

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. 12.

NOVEMBER 13, 1901

No. 41

THE CANADIAN CONTRACT RECORD,

PUBLISHED EVERY WEDNESDAY

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C. H. MORTIMER PUBLISHING COMPANY
of Toronto, Limited,

CONFESSION LIFE BUILDING, TORONTO
Telephone 2352.

Branch Office:
Imperial Building, Montreal.

CLERK OF WORKS.

Clerk of works required, experienced men only. Apply in writing before noon Thursday 14th, to
CANADIAN ARCHITECT.

TO CONTRACTORS

Tenders will be received by the undersigned up to 23rd inst. for the erection of a Roman Catholic Church in the village of Merrickville, Ont. Plans and specifications may be seen at my residence at Merrickville, or at the office of Thomas Hanley, Architect, Belleville. No tender necessarily accepted.

REV. A. CARSON.

TO CONTRACTORS

Separate or bulk tenders, addressed to the undersigned, will be received up till noon Friday, November 23rd, for the several trades required in the erection of a Four Storey Brick and Stone Dry Goods Store 62 x 129 feet, for Joseph Mickleborough, in St. Thomas, Ont.

Plans and specifications may be seen and all information obtained at the office of N. K. Darrach, St. Thomas, Ont. and after Wednesday, Nov. 13th. The lowest nor any tender not necessarily accepted.

NEIL R. DARRACH,
ARCHITECT

PUMPS AND WATER WHEELS FOR SALE

1 right and 1 left hand 45 inch Jiffel Water Wheels.
2 No 6 Rotary Pumps with large air chamber shafting, gearing and boxes complete
1 large Escape Valve and connecting pipes, &c.
The above are in good condition and will be sold cheap. For further particulars apply to
J. W. SANDERS,
own Clerk.

Port Hope, 25th Sept., 1901.

NOTICE

TO PLUMBING, HEATING AND VENTILATING CONTRACTORS.

Sealed tenders will be received at the offices of the undersigned up to noon of Wednesday the 27th November, 1901, for the plumbing, heating and ventilation of a building for the Bank of Montreal, Montreal, P. Q.

Each tender must be accompanied by an accepted cheque made payable to the Bank of Montreal for not less than 5 per cent. of amount of tender, which will be returned to unsuccessful tenderers, but that of the accepted tenderer will be retained until the satisfactory completion of the work, and will be forfeited in case of failure on the part of accepted contractor to enter into a contract with approved sureties.

Plans and specifications can be seen and all particulars obtained at the offices of
ANDREW T. TAYLOR,
(Taylor & Gordon)
ARCHITECT.

43 St. Francois Xavier St., Montreal.
It is not guaranteed that the lowest or any tender will be accepted.

CONTRACTS OPEN.

NIAGARA FALLS SOUTH, ONT.—George Brundage intends building a residence.

ANTRIM, ONT.—Improvements are to be made to St. John's church, at a cost of \$2,500.

VICTORIA, B. C.—Thomas Hooper, architect, is calling for tenders for the Sailors' and Soldiers' Home.

BRIDGEBURG, ONT.—The question of constructing a waterworks system is still under consideration.

TAVISTOCK, ONT.—J. N. Roth has purchased property on DeCew street on which he will build several houses.

NEWCASTLE, N. B.—Several gentlemen are negotiating for a site on which to build a saw mill and box factory.

SUSSEX, N. B.—William Murdock, C.E., of St. John, has been engaged to report on a water supply for this village.

MALLORYTOWN, ONT.—John Mallory, whose residence was burned last street, has decided to rebuild immediately.

MILDMAY, ONT.—The ratepayers have subscribed about \$15,000 for the erection of a chair factory in this village.

AMHERST, N. S.—A public meeting will be held on the 27th inst. to consider the building of a poor house and hospital.

OTTAWA EAST, ONT.—It has been decided that work on the new Catholic church will not be commenced until next spring.

BRANTFORD, ONT.—The council has been authorized by the Ontario Government to issue \$50,000 worth of debentures.

ST. CATHARINES, ONT.—William E. Hudson will erect two dwelling houses on the site of the old Farmers' Hotel on Mary street.

PENETANGUISHENE, ONT.—A. Tessier has in contemplation the enlargement of his sash and door factory and planing mill.

LETHBRIDGE, N. W. T.—It is announced that a couple of Winnipeg gentlemen will erect summer residences here next season.

COLLINGWOOD, ONT.—Fred T. Hadyson, architect, is preparing plans for double tenement house to be built on St. Paul street by Arthur Court.

HALIFAX, N. S.—The town engineer has been instructed to proceed at once with surveys and estimates for a waterworks system for the town.

RAT PORTAGE, ONT.—An English company has been formed and the necessary capital subscribed to build a large flour mill on Tunnell Island.

KEMPTVILLE, ONT.—T. K. Allen, municipal clerk, invites tenders up to the 20th inst. for the purchase of \$1,700 ten year 4 per cent. debentures.

ST. FRANCOIS DU LAC, QUE.—The St. Laurent Telephone Co. has been

organized here, with capital of \$15,000. J. Allard, M.P.P., is interested.

GODERICH, ONT.—The Goderich Lumber Company is negotiating for a site on which to erect a large saw mill in Kettel, just across the bay from Warton.

WOODSTOCK, N. B.—It is said that the Woodburn grist mill, which was burned recently, will be rebuilt. Ald. J. H. Nebe and Louis Suitter are interested.

