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# THE 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. 11.

AUGUST 15, 1900

No. 28

THE CANADIAN CONTRACT RECORD,  
PUBLISHED EVERY WEDNESDAY

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

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



## ALTERATIONS TO TECHNICAL SCHOOL BUILDING

Separate tenders, addressed to the undersigned will be received through registered post up to noon on

**THURSDAY, THE 23RD INSTANT,**

for each of the following works and services in connection with the alterations to the building formerly known as the Athletic Club building on College Street, recently acquired by the City for the Toronto Technical School:

1. Brick Work.
2. Carpenter Work.
3. Plumbing, Heating and Ventilation.
4. Painting and Glazing.
5. Plastering.
6. Electrical Work.
7. Fire Escapes.

Plans, specifications and forms of tender may be seen and forms of tender obtained at the office of Mr. A. Frank Wickson, Architect, Room 26, Bank of Commerce Building, King Street West, on and after Monday, the 13th instant.

Tenders must be marked on the outside so as to show plainly for which of the above mentioned works they are put in. Each and every tender must be on the form supplied by architect, and be accompanied by a marked cheque equal to 2 1/2 per cent on the amount thereof, if over \$1,000, if under that amount a cheque for 5 per cent. will be required. Tenders must also bear the bona fide signatures of the party tendering and his or their sureties, and must comply in every particular with the terms of this advertisement and the specifications.

Should any party or parties whose tender is accepted fail to execute the necessary contract and give security satisfactory to the City Treasurer for the due fulfilment thereof, his or their deposit will be forfeited to the city. The deposits of unsuccessful tenderers will be returned.

The lowest or any tender not necessarily accepted.

E. A. MACDONALD (Mayor),  
Chairman Board of Control.

City Hall, Toronto, Aug. 9th, 1900.

## Glazing and Heating

Tenders for Glazing and Heating a new Church at Dublin, Ont., will be received until 5 p. m. SATURDAY, AUGUST 25TH, at the office of

MOORE & HENRY, Architects,  
London, Ont.

## TENDERS

Tenders will be received up to NOON THE 22ND AUGUST, for the supply of 40 tons of Portland Cement. Lowest (or any) tender not necessarily accepted.

C. McMILLAN,  
City Clerk.

Calgary, Alberta, August 3rd, 1900.

## TOWN OF ST. MARYS

### TENDERS FOR STEAM PLANT AND POWER HOUSE

Sealed tenders will be received by the Town Clerk, St. Marys, Ont., until

Wednesday, August 29th, 6 p. m.

for the furnishing and erecting of:

- One 150 h.p. Tandem Compound Engine.
- One 50 h.p. Single Cylinder Engine, Shafting, Clutches, Pulleys, Etc.
- Two Independent Jet Condensers.
- Two 75 h.p. Tubular Boilers.
- Boiler Feed Pump, Piping, Accessories, Etc.
- Stone Power House, 65 feet by 36 feet.

Plans and specifications may be seen at the Town Clerk's office, St. Marys, or at the office of the Consulting Engineer Toronto.

The lowest or any tender not necessarily accepted.

L. HARSTONE, Town Clerk,  
St. Marys, Ont.

RODERICK J. PARKE,  
Consulting Engineer,  
409 410 Temple Building, Toronto, Ont.

## Village of Kingsville

### TENDERS FOR GRANOLITHIC WALKS

Tenders, enclosed in a sealed envelope, accompanied by specifications, addressed to the undersigned, and marked "Tenders for Sidewalks," will be received by the Corporation of the Village of Kingsville, until noon on

**Monday, Aug. 27th, 1900,**

for constructing about 33,000 square feet, more or less, of Granolithic Sidewalk on Main Street, Division Street and Queen Street, in the Village of Kingsville. The work to be completed in one month after contract is signed.

A satisfactory guarantee required for the perfect condition of the walk for a fixed period.

An accepted cheque for 10 per cent. of the contract price, payable to the Treasurer of the Village of Kingsville, must accompany each tender as a guarantee for the fulfilment of the contract, otherwise tender will not be accepted.

This cheque will be returned in case of non-acceptance of tender.

The lowest or any tender not necessarily accepted.

W. A. SMITH,  
Clerk.

Kingsville, Aug. 9th, 1900.

## DEBENTURES FOR SALE

Tenders will be received by the undersigned up to noon on SEPTEMBER 24TH, NEXT, for \$5,000 of County of Waterloo Debentures, repayable in twenty equal annual payments of principal and interest. Copies of by-law may be had on application.

HERBERT J. BOWMAN,  
County Clerk.

Brlin, August 10th, 1900.

