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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. 10.

FEBRUARY 22, 1899

No. 4.

THE CANADIAN CONTRACT RECORD, PUBLISHED EVERY WEDNESDAY

An Intermediate Edition of the "Canadian Architect and Builder."

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Sealed Tenders

Will be received until SATURDAY, FEBRUARY 25TH, for all trades, except heating and plumbing, required in making alterations and additions to a residence in Toronto.

Plans and specifications may be seen at the office of the architect, to whom tenders are to be addressed.
The lowest or any tender not necessarily accepted.
F. S. BAKER, Architect, 90 Yonge St., Toronto.

Tenders Wanted.

Whole or separate tenders will be received by the undersigned up to and including noon, MARCH 6TH, for the erection and completion of a church for the Melville Presbyterian congregation at Fergus.

The lowest or any tender not necessarily accepted.
Plans and specifications may be seen at the office of Powell & Wideman, Guelph.

H. J. POWELL, Architect,
Stratford, Ont.

CONTRACTS OPEN.

LINDSAY, ONT.—John Carew proposes making some alterations to his saw mill.

DELORAINÉ, MAN.—J. Lochead will build a brick block for the Union Bank.

INWOOD, ONT. Frank Carson, of the Royal Exchange, intends building in the spring.

NANAIMO, B. C.—It is probable that the town will purchase a new steam fire engine.

BEDFORD, N.S.—A new church will be erected by the Church of England congregation.

BONAVENTURE, QUE.—R. N. LeBlanc & Company are preparing to build a grist mill, 60x30 feet.

TUPPERVILLE, ONT.—There is a movement on foot to construct a swing bridge here, to cost \$20,000.

PLANTAGENET, ONT.—The C. P. R. Company intend building a large summer hotel here in the spring.

WILLIAMSTOWN, ONT.—It is the intention to erect a new High school on the site of the present building.

BEAR RIVER, N.S.—The Bear River Electric Light Company have decided to extend their system to Digby.

RENFREW, ONT.—The Brockville Peat Company propose to establish a plant here for the manufacture of peat.

ASHCROFT, B.C.—It is learned that the survey for the Ashcroft-Queenslie railway will be commenced immediately.

BEAMSVILLE, ONT.—R. O. Konkle's saw mill at this place was wrecked by a boiler explosion on the 20th inst.

ARMSTRONG, B. C.—G. B. Johnston announces his intention to build an addition to the Cariboo Exchange.

BARRIE, ONT.—Thos. Kennedy & Co., architects, will invite tenders next week for a building for George Plaxton.

REGINA, N.W.T.—The Roman Catholic ratepayers will probably take steps at an early date to build a separate school.

HANOVER, ONT.—The Knechtel Furniture Company are about to erect an addition, brick, two storeys, 28x45 feet.

OTTAWA EAST, ONT.—The congregation of Holy Trinity church are considering the advisability of building a rectory.

NEW DENVER, B. C.—The Anglican congregation purpose building a new church, for which plans have been prepared.

STRATFORD, ONT.—The time for receiving tenders for Rev. Father Downey's church in Logan has been extended to the 22nd inst.

SMITH'S FALLS, ONT.—The Smiths Falls, Rideau & Southern Railway Co. want authority to extend their road to Gananoque.

KINCARDINE, ONT.—The Farmers' Elevator and Shipping Co., which is being

ELECTRIC LIGHT PLANT

Sealed proposals will be received by the Electric Light Committee of the City Council of the City of Halifax, Nova Scotia, until twelve o'clock, noon, on WEDNESDAY, MARCH 8TH, 1899, for the manufacture, erection and equipment of an ELECTRIC LIGHTING PLANT for lighting the streets and public buildings of the city.

Specifications and other information may be obtained from the City Engineer or City Electrician.

The City Council hereby reserves the right to reject any or all tenders, or to accept separate tenders for any portion or portions of the work or any tender or tenders in their judgment will be for the best interest of the City.

Each proposal must be made on the form furnished by the City Engineer, and must be endorsed "Tender addressed to Ald. Mosher, Chairman of the Committee on Electric Lighting, City Engineer's office, Halifax, N.S."

Plans and accompanying papers, photographs, etc., shall become the property of the City.

F. W. W. DOANE,
City Engineer.

City Hall, Halifax, N.S., Feb. 4th, 1899.



TO ARCHITECTS.

Notice is hereby given that the City of Toronto will receive up to noon on

Monday, the 3rd day of April Next,

competitive plans for the improvement of St Lawrence Market.

The city will award the carrying out and supervision of the work to the architect whose plan is accepted, and will pay a 5 per cent. commission on the cost of the work, which commission, however, will not in any case exceed the sum of \$5,000. The second best plan will be awarded a prize of \$200, and the third best \$100.

The plans sent in will be submitted to three experts, viz., C. H. Rust, C.E., City Engineer; E. J. Lennox, architect; and Robert McCallum, C.E., Government engineer. The competition is open to all Canadian architects residing in Canada.

Terms and conditions governing the competition, a block plan showing the location of the buildings at present on the site, and all further information can be obtained upon application at the office of the City Engineer, City Hall, on and after Wednesday, the 22nd instant. The city reserves the right to reject any and all plans.

