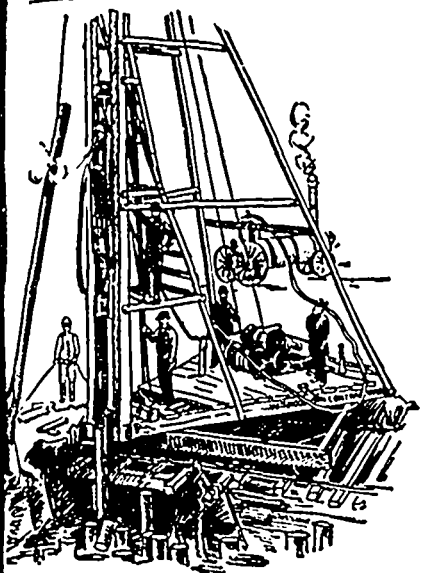
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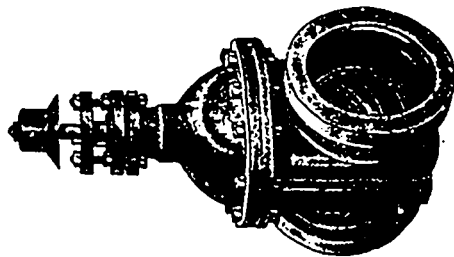
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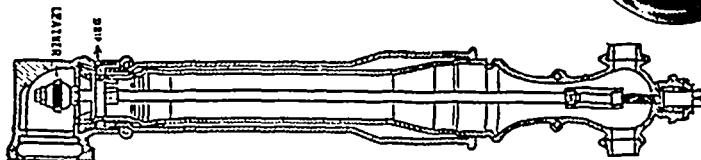
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# MUNICIPAL DEPARTMENT

## THE PAVEMENTS OF TORONTO.

The last report of the City Engineer gives some interesting information regarding the classes and cost of pavements constructed in the city of Toronto. The percentage of the different classes is given as follows. Cedar block, 36.80 per cent.; stone and scoria, .25 per cent.; asphalt, 7.10 per cent.; brick, 2.30 per cent.; wood on concrete, .23 per cent.; macadam, 16.25 per cent.; gravel, 1.76 per cent.; cedar block with asphalt between tracks, 1.45 per cent.; cedar block with brick between tracks, 2.88 per cent.; macadam with stone setts between tracks, .48 per cent.; unpaved, 30.50 per cent.

The approximate cost of each class of pavement is given as below:

Heavy asphalt (6 in. concrete, 2 1/2 in. asphalt)	\$2 70
Light asphalt (4 in. concrete, 2 in. asphalt)	2 15
Paving brick, on 4 inches concrete	1 60
" " on broken stone	1 45
" " on gravel	1 30
Cedar block, on 6 inches concrete (stone curb)	1 40
" " on 6 inches gravel (wooden curb)	70
" " relaid (wooden curb)	50
Macadam (stone curb) 1st class	1 20
" (wooden curb) and class	1 00
" " 3rd class	75
Gravel " " "	60

The asphalt pavements are guaranteed by the contractors for ten years and the brick for five years, and all other classes of pavement for one year.

Concerning the Local Improvement Act the City Engineer says:

There is another important matter which should be carefully considered by your council, viz., the amendment of the Local Improvement Act, so that where a sidewalk is so worn out as to be dangerous to public traffic, the City Engineer will be empowered to construct a new pavement, providing that his recommendation therefor is confirmed by a vote of two-thirds of the members of the council, notwithstanding the reception of a fully signed petition from the property owners concerned against the work. Legislation should also be obtained to enable the city to provide for the maintenance of cedar pavements and macadam and gravel roadways (which are only guaranteed by the contractor for one year) in the by-law covering the final cost of the work. The contractors have to maintain brick and asphalt pavements for five and ten years respectively. Under the existing Local Improvement Act, the city cannot include in the by-law covering the total cost of the work a sufficient sum of money to maintain pavements in proper repair after their completion, and I therefore suggest the advisability of obtaining necessary legislation to provide for the maintenance of pavements in the final costs of the various works. It would also be advisable, especially where a pavement is laid on a concrete foundation, that the city be empowered to construct sewer and water connections; and arrangements could also be made with the gas and electric companies whereby their connections could be made

and the cost charged against the property benefited.

## LEGAL DECISIONS AFFECTING MUNICIPALITIES.

**MCQUILLAN v. TOWN OF ST. MARY'S.**  
—Judgment in action tried at Stratford without a jury, brought to recover damages for injuries sustained by plaintiff, who, while walking in November, 1898, on the asphalt pavement on the south side of Queen street in the Town of St. Mary's, slipped on the ice and snow accumulated and fell, sustaining the injury complained of. Held, that the notice given in the action was valid. Held, also, that the defendants had been guilty of negligence in allowing a large body of snow and ice to accumulate and remain for a considerable time on so important a thoroughfare. Judgment for plaintiff for \$300 and costs of action.