## TENDERS WANTED

FOR

## SEWER PIPES

Tenders will be received by the undersigned up to 12 o'clock, noon, of WEDNESDAY, THE 22ND DAY OF AUGUST, 1900, for the following Sewer Pipes:

4,750 lineal feet of 15 inch Pipe.  
4,578 " " " 8 " "  
4,500 " " " 4 " "  
150 Y Junctions, 15 in. x 4 in.  
120 Y Junctions, 8 in. x 4 in.

SPECIFICATION.

The pipes are to be of vitrified, salt-glazed clay, of the best quality, uniform in size and texture, thoroughly burned and glazed; they shall be free from cracks and flaws, and otherwise perfectly sound. The thickness of the pipes shall be one-twelfth of the inside diameter, and they must not vary more than one-half inch from a circle of the stated diameter of the pipe.

C. McMILLAN,  
City Clerk.

City Clerk's Office,  
Calgary, Alta., August 1st, 1900.



## NOTICE TO IRON BRIDGE BUILDERS

SEALED TENDERS, addressed to the undersigned, and endorsed "Tender for Iron Work of Bridges, over the Slide Channels, Ottawa," will be received at this office until THURSDAY, AUGUST 15TH NEXT, for the reconstruction of the Iron Work of the bridges across the Chaudiere slide channels of the Ottawa river, in the City of Ottawa, which were destroyed by fire in April last, a cording to plans and a specification which can be seen at the office of the Superintendent Engineer of the Ottawa-River Works, over the post office in the City of Ottawa, and at the Department of Public Works, Ottawa, after Wednesday, August 1st next.

Tenders will not be considered unless made in the manner called for by the specification and signed with the actual signature of the tenderer.

An accepted chartered bank cheque, payable to the order of the Minister of Public Works, and equal to 10 per cent. of the bulk amount of the tender, must accompany each tender. The cheque will be forfeited if the party decline to contract or fail to complete the work contracted for. It will be returned in case of non-acceptance of tender.

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

By order,  
JOS. R. ROY,  
Acting Secretary.

Department of Public Works,  
Ottawa, July 30, 1900.

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

[FOR ADDITIONAL ADVERTISEMENTS FOR TENDERS SEE NEXT PAGE.]



## NOTICE TO CONTRACTORS

# Tenders for Sidewalks

Tenders will be received, by registered post only, addressed to the Chairman of the Board of Control, City Hall, Toronto, up to noon on MONDAY, THE 20TH INST., for the following works:

### CONCRETE WALKS:

Huntley Street, east side, from Selby Street to Bloor Street  
 Eglin Avenue, north side, from Avenue Road to Bedford Road.  
 South Drive, north side, from north limit of Lot No. 1 to east limit thereof.  
 Euclid Avenue, both sides, from College Street to Ulster Street.  
 Winchester Street north side, from Parliament Street to Sumach Street.  
 Cecil Street, north side, from Henry Street to Beverley Street.  
 Borden Street, east side, from College Street to Ulster Street.  
 Spadina Road, both sides, from Lowther Avenue to Bernard Avenue.  
 Carlton Street, south side, from Parliament Street to Sackville Street.  
 Gloucester Street, south side, from Church Street to Jarvis Street.  
 Maple Avenue, both sides, from Sherbourne Street to Glen Road.  
 St. Vincent Street, east side, from Grenville Street to Grosvenor St. etc.  
 King Street, north side, from St. Paul to Sackville Street.

Conditions and specifications may be seen, and forms of tender obtained, at the office of the City Engineer on and after Wednesday, August 8th.

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

A deposit, in the form of a marked cheque payable to the order of the City Treasurer, for the sum of 2½ per cent. on the value of the work tendered for, must accompany each and every tender, otherwise they will not be entertained.

Tenders must bear the bona fide signatures of the contractor and his sureties, or they will be ruled out as informal.

Lowest or any tender not necessarily accepted.

E. A. MACDONALD (Mayor),  
 Chairman Board of Control.

City Hall, Toronto, Aug. 4th, 1900.

### CONTRACTS OPEN.

WHITBY, ONT.—W.S. Gold is about to build a cottage.

OLDS, N. W. T.—W. M. Craig wants tenders for erection of Methodist church.

WATERLOO, ONT.—The council has decided to build an iron bridge on King street.

SPARROW LAKE, ONT.—A large summer hotel may be erected here in the near future.

EDMONTON, N. W. T.—The Presbyterian church to be built here will cost \$8,000.

LANSLOWNE, ONT.—Extensive improvements to St. John's church are contemplated.

SOUTHAMPTON, ONT.—Debentures for \$3,000 for building sidewalks will be issued by the town.