JOHN SHAW (Mayor),
Chairman Board of Control.

City Hall, Toronto, Feb. 18th, 1899.

DATE OF PUBLICATION.

Architects, Engineers, Municipal Authorities and others are reminded that the CONTRACT RECORD is printed every Tuesday afternoon, and that advertisements should reach the office of publication not later than 2 o'clock p.m. on that day to ensure insertion in the issue of the current week. Advertisements are frequently received too late for insertion, to avoid which special attention is directed to this announcement.

E. J. O'Brien has registered proprietor of the People's Plumbing Company, Montreal. Lesperance & Terriault have formed a partnership as plumbers and steamfitters in same city.

Notice to Contractors

Tenders Wanted for the Construction of Water Works System for the Town of Stayner, Ont.

Tenders by registered mail, will be received by the Chairman of Fire and Waterworks Committee up to the office of the City Engineer on WEDNESDAY, THE FIRST DAY OF MARCH NEXT, for the Construction of Water Works System, comprising the following items, viz.:

- Drainage of Springs with Agricultural Drainages, with Brick Intake Chamber.
- Main from Intake Chamber to Reservoir.
- Storage Reservoir, with Valve Chamber and Pipes.
- Main from Storage Reservoirs to Town of Stayner.
- Distribution Mains in Town, with Valves and Fittings, and all Specials connected therewith.

Specifications and drawings may be seen at the Town of Stayner, Ont., and at the office of John Galt, C. M. E., Canada Life Building, Toronto, from 10 o'clock a.m. to 5 o'clock p.m. on and after Wednesday, the 15th day of February, inst.

Tenders must be in Lump Sum.
Tenders must be certified bank cheque payable to the order of the Treasurer of the Town of Stayner for ten per cent. of amount tendered, must accompany each proposal, and will be ruled out as informal.
The Corporation do not bind themselves to accept the lowest or any tender.

WILLIAM McBETH,
Chairman of Fire and Waterworks Committee.
Stayner, Ont., Feb'y 14th, 1899.

organized, will probably erect a new building.

BROCKVILLE, ONT.—It is said that Thos. Tompkins, contractor, will build a large hotel on the corner of King and Home streets.

BELLEVILLE, ONT.—Mr. Henry Corby, M.P., announces that he proposes to build an elevator here with a capacity of 500,000 bushels.

KEMPTVILLE, ONT.—The Kemptville Milling Co. have purchased the electric light plant from J. J. Collins, and will add new machinery.

BEACHBURG, ONT.—Tenders are wanted by Hugh R. Ryan, clerk, up to March 4th, for building a bridge over McCracken's creek.

WINDSOR, N. S.—The ratepayers have voted \$2,000 for a site for a public building, \$5,000 for a town hall, and \$5,000 for a steam fire engine.

LIVERPOOL, N. S.—The government has decided to erect a battery of guns at Fort Point, and tenders have been issued for the platform, etc.

PETROLEA, ONT.—Liberal subscriptions have been received towards the erection of the proposed Methodist church. Mr. Phillips is pastor.

LONGUEUIL, QUE.—The corporation has applied to the provincial legislature for permission to construct a railway from this place to St. Lambert.

ST. MARY'S, ONT.—Tenders are wanted by W. K. McLeod up to March 1st for the erection of skimming stations and alterations to cheese factory.

THESSALON, ONT.—The congregation of the Methodist church has passed a resolution to take steps immediately to build a church, to cost \$2,000.

PORT ARTHUR, ONT.—Surveys are now being made by ten parties for the proposed Ontario & Rainy River Railway from Port Arthur to Winnipeg.

FREDERICTON, N. B.—J. W. Tabor and George O'Neill have leased the Blair factory, and will operate it as a planing mill and sash and door factory.

GOWANSTOWN, ONT.—A. Kress is asking for tenders for the erection of a brick hotel, from plans prepared by W. E. Binning, architect, of Listowel.

GUELPH, ONT.—Powell & Wideman, architects, want tenders by March 6th for the erection of a church for the Melville Presbyterian congregation, Fergus.

HULL, QUE.—The Interprovincial Bridge Company has been granted permission by the city council to build an overhead bridge on Laurier avenue.

BRANTFORD, ONT.—A number of merchants and farmers have decided to form a company for the purpose of establishing a pork-packing factory.

HESPELER, ONT.—The town will likely dispose of a portion of the public park to William A. Kribs, M.P.P., who will erect a box and wood-working factory thereon.

RICHMOND HILL, ONT.—The plans for the new market buildings have been completed, and show a bank and express office on Yonge street, with elevator in rear.

WOODSTOCK, ONT.—It is stated that the C.P.R. will erect a new station here, to cost \$13,000.—There is a movement in favor of building a new fire hall, at a cost of \$5,000.

LENNOXVILLE, QUE.—J. B. Orr, chairman Light Committee of the Council, desires tenders by the 28th inst. for lighting the streets of the town with electricity.

SHELburne, ONT.—The plans submitted by J. Francis Brown, architect, of Toronto, for the proposed eight-room school building, have been adopted by the school board.