PEMBROKE, ONT.—Tenders close 16th inst. for purchase of \$18,000 4 per cent. debentures. Particulars from T. M. Skinner, Chairman Finance Committee.

BANFF, N. W. T.—The C.P.R. are having plans prepared for a large addition to their hotel at Banff's Springs. It is said that there will be about 90 extra rooms, and that work will be commenced next spring.

SYDNEY, N. S.—A new pumping station is to be built, at a cost of \$15,000.—J. B. Johnston, of the Acme Bicycle Co., has purchased a lot on Bentinck street on which he purposes to erect a two storey brick building.

KINGSTON, ONT.—Since the defeat by the county of the by-law to grant \$20,000 to Queen's University the students have taken the matter up and propose to erect a memorial hall as a tribute to Principal Grant.

QUEBEC, QUE.—The civic waterworks committee have decided to expend about \$100,000 in improving the water supply.—H. Staveley, architect has prepared plans for a new fire station in Montcalm ward, to cost \$10,000.

SARNIA, ONT.—A deputation from this vicinity has asked the Minister of Public Works to dredge the St. Clair river, opposite Point Edward.—The question of reconstructing the waterworks system is receiving the consideration of the council.

CHATHAM, ONT.—A deputation from this vicinity has requested the Minister of Militia to build an armoury here, at an approximate cost of \$25,000.—J. L. Wilson & Son, architects, have been instructed to prepare plans for alterations to William Gordon's store front.

NIAGARA FALLS, ONT.—A by-law to raise \$10,000 for a waterworks pump has already been prepared for submission to the ratepayers, and Ald. Hann has given notice of a by-law to raise \$7,000 to repair the reservoir.

NEW WESTMINSTER, B. C.—The Vancouver Power Co., represented by T. Buntzen, has concluded arrangements with the civic authorities here whereby work may be commenced on the development of the power at Coquitlam Lake.

ST. THOMAS, ONT.—N. R. Darrach, architect is preparing plans for a new factory for Thomas Bros.—Mr. Darrach is also taking tenders for erection of a four storey brick and stone drygoods store.—Joseph Mickleborough.

GUELPH, ONT.—Morlock Bros. are considering the building of a large addition to their factory.

FRASERVILLE, QUE.—The Gaspé & Western Railway Co. is seeking incorporation, to construct a railway from this place to Gaspé Basin.

PARRY SOUND, ONT.—A permit has been granted to the Bank of Ottawa for the erection of a brick building on corner of James and Seguin streets.

LINDSAY, ONT.—Work is about to be commenced on the new fire hall, A. Robinson having the contract for excavating.—J. B. Knowlson is about to erect a brick building immediately south of the town clerk's office.

INGERSOLL, ONT.—The Quarterly Board of the King street Methodist church have appointed a committee to arrange for the purchase of a new pipe organ, for which \$2,200 has been subscribed. W. A. Sudworth and George Duncan are members of the committee.

HULL, QUE.—It is reported that capitalists are forming a company for the erection of a brewery in this city.—The city council has appointed a committee to dispose of \$198,000 corporation debentures.—It has been decided to build a balcony round the council chamber in the new city hall, at a cost of \$950.

NORTH SYDNEY, N.S.—The Nova Scotia Steel & Coal Co. are preparing to erect a shipping pier here, to be 14,000 feet in length and to cost about \$120,000. The material required will include 850,000 feet of hard pine, 21,000 lineal feet of creosoted piling, 300,000 feet of spruce planking and 45,000 tons of iron.

PERTH, ONT.—The Reeves of the different townships of the county will confer with the county council on the 20th inst. regarding the scheme proposed by J. M. Rogers for the construction of permanent roadways throughout the county. The suggestion is that the county borrow \$95,000, and with the \$125,000 build 100 miles of permanent roadways.

PETERBOROUGH, ONT.—The Peterborough Canoe Company are about to build an addition to their factory, 24x44 feet.—The Peterborough Hydraulic Company are seeking a controlling interest in the Peterborough Light & Power Company, with the object of putting more capital into the concern and developing their water power.

MONCTON, N.B.—The annual meeting of the New Brunswick Petroleum Company was held here last week, when it was decided to carry on operations on a more extensive scale, to purchase their own machinery for boring, and to erect at once a central pumping station and tanks.

VANCOUVER, B.C.—The A. MacDonald Co. is about to build a three storey brick block in this city to accommodate their wholesale business.—A new general hospital is to be built in this city.—Premier Dunsmuir has offered to give a free site for a club building to the Lady-smith Athletic Club, of which T. L. Grahame is president.

ST. JOHN, N. B.—The Dominion Government will again be petitioned by the city council to build a new drill hall in this city.—T. S. Simms & Co. have acquired property on Union street and propose to build a large brick factory.—A resolution has been passed by the city council that a committee be appointed to consider the feasibility and expense of building a bridge across the harbor connecting the east and west sides.

BROCKVILLE, ONT.—The light commissioners have decided to submit a by-law to the ratepayers to raise the sum of \$25,000 for improvements to the gas and electric light plants. The money re-

quired includes \$9,500 for two new dynamos, \$3,000 for switchboard and changing arc lamp system, \$1,000 for transformers, \$3,300 for street lamps, and \$5,000 for meters.—J. A. Johnstone has purchased property on George street on which to build a large carriage shop and warehouse this fall and a residence adjoining next spring.