PAISLEY, ONT.—The council has given notice of its intention to construct granolithic sidewalks.

HUNTSVILLE, ONT.—Geo. D. Johnston will erect a dwelling, corner Dufferin and Minerva streets.

TUSKET HILL, N. S.—A site has been selected for a new R. C. church here, to cost about \$4,000.

KAMLOOPS, B. C.—Tenders will shortly be invited for erection of government building at this place.

LINDSAY, ONT.—The council is considering ways and means of providing for waterworks extension.

HAMILTON, ONT.—No tenders were received by the Board of Works for repairs to asphalt pavement.

NORTON, N. B.—The Central Railway trestle bridge ten miles from this place gave way on the 10th inst.

WIARTON, ONT.—Arrangements have been completed for the erection of a beet sugar factory here, to cost \$20,000.

GREENWOOD, B. C.—The Standard Pyritic Smelting Co. are looking for a site here on which to build a smelter.

BRANTFORD, ONT.—G. T. R. officials have plans under consideration for a branch road from this city to Lynden.

MOUNT BRYDGES, ONT.—The Caradoc township council is about to let the contract for repairs to bridge at Clark's mill.

HUMBERSTONE, ONT.—An engineer has been instructed to prepare plans for the enlargement of the Lyons creek culvert.

GUELPH, ONT.—The Waterworks Committee have decided to increase the filtering capacity by the addition of a new filter.

STRAIFORD, ONT.—Measurements have been taken for a new bridge between this city and the township of North Easthope.

CHATHAM, N. B.—A public meeting will be held shortly to consider a project to establish a pulp mill at Morrison's Cove.

WATERVILLE, QUE.—Tenders have been invited for building a brick Congregational church. Particulars from L. Larson.

PALMERSTON, ONT.—W. T. Binning has been engaged as engineer for proposed improvements to be carried out by the town.

DARTMOUTH, N. S.—\$5,000 of town debentures will be offered for sale.—The council is about to undertake waterworks extension.

HINTONBURG, ONT.—At last council meeting the question of raising \$25,000 by debentures for waterworks extension was discussed.

BOCAVGEON, ONT.—Tenders close 20th inst. for erection of brick veneer church, from plans by W. Blackwell, architect, Peterboro.

HARRISTON, ONT.—W.D. McLennan, clerk municipality of Minto, invites offers up to 20th inst. for purchase of \$4,392.53 of drainage debentures.

ST. THOMAS, ONT.—A by-law will be submitted to the ratepayer, on September 6th to raise \$3,000 to build an addition to the Amassa Wood Hospital.

BARRIE, ONT.—The by-law authorizing the issue of \$10,000 of debentures for water-works extension was carried by the ratepayers on Saturday last.

HALIFAX, N. S.—J.E. Wood, secretary of the Exhibition Commission, is this week taking tenders for the erection of barns at the exhibition grounds.

NORTH SYDNEY, C. B.—The Nova Scotia Steel Co. will not commence the construction of their smelting plant and rolling mill here until next spring.

CALGARY, N.W.T.—S. A. Ramsay invites tenders up to 17th inst. for head-works, flumes, weir and earth dams in connection with Springbank district canal.

BELLEVILLE, ONT.—The Water Commissioners have asked the council for \$2,000 for water-works extension. It is possible that new pumps may be purchased.

CAMPBELLTON, N. B.—Willis Chipman, C.E., returned to Toronto last week, after securing the necessary information prior to submitting a report on the cost of a proposed sewerage system.

PORT HOPE, ONT.—R. E. Speakman, C. E., Canada Life Building, Toronto, is preparing plans and specifications for new pump, boiler, and water tower in connection with waterworks extension.

SHELburne, ONT.—The congregation of St. Paul's church have decided to make improvements to the building, at cost of

\$600.—The by-law to provide \$5,000 for waterworks extension was carried last week.

WOODSTOCK, ONT.—Work has been commenced on the electric railway in this town.—A site has not yet been selected for the proposed reformatory to be built in this county by the Ontario Government.

DUNDAS, ONT.—Mr. Blasdell is about to erect a double dwelling house on Main street.—A company has been formed, with a capital of \$150,000, to establish cement works here. Dr. Jamieson, M.P.P., and J.D. Morgan are interested.

ST. CATHARINES, ONT.—W. B. Allen, architect, is asking for tenders up to Thursday, 16th inst., for carpenter, joiner, tinsmith, gravel roofing and painting work on new buildings to be built for the Welland Vale Manufacturing Co.