SHERBROOKE, QUE.—A committee has been appointed to report on a scheme for the erection of a new city hall and market building, which will cost in the neighborhood of \$100,000.

WELLAND, ONT.—C. H. Riley, chairman Road and Bridge Committee, will receive tenders up to Feb'y 27th for the supply of building stone and white oak and pine timber.

PARRY SOUND, ONT.—The McDougall Lumber Company is about to commence the erection of a new mill on the old Beatty site. J. M. Gill, of Orillia, is a member of the company.

MALLORYTOWN, ONT.—D. S. Mallory invites tenders for the erection of a brick store and office.—John Kelly, township clerk, desires tenders by March 11th for the crushing and spreading on the road of 500 cords of stone.

NELSON, B. C.—The Hume Hotel company, Limited, has been incorporated, with a capital of \$50,000, to build hotels in this province.—J. Y. Giffin & Co. of Winnipeg, purpose building a large warehouse at this place.

ARNPRIOR, ONT.—The commission appointed to secure information regarding the cost of a waterworks system is composed of R. Dulmage, G. Jarvis, M. Galligan A. J. Campbell, Armour Burwash, the Mayor, and councillors Keddy and Grace.

VICTORIA, B. C.—Wellington J. Dowler desires applications by March 15th for the position of city and waterworks engineer for the corporation.—Local architects are preparing competitive plans for a four-storey brick building to be erected by T. P. MacGregor.

SAULT STE. MARIE, ONT.—Hearst & McKay, solicitors, are asking incorporation for the Worthington and Onaping Railway Company, with power to build a railway from Worthington Station to Onaping, and to use steam or electricity as the motive power.

TRURO, N. S.—On the 25th inst. a meeting of ratepayers will be held for the purpose of considering the advisability of authorizing the town to borrow \$5,000 for fire protection purposes and \$7,000 for repairs and improvements to the head-works of the waterworks system.

MIDLAND, ONT.—An agreement has been signed between the town and the Canada Furnace Company, of Montreal, by which the latter agree to erect a smelting furnace in this town. The sum of \$250,000 is to be expended on plant in three years, and the whole work is to cost \$1,000,000.

HAMILTON, ONT.—The building committee of the Central Presbyterian Church have adopted plans for improvements. About \$8,000 will be expended in reseating and making alterations to the gallery and pulpit.—The Market Committee has decided to advertise for tenders for new iron stands on the market.

LONDON, ONT.—A. O. Graydon, city engineer, wants tenders by 5 p.m. of the 23rd inst. for the supply of plank sidewalks, artificial stone walks, concrete curbing, sewer pipes, cement, lumber, nails, cedar blocks, gravel, iron castings, etc.—The city engineer desires tenders by March 1st for one galvanized steel tank watering cart.

HALIFAX, N. S.—The directors of the Nova Scotia Steel Co. have received an offer from H. M. Whitney for iron properties in Newfoundland. If accepted, extensive iron works will be established in Cape Breton.—Campbell, Shier & Co., of London, Eng., propose to erect in this city an abattoir and cold storage warehouse, to cost \$500,000.

BRIDGEWATER, N. S.—The Nova Scotia Electric Light Company is asking for a provincial charter, the object being

to distribute electricity to all points in the valley from Windsor to Annapolis, with branches to outlying points. The source of power will be the head waters of the Gaspereau river. Messrs. Wade & Patton, of this town, are solicitors for the company.

NEW WESTMINSTER, B. C.—The new R. C. church, for which tenders are now being invited, will be erected at the corner of Dunsmuir and Richard streets, and will cost \$60,000.—A three storey brick hotel will shortly be built on the site of the Hotel Douglas, to be under the management of J. Crean.—It is reported that the sash and door factory of the Brunette Saw Mill Company at Sapperton has been wrecked by a boiler explosion.

ST. JOHN, N. B.—Captain Partington, of Liverpool, Eng., has agreed to take two-thirds of the stock in the Cushing pulp mill at Union Point. This assures the building of the mill.—The city engineer has submitted to the council a plan for an extension of the deep water wharf improvements on the western side of the harbor. The works will consist of wharves, cost \$235,000; warehouses, cost \$28,500; and dredging, cost \$250,000.—D. F. Maxwell, C. E., has secured for a company of New York capitalists options on some water powers on the St. Croix river, on which to erect a pulp mill.

ROSSLAND, B. C.—The West Kootenay Power and Light Co. are said to be considering the practicability of installing electrical pumps for mining operations.—The city council will petition the Provincial Board of Health for permission to discharge the sewage of the city into the Columbia river.—The Rossland Air Supply Co., which has just been incorporated, will proceed at once to put in the necessary plant for the operation of drills, pumps, etc., by compressed air.—A chief of the fire department is wanted, applications to be received by William McQueen, city clerk, by March 1st; salary, \$125 per month.