HALIFAX, N. S.—It is announced that the naval authorities contemplate making extensive improvements to the dockyard. It is expected that the first work to be undertaken will be a new naval hospital and the construction of an immense pier, to be of concrete and stone and to cost upwards of \$120,000. Other buildings contemplated include a brick and stone victualling building and new officers' quarters buildings. The bricklayers, carpenters and other trades unions of this city have been asked by the dockyard authorities to furnish a scale of wages for next season.

MONTREAL, QUE.—It is understood that a committee will shortly be appointed by the Montreal Stock Exchange to report on the subject of erecting a new building.—The council has given notice of its intention to construct sewers on the following streets: Harbour street, between Ontario and Forsyth streets. St. Hubert street, between Belanger and north limits. Massue street, between Guilford street and Laurier avenue.—It is estimated that the cost of laying conduits in this city for electric wires would be about \$7,500,000.—It is expected that the governors of Notre Dame Hospital will purchase a portion of Lafontaine Park as a site for the proposed new building.—A. T. Taylor, architect, has been commissioned to prepare plans for a new maternity hospital to be built on Durocher street, to cost about \$40,000. It is not likely that work will be commenced this year.—Building permits have been granted as follows: L. Dupont, two storey house, Dufresne street, cost \$1,100 (L. Dupont, contractor); A. Maynard, three storey house, Alvin street, cost \$2,000 (A. Maynard, contractor); W. Champagne, three storey house, St. Hubert street, cost \$6,000 (A. St. Louis, architect, Boucher & Huberdean, contractors); F. W. Molson, five storey wall paper factory, cost \$20,000 (R. Findlay, architect, George Roberts, contractor); A. Fayette, two storey house, Joliette street, cost \$1,500; H. A. Gathrei, three storey factory, 67 Amherst street, cost \$1,000 (J. S. Jacques, contractor).

WINNIPEG, MAN.—It is announced that the C. P. R. will build a line of railway from Saskatoon west.—The city has given notice of its intention to construct the following works: Granolithic walk on north side St. Mary avenue, from Main street to Hartgrave street, cost \$1,700; sewers on Sherbrooke street, from Notre Dame avenue to Sargeant avenue, cost \$3,050; on River street, from Syndicate to Rachael street, cost \$1,425; on M. Micken street, from Notre Dame avenue to Sargeant avenue, cost \$2,770; on Jarvis

avenue, from Charles street to Kingstreet, cost \$2,360; on Langside street, from Ellice avenue to Notre Dame avenue, cost \$5,398; on Maryland street, from Ellice avenue to Portage avenue, cost \$3,340; macadam pavement on Pembina street, from Corydor to Arnold avenue, cost \$11,350; asphalt pavement on Main street, from Douglas avenue to Aberdeen avenue, with sewer connections, cost \$131,622.—A by law has been carried in council to submit a by-law to the ratepayers to raise \$50,000 to build suburban fire halls, to put stone foundations under the north and south fire halls, and to purchase a new dynamo for the electric light plant.—W. Burnes, C. E., is about to locate a line of railway for the C. P. R. from Willow Creek to Prince Albert.—Tenders are wanted by the city clerk up to 14th inst. for construction of asphalt pavement on portion of Main street, macadam pavement on Pembina street, and sewers on portions of Wellington Crescent, River street and Sherbrooke street.—Walter Suckling & Co. have sold their James street property to an eastern manufacturing company, who will build a three storey warehouse thereon next spring.

OTTAWA, ONT.—Newton J. Ker, city engineer, is taking tenders up to noon to-day (Wedne-day) for construction of pipe sewers on Bell street, from Gladstone avenue to C. A. Railway, and on Cambridge street, from Gladstone avenue to Christie street.—A sub-committee of the city council has been appointed to wait upon the Minister of Public Works with a view to obtaining a grant towards the purchase of a fire steamer and water tower. These will cost about \$13,000.—The Department of Railways and Canals is calling for tenders for the construction of the Dominion Observatory, to be located near the Experimental Farm. The building will be 120 x 60 feet, of Nepean sandstone and Credit Valley facing, two storeys and basement.—Tenders are invited by F. Gelinis, Secretary Department of Public Works, up to Tuesday, December 31d, for the supply of telegraph poles for a line from Albert to Clayoquet, a distance of 75 miles, also for the construction of the above telegraph line. Specifications at the above Department and at the office of William Henderson, Clerk of Works, Victoria, B. C.—The question of a site for the proposed public library is now engaging the attention of citizens.—Building permits have recently been granted as follows: P. J. Belanger, four tenements, Besserer street, cost \$3,800; D. O'Connor, jr., six brick veneered dwellings, Archibald street, cost \$4,800. Mrs. Catherine Murphy, brick veneered dwelling, Nelson street, cost \$2,000. D. O'Connor, jr., two brick shops, Cambridge street, cost \$4,000. John Shearer, jr., frame dwelling, Bank street, cost \$800. Lefebvre Champagne, brick veneered dwelling, Clarence street, cost \$1,500. Hugh Conn, solid brick dwelling, Alice street, cost \$3,000. Mrs. Elizabeth Simons, brick dwelling, Preston street, cost \$800. Enoch Sharpe, brick veneered building, Lyon street, cost \$1,000. George

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TORONTO MONTREAL ST. JOHN HALIFAX

Ross, brick veneered dwelling, Rochester street, cost \$1,200. Daniel Fogarty, brick veneered dwellings, Lloyd street, cost \$3,000.—The trustees of the Bell street Methodist church have decided to erect a new parsonage.