QUEBEC, QUE.—At a meeting of the Citizens' Committee, held last week, it was decided to form a company, with a capital of \$100,000, to build the proposed theatre.—The Bellchasse Telephone Co. will extend their lines to Rimouski.

HULL, QUE.—The council has accepted the plans of Bernier & Brodeur for fire and police station, and will call for tenders immediately.—The by-law to provide \$30,000 for construction of sewers and sidewalks was carried unanimously.

FREDERICTON, N. B.—The council has decided to purchase a steam road roller.—The Department of Public Works is calling for tenders for rebuilding Gullivar bridge, Bay du Vin, Northumberland county, and Molasses Hill bridge at Upper Blackville.

LONDON, ONT.—At the annual session of the Oddfellows' Society held here last week, it was reported that \$11,000 had been subscribed to provide for an Oddfellows' Home, but that as yet a site for same had not been selected.—Tenders are invited for hospital supplies, including boiler, engine and electric supplies.

VICTORIA, B. C.—The Dominion Government invites tenders up to Monday, 20th inst., for construction of stock butts, markers butts, etc., for the proposed rifle range near this city.—Tenders for the supply of lumber required for naval purposes at Esquimalt are invited up to August 29th.

ST. JOHN, N. B.—Plans have been received here of the new rifle range to be built by the Dominion Government, on which tenders are now being taken.—The town council have granted the Dominion Government a site at Sand Point for the erection of an immigration building to cost \$5,000.

STELLARTON, N. S.—The council is considering the erection of an iron bridge at the southern end of the town.—A committee has been appointed to report as to the cost of a civic electric light plant.—An 18-stall brick engine house and a brick boiler house are to be built here by the Intercolonial Railway. Tenders close August 31st.

PEMBROKE, ONT.—Estimates have been obtained of the cost of constructing a roadway from the stone bridge to Henry street, as follows: Tar macadam, \$6,600; asphalt, \$7,500; cedar block, \$6,000; macadam, \$4,000. Granolithic sidewalks will cost \$6,000 additional. The work will likely be carried out, also the construction of several sewers.

WINNIPEG, MAN.—The question of building a morgue is being considered by the council.—Stewart Mulvey, secretary School Board, wants tenders for work to be done at Argyle and Dufferin schools; C. H. Wheeler, architect.—An additional story will be added to the Campbell block, corner James and Main streets. Tenders for same close 5 p. m. on Thursday; C.H. Wheeler, architect.

BUCKINGHAM, QUE.—Tenders for

building a postoffice at this place are invited by the Dominion Government up to 18th inst. Plans at office of Fred. Gorman, this town, and at above department. —Councillor Higginson has made a proposal to build macadam roads, granolithic sidewalks, and a system of drainage throughout the town, the money to be raised by the issue of debentures.

KINGSTON, ONT.—General H. C. Kessler, of the United States Volunteers, has purchased Bluff Island, in the Thousand Island group, and will erect a handsome cottage thereon.—The Dominion Government has been asked to dredge a portion of the harbor here.—Power & Son, architects, invite tenders up to noon of 18th inst. for the reconstruction of the Nickle Wing of the Kingston General Hospital. —A company is being formed at Syracuse, N. Y., to build a large hotel at Carleton Island. Several Canadians are said to be identified with the project.

OTTAWA, ONT.—The Public School Board will hold a meeting this week to decide as to rebuilding the schools destroyed in the fire last spring.—The Department of Public Works invites tenders up to August 31st for masonry of iron bridge over the main channel of the Ottawa river, opposite the upper slide at Rapids Des Joachims, county of Pontiac, Que. Plans at above department and on application to postmaster at Pembroke, Ont.—Tenders close this week at office of M. C. Edey, architect, for warehouse for T. Birkeitt & Son.—A. M. Calderon, architect, is taking tenders for alterations and additions to stone building, 203 Wellington street.—A petition will likely be presented to the council asking for a pavement on Elgin street, from Wellington to Queen.—J. R. Booth has purchased water lots on the north side of the Chaudiere bridges. It is reported that he will erect thereon a sash and door factory.—The city engineer is surveying Rideau street for the new macadam pavement to be laid by the Ottawa Improvement Commission.—Building permits have been granted as follows: Wm. McKnight, frame dwelling, Preston street, cost \$800; J. J. Carroll, brick veneered dwelling, Primrose avenue, cost \$1,100; John Ferguson, stone and brick addition to Grand Opera House, cost \$750; Mrs. B. O'Connor, brick veneered dwelling, Sherwood street, cost \$800; Mrs. Elizabeth Bahen, double brick veneered house, Bridge street, cost \$1,200; Samuel Cook, frame house, Preston street, cost \$800.