VANCOUVER, B. C.—The plans of Mr. Bailey have been accepted for the new municipal hall to be built on the Vancouver road, Burnaby.—The estimates for the year were presented to the School Board last week, and include \$5,000 for a brick gymnasium building, this estimate being made by William Blackmore, architect.—The Diamond Vitrified Brick Company, of this city, has been incorporated.—The British Columbia Portland Cement Company have leased from the C.P.R. the cement works at False creek. It is the intention of the new proprietors to install new machinery and to greatly increase the capacity of the works.

RAT PORTAGE, ONT.—Surveys are being made for the new dock to be built by the Rainy River Navigation Company.—Building operations promise to be unusually brisk this year. Among the buildings likely to be erected are the following: Round-house and station for the C.P.R., cost \$150,000; three-storey brick block, 50x70 feet, for McVeigh Walsh; cold storage plant for McDonald Bros.; buildings for Geo. W. Fullerton and Postmaster Parsons; brick block for Geo. Drewry; brick block for Mr. Sharpe, cost \$6,000; new Presbyterian church, and several residences. The waterworks also be completed, at cost of \$75,000.

MONTREAL, QUE.—The Road Committee of the City Council will likely recommend the construction of a subway under the C.P.R. tracks at the head of St. Dea street. This work will cost about \$5,000,000.—The management committee of the Maternity Hospital have appointed a sub-committee to secure plans and determine upon a suitable site for a new hospital building. Messrs. C. S. Clousen and Wolferstan Thomas are members of the committee.—The management of the P.

testant Hospital for the Insane will be compelled at an early date to undertake the reconstruction of the existing water conduits.—The Midland Railway Co., 30 St John street, want tenders by March 1st for the construction of the substructure of the Shubenacadie bridge, including crib-work, foundations, abutments, pedestals and piers. Plans are also on view at 431 Gilmour street, Ottawa, and at Windsor, N.S.

WINNIPEG, MAN.—Mark Fortune has purchased, for a client, the old Commercial Hotel on Lombard Street. It is understood that new buildings will be erected on the property.—Dr. Inglis, Health Officer, has made a report regarding the condition of the police station cells. He recommends the erection of a separate house of detention, and a bath and disinfecting room for the present building.—It is not yet known whether the Manitoba Hotel, recently burned, will be rebuilt. It is possible that the C. P. R. will regard the present as an opportune time to erect a large hotel, while the Board of Trade favor the erection of an up-to-date hostelry.—Mr. S. F. Peters, architect, is visiting a number of United States cities, and while absent will prepare plans for a number of buildings to be erected here this year.—The Dominion Bank are reported to have purchased property at the corner of Main and McDermott streets, with the intention of erecting a bank building thereon during the coming summer.

TORONTO, ONT.—It is the intention of the Ontario government to raise the roof and make additions to the asylum at Brockville. Alterations will also be made to the Mercer Reformatory in this city, at a cost of \$3,000.—A scheme is under consideration for the lowering of the Grand Trunk roadbed grade between Queen's wharf and the Humber. If carried out, several overhead bridges will be required.—Building permits have been granted as follows: E. Woodley, two 2-storey and attic brick residences, corner Avenue road and Dupont street, cost \$2,500; Bertram Engine Works Co., one-storey enclosed shipyard on water front, south of Esplanade, east of Bathurst street, cost \$7,000.—Plans are being prepared by Messrs. Symons & Rae, architects, for the reconstruction of the warehouse of Gowans, Kent & Co., destroyed by fire recently. Tenders for clearing the premises have been taken.—Canadian architects are invited by the city to submit plans for the proposed improvements and alterations to St. Lawrence market. The architect whose design is accepted will be paid a commission of five per cent. on the cost of the work, estimated at \$150,000, and \$200 and \$100 will be paid as second and third prizes. The judges will be Mr. C. H. Rust, Mr. E. J. Lennox, architect, and Mr. R. McCallum, government engineer.—A civic deputation, which will visit Ottawa shortly, will ask the government to enlarge the armouries in order to provide accommodation for the cavalry and artillery.—The Board of Control have concurred in the report of the city engineer that the sum of \$13,000 be provided for a new bridge across the Humber river, and the work will therefore be proceeded with. The track allowance on King street east, from Sherbourne to River streets, will be paved.—The city will ask authority from the government to issue debentures for \$163,000 for the completion of the new city hall.

OTTAWA, ONT.—The construction of the new scientific building in connection with the University of Ottawa will be commenced in the spring. It will be three storeys, with basement and an observatory.—Mr. J. R. Booth has notified the Government that he desires to obtain possession of the militia stores building in order to commence the erection of the new central depot.—St. Patrick's Literary and Scientific Association, at its last meet-

ing, discussed the question of a site for a building for the Irish societies of the city. It is probable that a four storey structure, with gymnasium, bowling alleys, reading rooms, library, etc., will be erected.—Tenders will be invited immediately for the completion of the Church of the Sacred Heart in this city. The plans, as prepared by Mr. Gauthier, of Montreal, show a large entrance surmounted by a tower 240 feet in height. The cost will be about \$30,000.—The directors of the Central Canada Fair Association, in their annual report, point out the necessity of erecting an additional building.—Inspector Robert Howe, of the Canadian Fire Underwriters' Association, has made a report regarding the fire protection of the city. He recommends that two new steamers and additional hose be procured, and that the water mains be extended on several streets.—The County Council has engaged Mr. Bigger, C.E., to prepare a report as to the best method of preventing the Rideau floods.—The Separate School Board will probably build a new school on the Glebe next summer, the ratepayers having petitioned for same.—Government engineers are taking soundings for the proposed wharf on the Hull side of the river, the cost of which will be about \$50,000.—The trustees of the West End Methodist church have decided to make alterations to the building.