TORONTO, ONT. — Tenders are wanted at the city hall by noon on Wednesday, 20th inst., for about 300 squares of felt and gravel roofing for the Cattle Market and Cattle Market Annex.—It is proposed to build an addition to Grace hospital, to be used as an operating room.—Mr. Wm. Crich'on, of Messrs. Buntin, Reid & Co, has purchased a lot on Smith street on which to erect a residence next spring.—Tenders are wanted at 66 Close avenue for brick and stone work, excavating and drain.—A site has been selected at the corner of Arthur and Grace streets on which to build the proposed Catholic church for the west end. Rev. Father William McCann will take charge of the church.—The directors of the new palace hotel on King street are considering a proposition to make the building two storeys higher than provided for by the original plan.—Tenders are wanted immediately at 32 Collier street for a new residence.—The Mayor has received from the Canada National Railway & Transport Company a plan of their proposed railway and steamship terminus in this city. The company wants about 150 acres of land east of the Don.—It is understood that A. Ansley, of the firm of Gellispie, Ansley & Co., Wellington street west, has purchased the old Hunt Club property in Eglington and will build a residence thereon.—C. F. Garden has recently purchased a lot 50 x 192 feet on the west side of St. George street.—Tenders are asked by the Board of Control up to 20th inst. for construction of a sewer on Russet avenue, from Bloor street to north end.—Building permits have been granted as follows: Charles Norris, residence at 106 Crescent Road, cost \$3,500; J. C. Reed, dwelling on Markham street, near Arthur, cost \$3,000; A. McMordie, residence on Gladstone avenue, near Bloor street, cost \$2,000; Fred Dane, residence on Murray street, near Orde, cost \$3,000; William Clarke, pair of brick dwellings on Shaw street, cost \$2,300; Robert Corbett, dwelling on Brock avenue, near Moor street, cost \$1,000; Trust and Loan Co. of Canada, residence, 210 Jarvis street, cost \$10,000; Charles E. Burns, residence on Queen's avenue, cost \$5,000; Pinkerton Fry, pair dwellings on Shaw street, near Queen, cost \$4,000; F. P. Solomon, dwelling at 328 Rusholme road, cost \$1,000; G. H. Parker, residence on North Drive, Rosedale, cost \$3,500; I. W. Rea, residence on Crescent road, near Yonge street, cost \$4,000; York County Loan and Savings Co., three residences on Lucas street, cost \$6,000; William Wakeheld, residence on Brunswick avenue, near Bloor street, cost \$3,500.

FIRES.

Factory of the Cumberland Furniture Co. at Oxford, N. S.; loss \$20,000, no insurance.—Fire at Thornbury, Ont., last week destroyed Fleming's wagon and paint shop, Carscadden's building and Smith's marble works.—Eight residences in Vaudreuil, Que., were burned last week, the losers being J. Charlebois, E. Leroux, A. Brasseur, J. Marlow, H. Marlow, G. Aquin, A. Sherre and J. Saboutin.—Factory at Carberry, Man., owned by the Jones, Stacker Co., loss \$5,000.—Grain elevator of William Kerns & Co. at Burlington, Ont., loss \$10,000, mostly on contents.—Canadian Northern station at Mariapolis, Mar.—Twenty-five buildings in the town of Pugwash, N. S., were burned on Sunday last at a loss of about \$50,000.—Some of the losers are: Elliott & Co., Maurice Walsh, Dr. Dakin,

Alex. Hollis, Cumberland Railway and Coal Co. and Herbert Reid.—Grand View Hotel at Banff, N. W. T., loss partially covered by insurance.—McDonald Hotel at Dawson, in the Yukon district, damaged to extent of \$20,000.

CONTRACTS AWARDED.

PICTON, ONT. — The contract for fittings in the post office here has been let to Robert Cameron, of Almonte.

BRACEBRIDGE, ONT. — Brown Bros. have secured the contract for building a Methodist parsonage in the township of Gibson.

PORT LAMPTON, ONT. — Fred McDonald has given a contract to Geo. Meredith to erect a three storey brick building, 24 x 36 feet.

BROADHAGEN, ONT. — The contract for constructing the McNaught drain, in Logan township, has been let to John A. Nicholson for \$2,573.

VICTORIA, B.C. — George Snider has secured the contract for a new brick block for E. G. Prior & Co., to be three storeys and basement, 60 x 60 feet, cost \$9,000.

BLENHEIM, ONT. — The Township Council of Harwick has let the contract for a steel pile trestle bridge 75 feet long to the Canada Supply Company, of Windsor.

PETERBOROUGH, ONT. — James Bogue has been awarded the contract for the foundations of the 500,000 bushel elevator to be built by the Quaker Oats Co.

WOODSTOCK, N.B. — It is reported that a New York company has been given the contract to build the Woodstock and Centreville railway, work to commence not later than April next and the whole to be completed within eighteen months thereafter.

TILSONBURG, ONT. — Dart & Hamilton have just signed a contract with the Tilsonburg, Lake Erie & Pacific Railroad Co. to construct the steel work and do the ballasting required between Tilsonburg and Ingersoll.