## NEW GERMAN PAVER.

A new artificial stone especially useful for paving has been invented in Germany. The method of manufacture is described as follows: A mixture of pit coal and brimstone is heated, and to the half liquid mass chloride of lime is added. This is allowed to cool, when it is broken up into small pieces and to this is added finely broken slag. The mixture is pressed into briquettes at a pressure of 200 atmospheres.

As a paving it is noiseless, and has stood most successfully trials in places where the traffic was heavy and constant.

The death is announced of Mr. Thos. Matchett, clerk and treasurer of Victoria county, and a resident of Lindsay.

Mr. W. C. Moscrip, clerk of the county of Perth, Ont., was recently presented with a marble clock by the citizens of St. Marys, where he formerly resided.

Mr. W. A. Campbell, of Chatham, clerk of the county of Kent, was killed on January 9th by falling off a C.P.R. train at Milton. He was on his way to Toronto to bid farewell to his son, Sergeant W. A. Campbell, who was about to leave for South Africa with the Canadian Mounted Rifles.

The water works system for the town of St. Marys, Ont., is nearing completion, under the supervision of Mr. Willis Chipman, C.E., of Toronto. The pipes and specials for this system were supplied by the Gartshore-Thompson Pipe & Foundry Company, of Hamilton; the fire hydrants and valves by the Kerr Engine Company, of Walkerville; the valve boxes by the St. Lawrence Foundry Company, Toronto; the steel work for the water tower by John Inglis & Sons, of Toronto; while the contractor for the pumping station was Mr. Robert Clyde.



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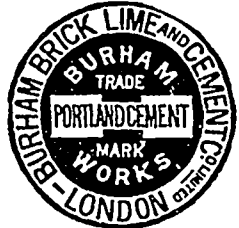
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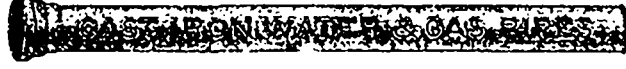
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<b>Architects.</b> Ontario Directory.....111 Quebec Directory..... vii	<b>Oresote Stains</b> Cabot, Samuel... IV	<b>Interior Decoration</b> Elliott & Son Company iv	<b>Roofers</b> Campbell & Gilday... Duthie & Sons, G... Forbes Roofing Co... Nicholson & Co, D... Ormsby & Co, A. B... Rennie & Son, Robt... Stewart & Co., W. T... Williams & Co., H... II
<b>Architectural Sculptors and Carvers.</b> Holbrook & Molling... I	<b>Drying Apparatus</b> Cummer & Son Co... 252	<b>Legal</b> Quinn & Morrison... III	<b>Sanitary Appliances</b> Ideal Mfg. Co..... The James Morrison Brass Mfg Co .. v
<b>Architectural Iron Work.</b> Dominion Bridge Co. I	<b>Drain Pipe</b> Bremner, Alex..... I Hamilton and Toronto Sewer Pipe Co. ... ix	<b>Mantles, Grates, and Tiles.</b> Chas. Rogers & Sons Co..... iv Holbrook & Mollington I Rice Lewis & Son... IV	<b>Stained and Decorative Glass</b> Bloomfield & Son, Henry..... Horwood & Sons, H. Lyon, N. T..... Leonard, B..... Mackey Stained Glass Co..... McKenzie's Stained Glass Works..... The Robert McCausland Stained Glass Co..... Wood & Co.....
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<b>Builders' Hardware.</b> Rice Lewis & Son... IV	<b>Flag-staffs and Windmills.</b> Gould, Shapley & Muir..... II	<b>Plumbers</b> Montreal Directory... x Toronto Directory... x	<b>Wall Plaster</b> Albert Mfg. Co..... I Alabastine Co..... I Bremner, Alex.....
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<b>Cements.</b> Bremner, Alex..... I Commercial Wood & Cement Co..... IV Owen Sound Portland Cement Co..... IV The Rathbun Co..... 252	<b>Heating.</b> Boston Blower Co... III Darling Bros..... 220 General Engin. Co ... II Gurne, J., Tulden Co. ii Leonard & Sons, E. IV Ormsby & Co., A. B. I		

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Masilion..... 30 00

Quebec and Vermont rough granite for building purposes, per c.ft. f.o.b. quarry

For ornamental work, cu. ft., Granite paving blocks, 8 in. t., 12 in. x 6 in. x 4 1/2 in. per M. 50 00

Granite curbing stone, 6 in. x 20 in. per lineal foot..... 70

**CREDIT VALLEY STONE.** F.O.B. Quarries.

Rubble, per car of 15 tons... 7 00

Brown Coursing, up to 10 in. per sup. yard..... 1 50 to 1 75

Brown Dimension, per cub. ft. 60

Grey Coursing, per sup. yard 1 00

Grey Dimension, per cub. ft. 45

**LONGFORD STONE.**

Rubble, per 30 M. car..... 5 00

Ashlar, per cub. yd..... 2 00

Dimension, per cub. ft..... 18

**SLATE.** Toronto. Montreal.

Roofing (per square).