FIRES.

A building at Almonte, Ont., owned by Thomas white; loss \$1,500.—School house at Cody's Corners, near Embro, Ont.—Saw mill at Moberly, B. C.—Carrriage shop and residence of Frank McCharles at Ruthven, Ont.; loss \$7,000, no insurance.—The Oddfellows' block and the Royal Exchange Hotel block at Chatham, Ont., completely destroyed; loss \$30,000, insurance \$24,000.—The Scovil block at Rat Portage, Ont., seriously damaged by fire; loss covered by insurance.—Joseph Saunder's wood-working and blacksmith shop at Sunderland, Ont., totally destroyed.—Block at Bathurst, N. B., containing T. P. Smith's drug store, Adams, Burns & Co.'s store, and Henry White's saloon and dwelling.—Joseph McDonald's store and residence, and H. McLean's residence at Cornwall, Ont.; partially insured.—Residence of E. H. Head, architect, at Rat Portage, Ont., almost completely destroyed; insurance \$1,500.—Residence of Patrick McDonald, in the township of East Zorra, near Woodstock, Ont.—Saw mill at Cranbrook, B. C.; James Mundie, of Winnipeg, is one of the principal shareholders.—Palace skating rink at Paris, Ont.; insurance \$1,100.—Building at Berlin, Ont., occupied by the G. R. Stouffer Co.; loss \$1,000.—Building at 130 Adelaide street east, Toronto, occupied by Todhunter, Mitchell & Co., and owned by The Toronto Financial Corporation; loss, \$10,000.—Residence of B. A. Belyea, at Southampton, Ont.; loss \$4,500.

CONTRACTS AWARDED.

ROSSLAND, B. C.—The contract has been let for the new Wallace building, which will be 30 x 90 feet, cost \$4,500; George N. Taylor, architect.

VANCOUVER, B. C.—Thos. McKinnon has secured the contract for building cold storage and bottling works for the Pabst Brewing Company, of Milwaukee; building will be two storeys, with stone basement, cost \$30,000.

MONTREAL, QUE.—The Dominion Bridge Company has secured the contract for the steel superstructure of all the bridges on the Midland Railway between Windsor and Truro, N. S. The general contractor for the building of this railway is W. G. Reid, of this city.

BARRIE, ONT.—Thos. Kennedy & Co., architects, have awarded the contracts for Mr. Thos. Johnson's building, lately damaged by fire, as follows: Stapelton & Son, brickwork; Jos. Armstrong, plastering; Rodgers & Gallie, carpenter work; P. Love, painting and glazing; P. J. Moore, galvanized iron work and plumbing. The same architects have awarded contracts for J. S. Johnson's residence as follows: J. Smith, carpenter work; Stapelton & Son, brickwork; Jos. Armstrong, plastering; J. Nulands, galvanized ironwork and plumbing; A. Bowin, painting and glazing.

NEW WESTMINSTER, B. C.—E. Guenther, architect, received tenders as follows for the erection of a dwelling for F Eickhoff: Carpenter work—J. C. McArthur, \$1,125; Jas. C. Allen, \$890; H. F. Pound, \$1,100; M. W. Minthorne, \$924; H. C. Wood, \$1,093; D. D. Grant, \$885. Plastering and brickwork—L. F. Christian, \$250. J. H. Trete, \$265; J. C. McArthur, \$272. Painting—Williams & Purvis, \$122; Samuel Murchison, \$95; G. F. Welch, \$126; C. F. Pound, \$115; J. C. McArthur, \$130. Complete work, including plumbing—J. C. McArthur, \$1,685; H. C. Wood, \$1,623; D. D. Grant, \$1,405. The tender of D. D. Grant has been accepted.

TORONTO, ONT.—The Board of Control have accepted the tender of Charles Rogers & Co. for the carpenter work, and that of A. M. Brown for the painting and glazing, required in fitting up the several departments in the new municipal buildings. Oak finish will be used. The tenders as accepted are as follows:

	Carpenter work.	Painting and glazing.
Engineer's Department.....	\$1,220	\$ 630
Street Commissioner.....	698	218
Medical Health Officer.....	769	224
Park Commissioner.....	371	129
City Commissioner.....	557	190
City Clerk.....	1,500	660
City Solicitor.....	1,450	804
Assessment Commissioner.....	3,050	990