MONTREAL, QUE.—Two persons have submitted propositions to the city council to build a tower on the summit of Mount Royal Park, the plans for same to be prepared by a competent architect.—Saxe & Archibald, architects, have completed plans for addition to the Bellevue Hotel, corner Metcalfe and St. Catharine streets. The addition will be eight stories the ground floor to be fitted up for the Molsons Bank. The work will be commenced next spring.—Building permits have been issued as follows: J. H. Starns, brick building, 1930 Notre Dame street, cost \$4,000; A. Lamie, two three-storey brick residences, 191 and 193 McCord street, cost \$5,000; Douat Larin, two-storey brick residence, 179 Rachel street, cost \$1,300; M. Ferron, three-storey brick and stone residence, 346 St. Antoine street, cost \$4,000 (W. E. Doran, architect); Leveille & Co., alterations to a residence, 13-15 Josephat street; Estate H. B. Smith, stone building, 260 Mullin street, cost \$1,800; Estate Redpath, alterations to stone, corner St. Catharine and Drummond streets, cost \$5,000; Geo. Hogg, three-storey brick building, 393 Notre Dame street, cost \$2,000 (L. R. Montbriant, architect); Bank of Hochelaga, alterations at 95 St. James street, cost \$20,000 (A. Raza, architect).—The Merchants' Telephone Co. will extend their system to Three Rivers.—A con-

ference was held here on Saturday last regarding the proposed St. James street sewer. It is likely that the sewer will be proceeded with, and that the cost will be about \$35,000.

TORONTO, ONT.—The city council is taking estimates on the cost of an asphalt plant.—J. Bibby & Sons, manufacturers of specialties, Liverpool, England, are looking for a location in Canada on which to erect mills.—It is said that the Heinz Pickle Co. will next year erect a branch establishment in East Toronto.—The city engineer is said to be in favor of the purchase of a new 10,000-gallon pumping engine for the water works plant.—The city engineer, in his report to the Board of Works last week, recommended the construction of the following works: Pavement on track allowance on York street, between Front and Queen, cost \$10,800. Asphalt pavements—Harbord street, Bathurst to Markham, cost \$2,710; Lowther avenue, St. George to Spadina road, cost \$7,800; Manning avenue, Harbord to Bloor, cost \$10,420; Palmerston avenue, Arthur to College, cost \$13,590. Macadam pavements—Cummings street, De Grassi to Bolton, cost \$655; Farley avenue, Portland to Spadina, cost \$4,805; Isabella street, Yonge to Jarvis, cost \$9,440. Concrete walks—Bathurst street, McDonnell square to 100 feet south of Queen, cost \$1,133; Bloor street, south side, Huron to Major, cost \$1,343; Bloor street, south side, Brunswick to Bathurst, cost \$1,067; John street, east side, Richmond to Queen, cost \$202; Rose avenue, west side, Prospect to Wellesley, cost \$448; St. Vincent, Grenville to Grosvenor, cost \$517. Pearson avenue, cedar-block pavement, Sor-auren to Roncesvalles, cost \$3,040; Wellesley street, brick sidewalk, north side, Jarvis to 24 feet east of Church, cost \$563; Waverley road, extension of water main from present terminus to 900 feet south, cost \$900; four foot main on Treford place, cost \$300; six-inch main on Frichot street, cost \$487.—Building permits have been granted as follows: Rolph, Smith & Co., addition to warehouse, 49 Wellington street west, cost \$2,700; A. Uxworthy, pair, semi-detached dwellings, Jamieson avenue, cost \$2,000; Separate School Board, two story brick and stone school on Edwin avenue, near Royce avenue, cost \$8,000; Toronto Electric Light Co., brick work shop on the Esplanade, foot of Scott street, cost \$10,000.—The Board of Control have adopted the recommendation to purchase a lot on Queen street for the enlargement of the Cowan avenue fire hall.

#### FIRES.

Sash and door factory of J. Briggs & Son, at Brockville, Ont.; loss \$2,000.—The Chouinard building on Dathousie street, Quebec; loss on building, \$20,000.—Warehouses in Winnipeg owned by Bulman Bros., lithographers.—Saw mill of W. & D. Bailie at Aylmer, Que.; loss \$22,000.—Early's feed stables and McFarlane's flour store on Princess street, Winnipeg; loss \$5,000.