MIDLAND, ONT. — The tender of H. J. Craig, representing the Central Canada Loan & Savings Co., has been accepted for purchase of \$60,000 waterworks debentures. The tenders received were as follows: H. J. Craig, \$60,405; Hanson Bros., Montreal, \$60,306; H. O'Hara & Co., Toronto, \$58,905; G. Stimson, Toronto, \$60,502.

ROSSLAND, B.C. — G. Creelman has given the contract to build the C. R. station, round house, freight sheds, section house at Lardo. — L. A. Campbell has secured the contract to construct pole line from Cascade to Phoenix for Cascade Power & Light Co. John Campbell will construct the headworks and powerhouse for the company. The above will cost about \$50,000.

LONDON, ONT. — Herbert Matthews, architect, has let contracts as follows for a residence on Princess avenue for J. H. Daxell: Masonry and brickwork, Thomas W. Copp; carpenter and joiner work, L. H. Martyn; painting and glazing, W. S. Lockhart; lath and plastering, Robert Gash.—Same architect has accepted the following tenders for factory on Dundas street east for C. Somerville: Mason and brick work, Wm. Hayman & Son; carpenter and joiner work, L. H. Martyn; painting and glazing, A. H. Coke; sheet and metal work, Wm. Wyatt & Son; cement floor, B. V. Hole; felt and gravel roof, G. Roughly; plumbing, James Greenwell.

REAL ESTATE TRANSFERS.

The following transfers of vacant property in Toronto have been recorded since last issue:

CALLENDER ST., e.s., Thos. Murray to Ida G. Keachie, 45x113, being lot 20, and south 20 feet, lot 21, plan 3, assessed at \$676.

TIVERTON AVE., w.s., Elizabeth Mitchell to F. J. Smith, 60x100, being lots 33 and 38, plan 791, assessed at \$360; also east side, 60x100, being lots 11 and plan 791, assessed at \$360, also SOUTH AVE., n.s., 200x100, being lots 45 to inclusive, plan 791, assessed at \$1,000 total assessment of parcel, \$1,720.

SMITH ST., s.s., John T. Hutson to E. Lugsdin, 17-7x149, being part of lot plan 373, assessed at \$69.

BRUNSWICK AVE., w.s., James Armstrong, et al, to Henry F. Squires, 30x being south part of lot 201, plan 6, assessed at \$552.

SPENCER AVE., w.s., Farmers' Loan & Savings Co. to Thos. McIlwain, 45x100, being south part of lot 96, plan 431, assessed at \$125.

QUEEN ST. W., s.s., Geo. Warrington to Edward Whitney, 30x45, being south

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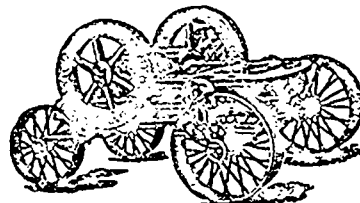
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1st lot 8, plan 418, block C, assessed at \$60.

RUSHOLME ROAD, w.s., Arthur J. Usband to Thos. Vallentyne, 33x147, being south part lot 84, plan 405D, assessed \$261.

GOLDEN AVE., e.s., Charles E. Horvake to John J. Irwin, 40x110, being 1st lot 30, plan 798; assessed for \$120.

WITHROW AVE., n.s., Wm. L. Ramity to Chas. Coatsworth, 112x50, being 1st lots 33 and 34, plan 578; assessed at \$500.

MAPLEWOOD AVE., s.s., John Mills to Charlotte McWilliams; 30x105, being 1st lot 9, block D, plan 326, assessed at \$45.

LOMBARD ST., s.s., S. C. Sweetnam to Jane Sweetnam, 26x90, being east half 1st lot 4, plan 9A, assessed at \$1,170.

HOWLAND AVE., e.s., Arthur S. Godard to Florence Goddard, 24x176, being 1st lot 21, plan 324, block B, assessed at \$360.

ST. CLARENS AVE, w.s., Thos. D. McGregor to Alice McGregor, 470x100, being lots 1, 2, south 40 feet of 3, 4, 5, 6, 8, 9 and 10, plan 1095, assessed at \$2,100.

BATHURST ST., w.s., George H. Clarke to Frederick W. Jarvis Estate, 1.6x129, being part lot 306, plan 574, assessed at \$563.

BATHURST ST., w.s., Wm. H. Thompson to Albert E. Henderson, 22.6x129, being part lot 306, plan 574, immediately south of above parcel, assessed at \$563.

BATHURST ST., w.s., Frederick W. Jarvis Estate to Albert E. Henderson, 22.6x129, being part lot 306, plan 574, assessed at \$563.

ARMSTRONG AVE., s.s., City of Toronto to Wm. Blackmore, 50x100, being 1st lot 37, plan 604, assessed at \$200.

LAKE SHORE ROAD (Queen street west), Wm. F. Ardaugh to Pauline V. Meyer, 30x660, being part water lot 35, assessed at \$210.

EUCLID AVE., w.s., Rev. Thomas Griffith to John Lobban, 28.6x125, being lot 6, plan 1,619, assessed at \$656.

FRANKISH AVE. n.s., City of Toronto to F. A. Berkinshaw, 9x68, being part lot 1, plan 256, assessed at \$72.

MANCHESTER AVE., n.s., Edith M. H. Poley to John Jones; same as preceding parcel.

DELAWARE AVE., e.s., Rev. Robert Wade to Joseph T. V. May, 33x146, being parts lots 9 and 10, block O, plan 329; assessed at \$330.