" red.....	17 50	20 00
" purple.....	8 50	10 00
" unslating green.....	8 50	7 00 8 00
" black.....	7 50	6 50
Terra Cotta Tile, per sq.....	20 00	25 00
Ornamental Black Slate Roofing.....	8 80	6 80

**CEMENT, LIME, etc.**

Portland Cements—

German, per bbl.....	2 90	3 10	2 55	2 65
London.....	2 95	3 00	2 25	2 45
Newcas.....	2 70	3 00	1 95	2 10
" Jovco " Brand Portland " Dyckerhut.....	3 05	3 25	2 70	2 80
North's "Condor".....	3 05	3 25	2 75	2 80
English, artificial, per bbl.....	2 95	3 10	2 05	2 20
Belgian, natural, per bbl.....	2 85	3 00	2 35	2 45
Canadian, artificial, ".....	2 50	2 75	2 00	2 20
Roman.....	2 85	3 00	2 60	2 70
Parian.....	2 20	2 25	2 20	2 25
Keene Superfine "Whites".....	5 25	5 25	5 75	5 75
Keene's Coarse "Whites".....	2 10	2 00	0 00	10 00
" Karlstadt " (German).....	8 00	8 50	8 00	9 00
" Germania " (German).....	3 05	3 25	2 75	2 90
" Rooster " (Belgian).....	3 05	3 25	2 75	2 90
" Keystone " (Belgian).....	2 15	2 20	2 15	2 20
" Anvil " (Belgian).....	2 05	2 05	1 95	2 05
" Burham " (English).....	2 95	3 00	2 25	2 45

Hydraulic Cements—

Thorold, per bbl.....	1 50	1 65
Queenston, ".....	1 50	1 60
Napanee, ".....	1 50	1 50
Hull, ".....	1 50	1 50
Ontario, ".....	1 25	

**Toronto. Montreal.**

Fire Bricks, Newcastle, per M 30 00 35 00 16 00 21 00

Scotch " 30 00 35 00 19 00 21 00

Lime, 100 lbs., Grey..... 25

" " White..... 30

Plaster, Calcined, N. B..... 2 00 1 50

" " N. S..... 2 00 1 50

Hair, Plasterers', per bag... 80 1 00 00

**HARDWARE.**

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

Cut nails, 50d & 60d, per keg 2 65 2 60

Steel " " " " 2 75 2 70

**CUT NAILS, FENCE AND CUT SPIKES.**

40d, hot cut, per 100 lbs. .... 2 65 2 60

10 to 30d, hot cut..... 2 75 2 70

8d, 9d, " "..... 2 80 2 75

6d, 7d, " "..... 2 95 2 90

4d to 5d, " "..... 3 05 3 00

3d, " "..... 3 30 3 25

2d, " "..... 3 65 3 60

Cut spikes, 10 cents per keg advance.

Steel Nails, 1cc. per keg extra.

Wire nails, 3-40 Lase price.

**Iron Pipe:**

Iron pipe, 1/2 inch, per foot... 6c.

" " 3/4 " " " " 7c.

" " 1 " " " " 8 1/2c.

" " 1 1/2 " " " " 12c.

" " 2 " " " " 17c.

" " 2 1/2 " " " " 24c.

" " 3 " " " " 30c.

" " 4 " " " " 43c.

**Lead Pipe:**

Lead pipe, per lb..... 7c.

Waste pipe, per lb..... 7 1/2c.

**Galvanized Iron:**

Adam's—Mar's Best and Queen's Head and Opello:

16 to 24 gauge, per lb..... 4 1/2c.

26 gauge, " "..... 4 1/2c.

28 " "..... 5 3/4c.

Gordon Crown—

16 to 24 gauge, per lb..... 4 1/2c.

26 gauge, " "..... 4 1/2c.

28 " "..... 5 3/4c.

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

**Structural Iron:**

Steel Beams, per 100 lbs..... 2 75

" channels, "..... 2 85

" angles, "..... 2 50

" tee, "..... 2 80

" plates, "..... 2 85

Sheared steel bridge plate...