#### CONTRACTS AWARDED.

HESPELER, ONT.—\$10,000 debentures: J. D. Ramsay, purchaser, at \$10,053. WATERLOO, ONT.—John street sewer: E. Dermil, successful tenderer, at \$532 95. PENETANGUISHENE, ONT.—Stables on the driving park: N. Payette, contractor. PICTON, ONT.—New post office: Robert Cameron, of Almonte, successful tenderer. WINDSOR, ONT.—Drill hall: Sullivan & Laughton, of Kingston, successful tenderers. AMHERSTBURG, ONT.—Dalhousie street sewer: Chick & Carnaghi, of Windsor, contractors.

HULL, QUE.—Heating apparatus for school building. McKinley & Northwood, successful tenderers, at \$1,179.

SYDNEY, C. B.—New academy building: Schurman, Lefursey, Clark & Co., this town, successful tenderers, at \$24,965.

WINCHESTER, ONT.—The council has purchased a Sawyer-Massey stone crusher, at cost of \$1,000, including elevator.

GUELPH, ONT.—Steel bridge on town line near Mount Forest. Superstructure, Stratford Bridge Co., masonry, D. Bear, of Doon.

GRAVENHURST, ONT.—Building town hall: F. S. Hurlburt, successful tenderer, price \$5,525; J. F. Brown, of Toronto, architect.

QUEBEC, QUE.—The contract for a portion of the new Quebec and Lake St. John railway has been let to John D. Cameron, this city.

HAMILTON, ONT.—The contract for supply of curbing to the city has been let to R. Simpson, of Waterdown, and John D. Blackwell, of Milton.

HALIFAX, N.S.—The contract for repairing the damaged steamer Turret Bell has been let to S. M. Brookfield, at price in the vicinity of \$50,000.

BROCKVILLE, ONT.—The contract for seats for the George street Methodist church has been let to the Globe Furniture Co., of Walkerville.

VICTORIA, B.C.—Building for Robert Porter. John Couzhan, successful tenderer.—Building for Todd Estate: Elford & Smith, contractors, price \$23,140.

WINNIPEG, MAN.—The tender of the Toronto Furnace & Crematory Co. has been accepted by the city for a crematory, including buildings, at \$11,290.—The tender of the The Assyrian Co. has been accepted for the supply of 200 tons of asphalt.

STRATFORD, ONT.—Steel bridge and iron sewer tile: Stratford Bridge Co., successful tenderer, at \$832. Abutments: Mr. McDonald, \$7 85 per cubic yard.—The tender of Wm. Ireland for granolithic walks, at 12½ cents per square foot, has been accepted.

Architects and engineers will be interested in knowing that you are submitting a tender as the result of the advertisement for tenders placed in the CONTRACT RECORD. Mention the fact.

The Maritime Hardware Association held its second annual meeting at Digby on the 27th ult., and elected the following officers: President, A.M. Bell, Halifax; vice-president, Thomas McAvity, St. John; executive, S. Hayward, P. McMichael, W. Kerr, all of St. John, and E. G. Stairs, W. G. Robertson and W. E. Brine, of Halifax.

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**TREATMENT OF LIME.**

Lime ought to be, to the painter, a universal material, and yet many don't know how to handle it, and to use it in the proper place, says Ald. Korbler, in our Vienna contemporary, the Dekorator.

Lime is especially useful for facades, churches, gateways, open halls and verandas, and particularly on damp walls. In all these places size paint would not be suitable, as the size would quickly putrify, owing to the influence of changes of temperature and dampness, thus losing its building power, while the permanency of the lime is enhanced by the action of the oxygen in the air. Especial durability is obtained by roughening old walls with coarse pumice stone before painting, subsequently washing off the walls, or at least removing the dust. Peeling of lime coating is due to too thick an application or putting on a fresh coat before the first is dry.

In order to enhance the durability of the lime various binders may be added to it, as follows: If more earth colors are to be added to the lime than it is capable of binding caseine size should be employed. The caseine is rubbed up, together with milk water, with unslaked lime and thinned with milk. In Switzerland lime slaked with caseine water is used, thinned with milk, and the durability is excellent. Frequently kitchen salt or rock salt is also added, but this is only advisable for white work, as the salt some-

times effloresces, and the colored coating shows white spots after a few weeks.

Varnish and linseed oil also contribute largely to increase the permanency of the lime, but it is best to add these binding agents during the slaking.

Blood is likewise a good binding material. It must be allowed to stand a few days, after hot water has been poured on it. Before use it has to be stirred up and well sifted. Besides, it is necessary to add, on account of foul odor, one kilo (two and one-fourth pounds) of boric acid to every one hundred kilos (two hundred and twenty-five pounds) of lime for disinfecting purposes.