Total..... \$9,615 \$3,845
Pavement contracts have been awarded by the city as follows: Macadam roadways—Sumach street, Gerrard street to Wellesley street, Dominion Paving and Contracting Co., \$5,012; Parliament street, Queen to Gerrard, Dominion Paving and Contracting Co., \$7,395; Victor avenue, Logan avenue to Broadview avenue, D. P. & C. Co., \$4,051; First avenue, Broadview to Logan avenue, J. F. Connolly, \$7,166; South drive, south to Glen road, J. F. Connolly, \$1,549; Wellesley street, Parliament to Sumach, D. P. & C. Co., \$5,338. Brick pavements—Crawford street, Arthur to north terminus, Dominion Paving & Contracting Co., \$6,729; Orford avenue, Parliament to 243 feet east, City Engineer, \$1,096; Orford ave., Clara street to 119 feet west, City Engineer, \$383. Asphalt pavement—Station street, Simcoe to York, Warren-Scharff Co., \$9,488. Concrete sidewalk—Orford ave., 362 feet, at 60 cents per lineal foot, to James Nurse. Furnishing macadam stone—50 toise, at \$7.25 per toise, James H. Golding; 450 toise, at \$9.45 per toise, to M. Britnell.

BIDS.

TORONTO, ONT.—Tenders for iron and wood vault fittings for departments in the new city buildings were opened by the Board of Control last week, but decision upon them was deferred, the board deciding to confer with the heads of the several departments as to whether or not iron or wood fittings should be used. Three tenders were received for the iron fittings, as follows. Tender 1, without files, \$8,317, and with files, \$9,973; tender 2, \$8,398 and \$10,084; tender 3, \$7,950 and \$9,354. There were two tenders for fittings in wood, the amounts asked being \$3,558 and \$3,848 respectively.

PERCOLATION THROUGH BRICK AND STONE.

The results of some experiments to ascertain the most effective material for checking the percolation of water through brick or stone work are given by Mr. A. W. Hale in a recent number of the Engineering and Mining Journal. The investigation was mainly carried out in connection with the new Croton aqueduct of New York, and the substances employed in the experiments were numerous and varied. It was found that Portland cement gave the best results, and that the hydrocarbons, which are commonly regarded as suitable materials for rendering brick or stone impervious to water, oxidised by exposure to air and gradually disappeared. It was also found that a brick was rendered impervious to water by cement more rapidly when the cement was applied as a wash by means of a brush than when applied with a trowel in the usual manner. A brick which had been treated with four cement washes was found at the expiration of two months to be quite impervious to water, even under a pressure of 200 lbs. per square inch.

PROTECTION COATING.

Plastique Bordin, a paint to protect wood or iron against the action of acids, is said to be obtained by the melting together of resin with powdered charcoal, spermaceti and animal charcoal with admixture of linseed oil varnish and vaseline, the proportions varying and being adapted to the respective demands upon the elasticity of the coating. According to the "Lock and Farbin Industrie" the preparation of the paint should take place shortly before application.

RUST PREVENTING PAINT.

Dr. B. Kossmann, of Charlottenberg, Germany, has secured a patent from the imperial government covering a rust-preventing paint, composed of the peroxides of earths of the cerium group. The oxides in question are incorporated with linseed oil varnish, to which is added, as a drier, a portion of linseed oil boiled with a mixture of boric acid and the said peroxides. The resulting paint can be colored with graphite, lampblack, heavy spar, etc., and it is said to fulfill all the requirements exacted of such composition—viz., a sufficient oxygen content to insure the resinification of the linseed varnish and freedom from any metallic base capable of setting up an electrical action with iron, and so causing the formation of rust.

PAINT SKIN COVERING FOR FLOORS AND WALLS.

This covering is produced in Germany by applying oil paint or varnish paint on very thin tissue paper,

reinforcing the first coat, after drying, by any desired number of further coatings, and decorating so that the whole constitutes a strong, tough oil paint skin. This is fixed by means of an adhesive agent, such as oil or resin putty or paste in sheets on the surfaces of the floor or wall. These paint skin coverings are an improvement on ordinary interior and decorative painting, inasmuch as they can be produced at a factory and can thus be decorated in a more tasteful and thorough manner than it is possible in painting by the use of stencils and the like, says the "Farben Zeitung." Furthermore, the decorations can be patched and repainted by applying new sheets in worn out places.

RISKS FROM DEFECTIVE MORTARS

The risks from using defective mortar are numerous, for local authorities have in most places absolute power for dealing with it. A decision which was given recently in London, England, by Mr. Justice Bruce in *Smith vs. Johnson*, reveals that a building owner can also have his remedy against a contractor who is not careful in using such mortar as is considered necessary for safe building. The plaintiff contracted with the defendant for mortar which was to be used in the extension of a dormitory attached to a lodging house in Whitechapel after the completion of the work. The plaintiff was ordered to take down and rebuild the dormitory because the mortar did not meet the require-

ments of the Building Act. According to the by-laws the mortar to be used must be composed of freshly-burned lime and clean sharp sand or grit without earthy matter in the proportions of one of lime to three of sand or grit. The dormitory was rebuilt as ordered. Then the plaintiff sought to obtain from defendant the money expended on the work as well as a sum for loss of rent. It was maintained that the quality of the mortar could not be detected because it was in a wet state. Counsel for defendant maintained that when the contract was made it was not understood that if the mortar was unsuitable it would be necessary to take down and rebuild the dormitory. Besides, the plaintiff should have rejected the mortar when it was supplied. Plaintiff's counsel held that the quality of the mortar could not be ascertained until it was used, and as the rebuilding was the result of defendant's acts, he must be held liable for the cost of the rebuilding. Mr. Justice Bruce considered that, according to the evidence, as the mortar was in a wet state, no reasonable diligence on the part of the plaintiff could have discovered the defects until the mortar was used. The plaintiff was therefore entitled to recover the expense of pulling down and rebuilding, as well as damages. His Lordship assessed the amount at £101. The Builders' Reporter says that the case is novel, and hopes it will compel builders to give more attention to the ingredients of mortar.