W. A. Brown is continuing the plumbing business in Vancouver, B.C., formerly carried on by Brown & Green.

A meeting of the creditors of Bates, Robinson & Co., plumbers, Toronto, was held on the 11th inst.

POINTS ON CEMENT.

W. R. Butler, C.E., Toronto, recently gave to the Canadian Society of Civil Engineers the following abstract of papers on cement, read before British engineering societies:

In the first paper, the importance of fineness of grinding is particularly emphasized, and its effect upon the cementitious value is discussed at some length; incidentally it is pointed out that fine grinding, as also the process of air slacking, both have the effect of reducing weight, and, in speaking of the value of weight as a criterion of quality, the author shows that insistence upon a certain standard weight may sometimes lead to the acceptance of a hot (or imperfectly air-slacked) cement, or of one of inferior fineness. Variations in the weight of samples of the same cement, weighed at different

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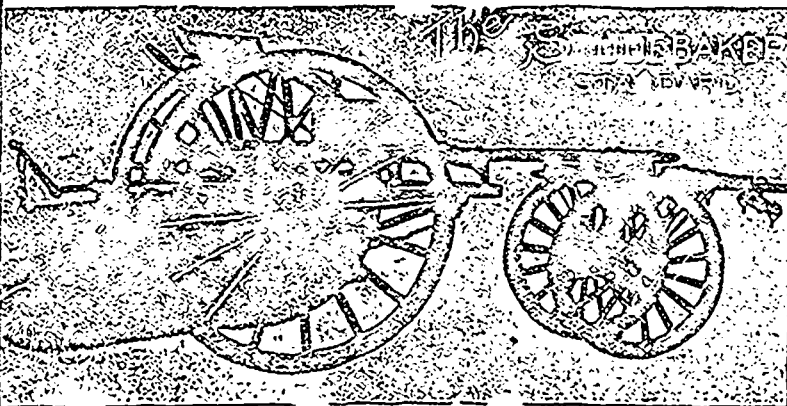
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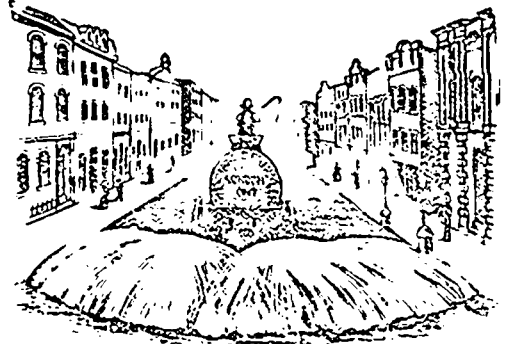
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ages, are given, as follows:

Age.	Weight per Bushel.
One day.....	117 lbs.
One month.....	113 "
Two months.....	108 "
Twelve months	103 "

And, as examples of variation in weight due to grinding to different degrees of fineness, the following are quoted: A cement leaving 10 per cent. residue in an 80 mesh sieve weighed 110 lbs. per bushel; one leaving 20 per cent. weighed 116 lbs.; one leaving 25 per cent. weighed 121 lbs., and one leaving 35 per cent. weighed 123 lbs.

The author considers that the chief value of chemical analysis, as capable of application by the average user of cement, lies in the easy detection, by its means, of the presence of sulphur, or magnesia, in dangerous quantity; beyond this, the tests which he regards as of the greatest practical importance are those for (1) Fineness; (2) Soundness; (3) Tensile strength. The economy is referred to of securing a finely ground cement rather than one containing a sensible proportion of a practically inert substance, or of particles the complete hydration of which, in the author's opinion, may be so long delayed as to endanger the integrity of the mass when this hydration finally takes place; at the same time the wisdom is questioned of pushing the demand for fineness to an extreme; firstly, because the manufacturers can meet the demand by using a softer clinker, and, secondly, because of the practical difficulties in the way of testing the exact ful-

filment of such demands. Not more than 10 per cent. residue, by weight, upon a 5-800 mesh sieve, is suggested as a sufficiently exacting test of fineness for practical purposes. The author's experience has given him the utmost confidence in the reliability of the "Prussian" or "Pat Test," in conjunction with "Fajja's Steam Test," as applied to Soundness. In discussing the value of tests of tensile strength, the quick development of strength which is exhibited by an over-limed cement is noticed, and an instance is quoted in which strengths of 330 pounds in water and 740 pounds in air were attained by a certain cement, after 28 days; the briquettes, however, afterwards suffered complete disintegration through subsequent hydration of free lime. The indication of real value, it is pointed out, is that of a fair induration after seven days; the exhibition, say, of a tensile strength of 350 or 400 pounds per square inch—with

an increase of strength of at least per cent in 28 days. Attention is called, in paper, to the effect, upon the apparent strength, of the rate at which the scale is loaded in the testing of briquettes; a slow loading from zero upwards generally leads to a lower "breaking weight" than if the test is begun with an initial loading, equivalent, say, to 100 pounds—it is the author's practice to begin with a load of 100 pounds applied in 15 seconds—examples of these variations are given. The difficulty is referred to of carrying out