Green vitriol imparts to lime a yellow color similar to ochre; copper sulphate in lime gives a handsome blue green; green vitriol, copper sulphate and lime give a nice sap-green; and to obtain a fine blue take a sulphuric solution of cobalt. Such coatings adhere excellently to damp walls as the substances admixed are much better than earth colors. At the same time they are much cheaper, for one kilo (two and one-half pounds) of vitriol is sufficient for a room of considerable size.

All these chemical coloring substances are dissolved, if to be used at once, in hot

water, but the solution can also be made with cold water if one waits a few hours. It still deserves mention that these vitriols are not injurious to the skin, the floors or the brushes, that they are not caustic and do not burn.

For smoky cafe ceilings it is well to force the thick lime, to dilute with water and to spread out rather compact. But green vitriol is also a medium for such ceilings. Coat the ceiling previously with lime and green vitriol, let this dry thoroughly, and only then coat with strong soap. It will be found that green vitriol will appear olive green in the receptacle and draws together into a thick paste. This should not cause one any misgivings; it can, after all, be flowed on like thin paint, and turns a handsome ochre yellow.

By some experiments with the above chemicals in the employment of the quantity, the necessary experience in mixing and tinting will soon be required.—Scientific American.

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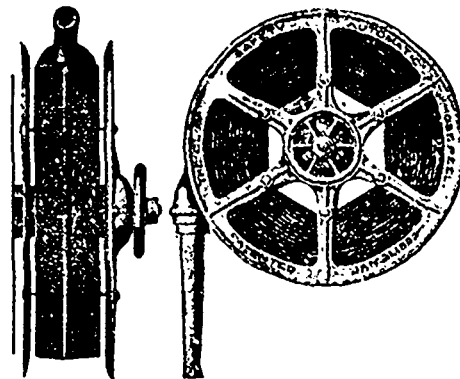
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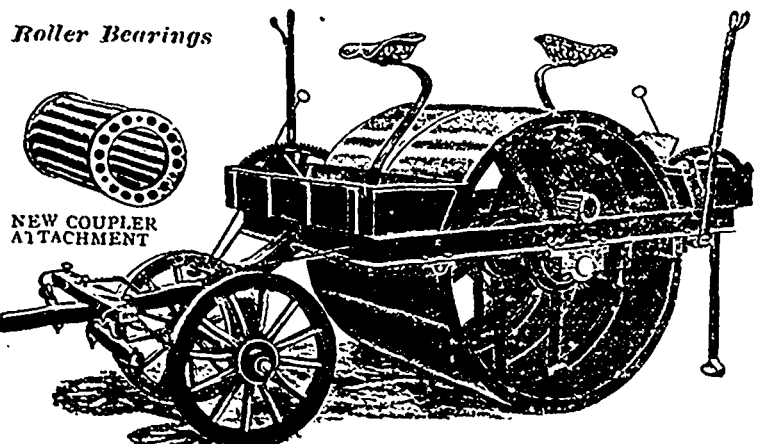
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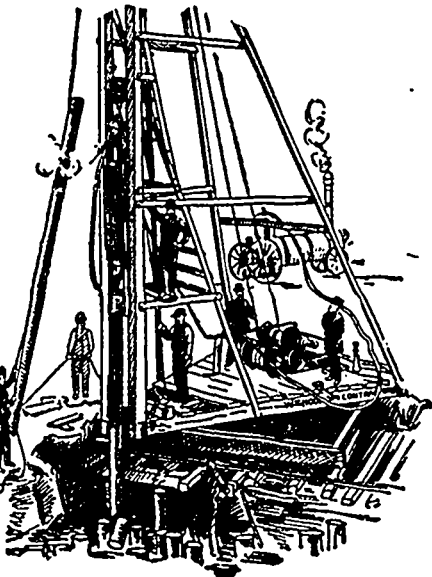
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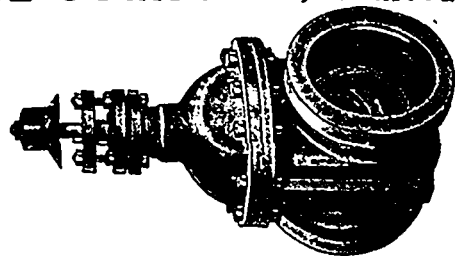
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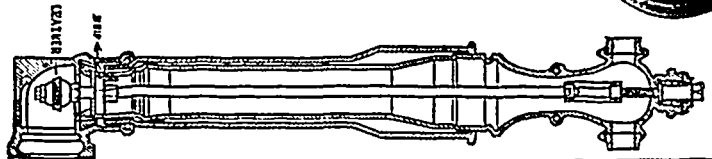
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# MUNICIPAL DEPARTMENT

## CRACKS IN STREET ASPHALT.

By DANIEL B. LUTEN,  
Instructor in Civil Engineering, Purdue University.