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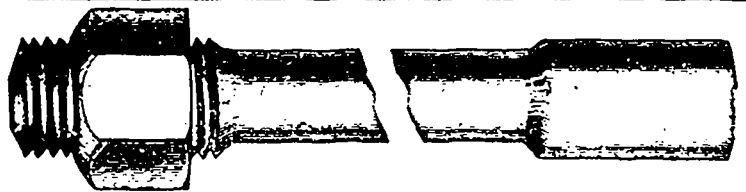
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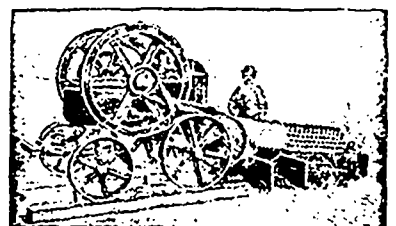
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MUNICIPAL DEPARTMENT

WATER METERS.

It is interesting to note the change in engineering thought and opinion that has taken place during the past twelve years on the question of suppressing the waste of water by the use of water meters, says Fire and Water. Time was when engineers of prominence opposed the use of meters on the ground of their possible interfering with sanitation, which, to say the least, justified the encouragement of waste of water by careless administration of local conditions of distribution. These men, however, are now the advocates of meters for use in checking that very waste of water. The educational influence of the use of a water meter has developed practical, common sense views as to what may reasonably be considered a fair per capita daily consumption of water. On this subject there is quite a diversity of opinion—one of which involves the idea of maximum and minimum rates. Chief Trautwine, of the water bureau of Philadelphia, evidently bases his views on the question upon a range of figures of daily consumption, which should be liberal and lavish at whatever cost to the city. He does not believe that restrictive measures should be adopted that would hinder the lavish use of water. On the contrary, he says it is "far better to have a gallon wasted than to discourage the proper use of a pint." He takes the position that "meters should not be applied to dwellings, except where waste of water is found to be going on"; "only water wasted should be charged by meter, not the water used." Now, the determination of the factor of waste is of variable character. Water is about the cheapest commodity sold, and it would seem that Mr. Trautwine feels that Philadelphia can afford to be liberal in the matter of establishing the *limit* or degree of waste and what shall be charged as waste. A figure of rates based upon an assumed amount of water allowed, liberal in quantity, for legitimate use, is likely to ensue in first-class cities, and all above that amount may be considered as strictly wasted. In order to reach this determination, the meter appears to be the only means of attaining a satisfactory and definite conclusion. The remaining feature of the problem would appear in what may be determined an upset price for the use of a reasonable and liberal given amount of water, determined by meter measurement, in consideration of a price paid for the privilege. In cities where all water is pumped, the disposition will set arbitrarily in the direction of greater cost and charge for use and waste of water than if it were obtained exclusively by a gravity system of a natural order. Pumping and storing water is more expensive than simply gathering and im-

pounding and distributing it by natural gravity conditions. The question of filtration is a serious one, and, if it is one of necessity, heroic measures may be adopted to prevent waste of filtered water. It may safely be asserted that no city can afford to waste filtered water without incurring an abnormally large yearly deficit, as well as falsely educating water consumers up to the idea that they may waste water without regard to the consequences attendant upon such a course. Our river and lake cities which depend upon such sources for their supply of water have been taught to believe that, inasmuch as rivers and lakes are practically inexhaustible, they can waste water as they please. Philadelphia, Chicago, and Buffalo are notable examples of this. Their pumping expenses are practically twice as great as they ought to be, simply because more than one-half of the water pumped is wasted. Nothing short of a complete well-ordered metered system, therefore, will save them from financial bankruptcy; and, indeed, there is nothing so beneficial in its influence upon the water taker as the fact that a water meter, outside of its mechanical action, is a most potent educator in the direction of stopping waste of water.

SEWER VENTILATION.