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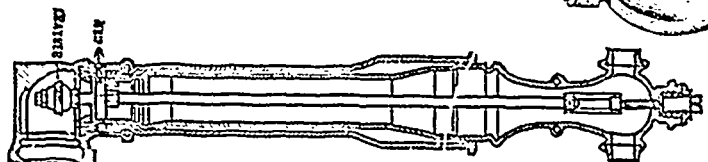
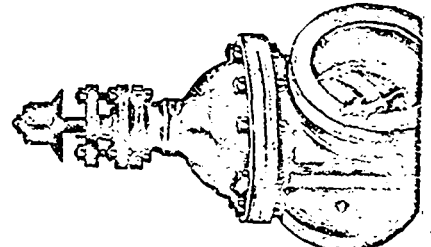
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"sand tests" in accordance with any standard, as sands of quite different character may each of them equally well fulfil almost any washing or sifting tests that can be applied to them. In the discussion upon the paper, however, the importance of the retention of the sand test was a good deal emphasized notwithstanding its difficulties, particularly as it might often serve to detect the presence of adulterants. The effect upon the tensile strength of the addition to the cement of diluents, such as pure sand, or Kentish rag, might be hardly perceptible until the further addition of sand had increased the total quantity of inert matter to a certain proportion, but after this proportion has been exceeded, the further addition of sand leads to a much more rapid reduction of strength than is shown by the same additions to an unadulterated cement. The addition of any adulterants, such as sand, slag, ragstone, etc., the author condemns most emphatically; he quotes instances showing the danger of the presence of slag in a cement which is to be used in damp situations, and it is also shown how the addition of such adulterants must of necessity lessen the cementitious value of the material which fills the interstitial spaces in a rightly proportioned aggregate. The presence of ragstone can be detected by its effervescence with hydrochloric acid, and by the dark green color of fracture in a briquette, when broken after immersion in water for seven days. A test for the presence of ragstone formulated by Mr. Yardley, analytical chemist, is given as under: "Place on a clean silver coin a thin layer of suspected cement, drop a small quantity of dilute H_2SO_4 on it [$H_2SO_4 + 7H_2O$], then rinse with water. If the cement is genuine, the treatment with acid will slightly affect the color of the silver, but if slag is in

strong proportion, a dark brown stain will be produced on the silver. In the discussion on this paper difference of opinion was expressed as to the relative order in importance of the three principal tests discussed by the author, viz., fineness, soundness and tensile strength, and also with respect to the best practical standard of fineness; a smaller residue upon a coarser sieve than a 5,800 mesh received some advocacy, say $2\frac{1}{2}$ per cent. residue upon a 2,500 mesh—the gauge of the wire also to be duly specified. It was generally agreed that tensile tests, to be truly satisfactory, ought to cover a long period, and ought to reveal a gradual and progressive induration.

The author of the other paper discussed the observed effects upon the time of setting of a cement, produced by the solution in the gauging water of such substances as soda, bicarbonate of soda, sugar, salt, and glycerine, in varying quantities. Soda was found to produce a marked acceleration in the setting, when added to the neat cement in the proportion of 1.44 per cent. The experiments were carried out with two different samples of cement, the chemical analysis of which are not, however, given; in the cases of both the effects were very similar. The time of setting was reduced, in the one case, from 9.5 minutes to half a minute, and in the other case from eight minutes to one minute; complete setting taking place in both cases in one hour and forty-eight minutes. As the quantity of soda was increased above 1.44 per cent., the setting in the case of both cements was retarded, though it was still more rapid than when pure water was used in gauging; all of the other above-mentioned ingredients had a decided effect in retarding the progress of setting. Experiments upon the effect of such additions upon the tensile

strength had, at the date of the paper, only extended over a period of 50 days; they showed a perceptible diminution in strength in the case of the soda briquettes, but a striking parallelism between the curves of induration (plotted to time ordinates), of the pure cement briquettes, and the soda briquettes, respectively. The great value, under some circumstances, of a reliable means of securing rapid setting, was commented upon in the discussion of the paper. The fact indicated by the experiments seem to be that the addition of a small percentage of soda to the gauging water will have a marked effect in the acceleration of the process of the setting of a cement; and, as many cements naturally contain a small quantity of soda, the quantity to be added to produce the best results will probably vary from $1\frac{1}{2}$ to $2\frac{1}{2}$ per cent.