(Continued from last issue.)

It is unfortunate, too, that this defect of cracking occurs in the only one of the pavements that is liable to serious injury thereby; the cracks, of course, provide a ready means of access for water into the surface layer of the pavement, and its escape by evaporation is retarded. An experiment to illustrate the effect of water upon sheet asphalt follows:—

A piece of sheet asphalt weighing 4¾ oz. was taken from the surface layer of one of the above pavements and immersed in water for 15 days; for purposes of comparison, a piece of asphalt block of about the same size and weighing 5 oz. was subjected to the same conditions. At the end of 15 days, both samples were broken down as far as possible by pressure of the bare fingers, rubbing off all loose and disintegrated material.

They were then returned to the water for 15 days more, and the operation of rubbing repeated. This was continued up to 60 days, when the sheet asphalt was totally disintegrated, while the asphalt block had lost but 3.6 per cent.

The losses for the different periods were as follows:—

	Asphalt Block	Sheet Asphalt.
15 days.....	0.1 per cent.	1.9 per cent.
30 days.....	0.3 per cent.	15.1 per cent.
45 days.....	1.7 per cent.	37.0 per cent.
60 days.....	3.9 per cent.	100.0 per cent.

Mr. A. W. Dow, inspector of asphalts and cements for the city of Washington, writing on "Failures of Asphalt Pavements" in the annual report of the Engineer Commissioner of the District of Columbia, gives the impression that the use of proper materials in an asphalt pavement will so soften the pavement as to prevent cracking, without making it so soft as to roll or crowd.

In this connection the following peculiarity of a Lafayette pavement will be of interest:

The sheet asphalt pavement on Columbia street, from Third to Fourth, was laid in August, 1899. Early in October following depressions had formed on the crown of the street, presumably by rolling or crowding, holding water to such an extent that the city engineer suggested repairs. They were promptly made, seven patches of from 1 to 5 sq. yd. each being applied.

Early in November following another depression had formed adjacent to one of the larger patches, and was repaired No-

vember 7th. On December 31st this pavement cracked from one gutter to the other, the crack passing within a few feet of one of the October repairs.

## TREATMENT OF SEWAGE.

A novelty in sewage treatment has been recommended for Chester, England, by Major H. Tulloch, late engineer in chief to the local government board. The volume of dry-weather sewage to be treated is about 1,250,000 imperial gallons. It is pumped from a screening well at the end of an outfall sewer into a channel along eight precipitation tanks holding about 68,000 gallons each. The clarified effluent from these is run through eight roughing filters having a total area of 888 square yards, and then passes to circular aerobic polarite filters 50 feet in diameter and having a combined area of 3,500 square yards. Before passing to these the sewage is collected in a small chamber from which, when a certain height has been reached by the surface of the liquid, the latter is discharged over the filtering bed. The chamber holds enough sewage to flood the filter to a depth of 2½ to 3 inches, and is emptied automatically. The filters are placed in two tiers, and double filtration is thus possible. The

effluent from the upper tier drives a small turbine and fan which draws the carbonic acid gas from the bottom of the filters, allowing air to enter freely the pores of the lower part of the bed.

## LEGAL DECISIONS AFFECTING MUNICIPALITIES.

With regard to obstructions on or over highways, the following case, Huffman vs. township of Bayham, may be cited, in which the plaintiff secured \$1,500 damages.

The Court of Appeal's report was as follows:

"A milkstand built on a highway by or adjoining property and projecting slightly over the travelled way is such an obstruction to the highway as to constitute want of repair within the meaning of the Municipal Act, and where such an obstruction was shown to have existed for three years and the municipal corporation having jurisdiction over the road in question had taken no steps to have it removed, they were held liable in damages for an accident caused by it."

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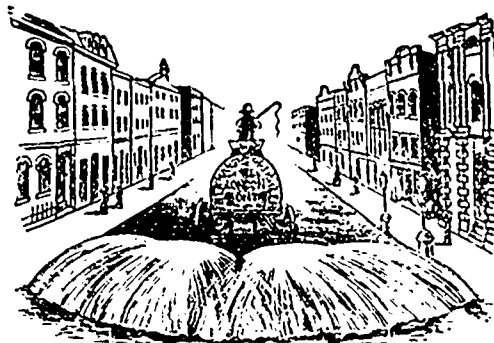
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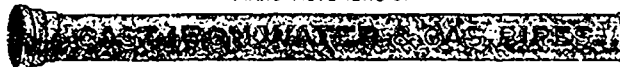
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