The City Engineer of Bristol has contributed the results of his researches regarding sewer ventilation summed up in an opinion that, if the drains from houses are disconnected from the sewer by intercepting traps, no emanations from the sewer can reach the house-drains unless the trap is ineffective, and if the house-drains are ventilated (presumably by having the vertical pipes open above the roof) any sewer gas going through the trap passes away through the ventilating shafts of the houses. Where sewers are properly constructed, with rapid falls, the sewage is not retained sufficiently long for decomposition to set in and no sewer gas is evolved. The question of sewer ventilation, he added, is a vexed one subject to much difference of opinion, but he does not consider that the effect produced in those places that have adopted some means of ventilation for their main sewers is sufficient to warrant interference with a system which works in a satisfactory manner. Many persons who talk of sewer ventilation do not consider that it

means, if properly carried out, thousands of openings direct from the sewer on to the surface of the streets, with other vents carried up houses, trees, or specially designed posts at the sides of the footpath, discharging their gases at the level of the bedroom windows. For every complaint made of smells from a street gully, there would be one hundred smells from the ventilators, and the state of things would be worse for the public health. The inference from this is, that ventilation of the sewers is desirable; that this ventilation through the medium of the vertical lines in house system must not be tolerated; but, where the accumulation of sewer gas forces the seal of the main drain or "intercepting trap," no harm can come of it, as the escaping or invading sewer gas is carried away above the roof, through the open pipe. What, then, is the use of the trap on the house-drain, if it does not "intercept" the sewer gas, and why have it there if no harm accrues from the fact of the sewer gas entering the house system and passing away above the roof?

An artificial stone has been invented that is a non-conductor of heat, cold, and noise. It is especially intended for roofs and floors, says an exchange. The fact that a floor can be laid in a flat that will prove a non-conductor of sound should certainly fall like a benediction on the ears of those who dwell in apartments and have been made the unwilling participants of all the sorrows and joys of their near neighbors. The so-called stone is made of purified paper pulp mixed with various other ingredients to harden it. Papyristole is the name of this thrice welcome invention, and Fr. Gehre, a civil engineer of Zurich, is the blessed inventor. The preparation is as hard as stone, but much lighter in weight. It is noiseless and inexpensive.

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The death is announced of Mr. A. D. Williams, town clerk of Uxbridge, Ont. For the past forty years he had been closely identified with the municipal and business interests of the town, being the first and only clerk the corporation ever had. The cause of his death was an attack of apoplexy.

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Shipping cull boards, stock 15 00	16 00		16 00	
Hemlock scantling and joist				
up to 16 ft..... 10 00	12 00		10 00	
Hemlock scantling and joist				
up to 18 ft..... 11 00	2 00	12 00	13 00	
Hemlock scantling and joist				
up to 20 ft..... 12 00	13 00	13 00	14 00	
Cedar for paving, per cord....	5 00		5 00	
Cedar for kerbing, 4 x 24,				
per M..... 14 00	14 00		14 00	
Scantling and joist, up to 16 ft	14 00		14 00	
" " " " 18 ft	15 00		16 00	
" " " " 20 ft	16 00		16 00	
Scantling and joist, up to 22 ft	17 00		17 00	
" " " " 24 ft	19 00		19 00	
" " " " 26 ft	20 00		21 00	
" " " " 28 ft	22 00		23 00	
" " " " 30 ft	24 00		25 00	
" " " " 32 ft	27 00		27 00	
" " " " 34 ft	29 50		29 50	
" " " " 36 ft	31 00		31 00	
" " " " 38 ft	33 00		33 00	
" " " " 44 ft	36 00		36 00	
Cutting up planks, 1 1/2 and				
thicker, dry..... 25 00	28 00	25 00	30 00	
B. M.				
1 1/2 in. flooring, dressed, F M. 34 00	36 00	28 00	37 00	
1 1/2 inch flooring, rough, B M. 18 00	22 00	18 00	22 00	
1 1/2 " " dressed, F M. 25 00	28 00	27 00	30 00	
1 1/2 " " undressed, B M. 18 00	19 00	18 00	19 00	
1 " " dressed..... 18 00	20 00	18 00	22 00	
1 " " undressed..... 12 00	15 00	12 00	15 00	
Beaded sheeting, dressed..... 20 00	35 00	22 00	35 00	
Clapboarding, dressed..... 14 00	8 00	12 00		
XXX sawn shingles, per M				
16 in..... 2 40	2 35		3 00	
XX sawn shingles..... 1 60	1 50			
Sawnlath, No. 1..... 1 75	2 00	2 50	2 60	
Cedar..... 2 90			2 90	
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	
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(Continued on Page 8.)

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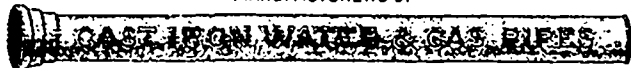
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(Continued.)

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Table listing prices for various types of red and buff bricks from Don Valley.

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Table listing prices for various types of Peerless Facing and other bricks from Beamville.

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Table listing prices for different types of bands.

STONE.

Large table listing prices for various types of stone including Common Rubble, Granite, and Freestone.

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Table listing prices for lineal foot materials.

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Table listing Ontario Lime Association members.

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Wire Lathing.

Table listing wire lathing suppliers.

Toronto. Montreal.

Table listing prices for various types of bricks and tiles in Toronto and Montreal.

HARDWARE.

Table listing prices for various types of hardware including nails, spikes, and pipes.

Iron Pipe:

Table listing prices for different types of iron pipes.

Lead Pipe:

Table listing prices for lead pipes.

Galvanized Iron:

Table listing prices for galvanized iron products.

Structural Iron:

Table listing prices for structural iron beams and plates.