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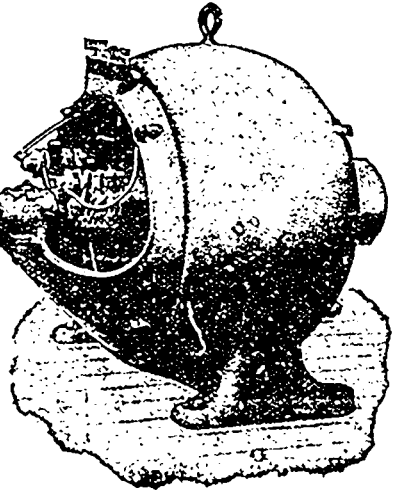
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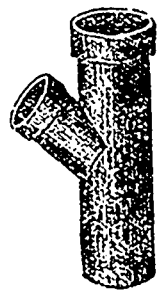
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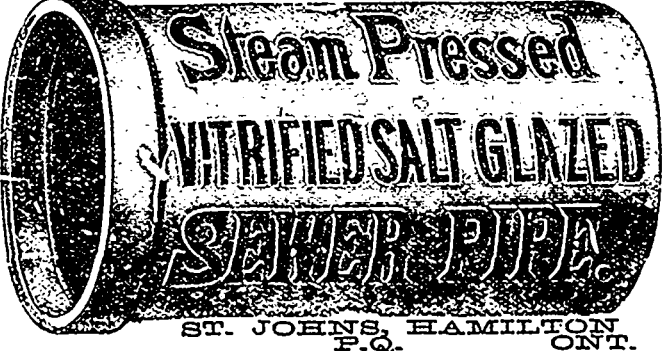
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Minns v. village of Omamec. This case came up in the Trial Court, Toronto. Judgment in action tried at Lindsay brought by a husband and wife to recover damages. The plaintiffs live in the village. The defendant Graham is a hotel-keeper on the corner of King and George streets, and left open and unprotected a hole in the sidewalk on George street connecting with his cellar. The female plaintiff fell into the hole and injured herself. Held, that the driver Lamb and the Ostler Charlie were acting within the scope of their employment and for the benefit of their master, the defendant Graham, when engaged in unloading and storing the cask of beer by means of opening the trap door covering the hole, and that their negligence in leaving it unprotected and without a light is attributable to the master, who is liable. *Whatman v. Pearson, L. R., 3 C. P. 412, see also Whitehead v. Reader, 1901, 2 Q. B. 48.* Held, also, as to the corporation that no act of negligence had been proved against it—the opening was not proved to have been used from time to time in such a way as to be dangerous whereby notice might be attributed to the corporation; and as long as the trap door was kept closed the street was in good condition, and no possible danger existed. The construction of the area or opening in the sidewalk was an act legalized by the Legislature, R.S.O., ch. 223, sec. 639, and no fault is alleged in its construction and maintenance; *Homewood v. City of Hamilton, 1 O. L. R. 266* distinguished, but assuming even that the case is conclusive against the corporation, it can only be so on the ground of omission, not commission. At the highest the blame is non-repair—an act of nonfeasance, not misfeasance, and thus regarded the act on is one which should be brought within three months after the damages have been sustained; secs. 606, 608. Here 8 months have elapsed, and time is pleaded. Upon the question of misfeasance and nonfeasance see *Lambert v. — (1901), 1 K.B., 500*, explaining dicta in *Sydney v. — (1895), A.C. 433*. As to village action dismissed with such costs as would be taxable had the objection been raised as

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a question of law presented to the court before the trial under rule 373. Judgment against defendant Graham for \$550 damages to female plaintiff, and \$230 damages to male plaintiff.

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By JOHN BRYE, A. M. I. C. E., BURGH ENGINEER, PATRICK.

It is impossible to give justice to this subject in a short introductory paper. To direct the discussion to the technical and working aspects of the subject, I have purposely left out all reference to the more scientific elements, such as the complex movements of sewer air, the composition of sewer gas, and the effects of temperature and wind on the ventilation of sewers. I am not aware that the subject has been discussed to any extent at any past congress of this association. In England, however, controversy and discussion on the subject has been raging more or less during the past 20 years, and it is admitted by the best judges that very little progress has been made. That a relation exists between sewer ventilation and the state of the public health is a matter on which there is considerable difference of opinion. The broad fact, however, that sewer gas is a strongly predisposing cause to outbreaks of zymotic diseases has never been denied, and must not be lost sight of. The improvement on the death-rate which cer-

*Read at the Congress of the Sanitary Association of Scotland held at Paisley, Sept., 1901

tain patentees of sewer ventilators have been careful to trumpet forth as due to the adoption of their apparatus should, in fact, be attributed to a variety of causes. Sanitary reform is improving our streets, house drains, and internal fittings simultaneously with any improvement effected on the ventilation of sewers; and it is the combination of all these reforms put together that should be credited with any improvement of the public health. Local authorities are obliged, under the Burgh Police Act, 1892, and the Public Health Act, 1897, to provide proper ventilation for sewers, and to keep them clean and free from nuisance. The framers of the 1892 Act evidently anticipated that steps would be taken by burgh authorities to ventilate sewers in the erection of tall shafts against buildings, and the utilization of factory stalks, provision being made to carry through these arrangements by the aid of the Lands Clauses Act, and to recover all costs incurred in improving ventilation from the general sewer rates. In the interests of the public health, however, the statute makers should go a step further and provide that local authorities have the power to fix sewer ventilators (if found necessary) to the walls of houses on the street line without compensation, but giving to the owners the right of fixing the position of the shaft.

(To be continued.)

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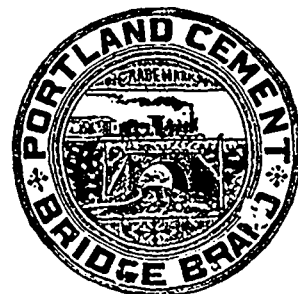
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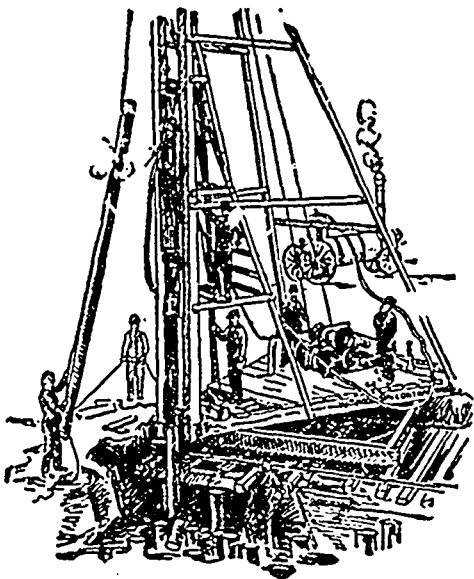
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